

GOMOS Daily Report 16-JUL-2010

Level 0 and Level 1 products

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This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM_TRA_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	20JUL2010 04:57:31
Data source version	GOMOS/5.01
Start time of products	16JUL2010 00:01:33
Stop time of products	16JUL2010 23:56:09
Store outputs in DB	Yes
Nb of level 1b prods	132
Nb of prods with errors	1

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

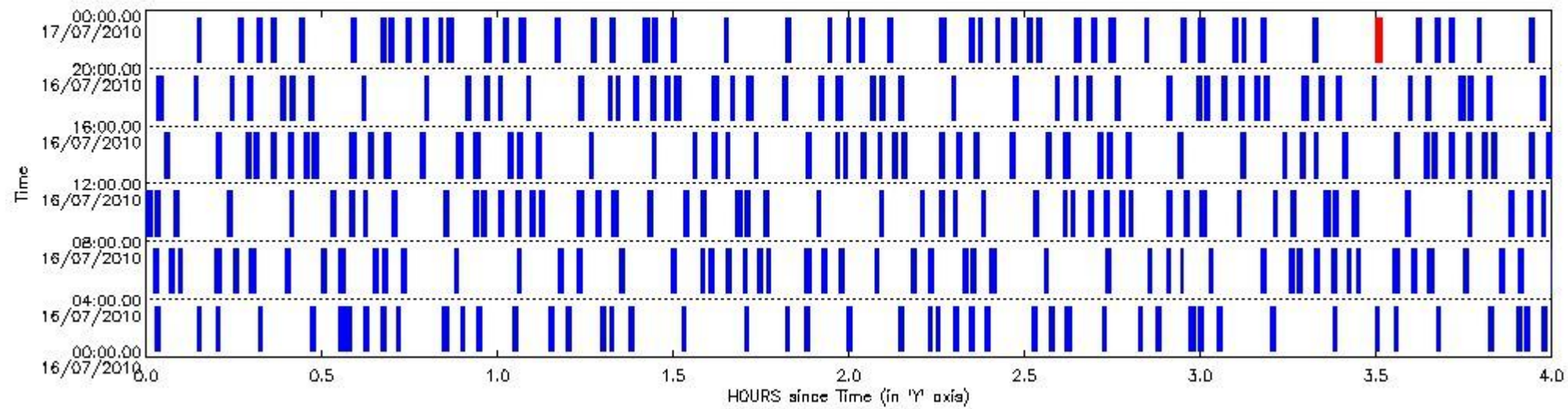
2.1 Level 0 products arrived in PCF (see template [here](#))

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
16-JUL-2010 23:30:01	17ZetAql	168	43800

2.4 Summary of processed GOM_TRA_1P products

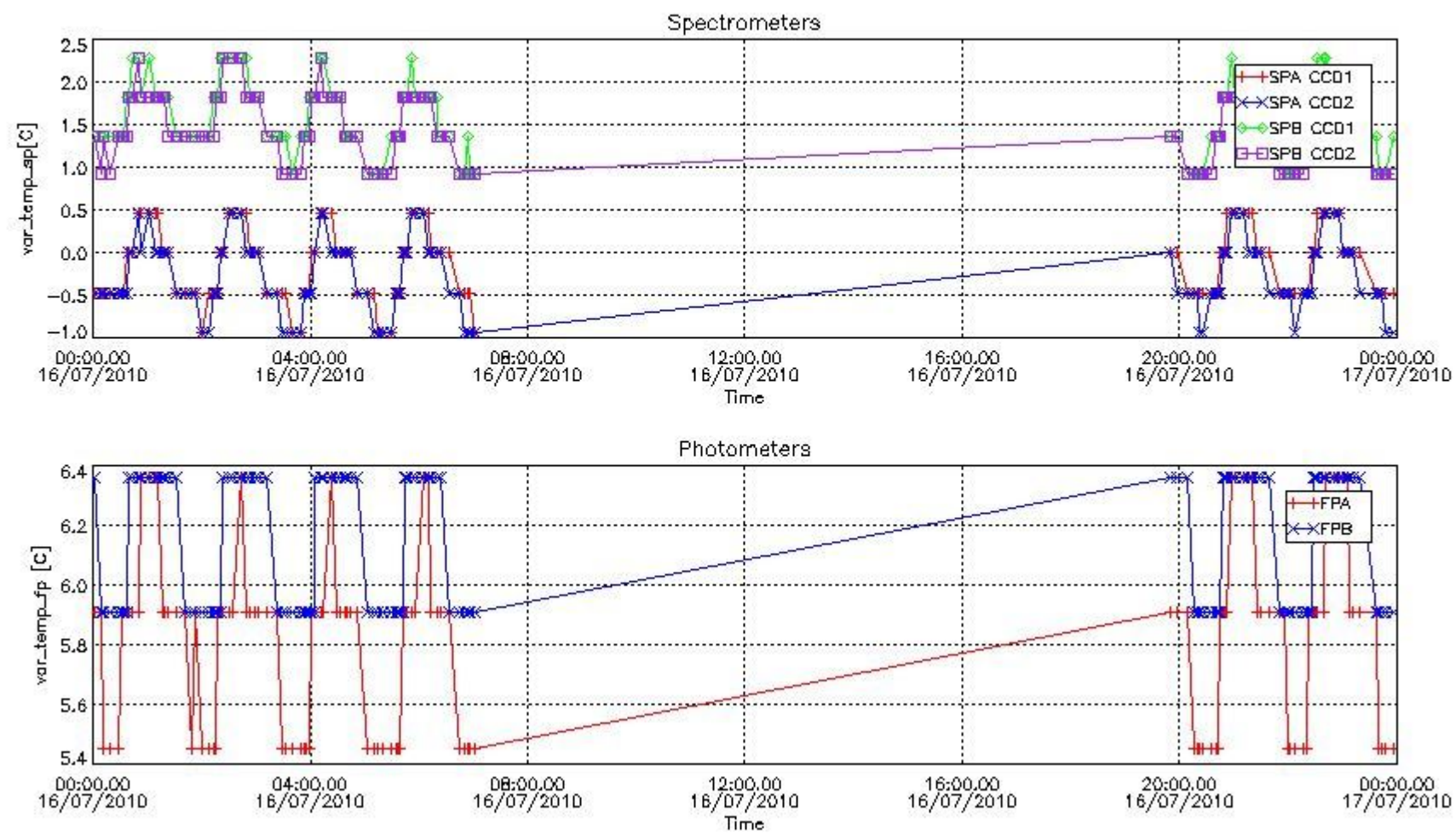
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20100716_000133_000000412091_00145_43786_7041.N1	16-JUL-2010 00:01:33	Bright	40.500	168	17Zet Aql	2.9860	11000.	81	43786	No
2	GOM_TRA_1PNPDE20100716_000837_000000412091_00145_43786_7042.N1	16-JUL-2010 00:08:37	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	43786	No
3	GOM_TRA_1PNPDE20100716_001152_000000422091_00145_43786_7043.N1	16-JUL-2010 00:11:52	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	43786	No
4	GOM_TRA_1PNPDE20100716_001904_000000452091_00145_43786_7044.N1	16-JUL-2010 00:19:04	Bright	45.000	89	5Alp Cep	2.4510	8000.0	90	43786	No
5	GOM_TRA_1PNPDE20100716_002753_000000492091_00145_43786_7045.N1	16-JUL-2010 00:27:53	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	43786	No
6	GOM_TRA_1PNPDE20100716_003254_000000612091_00145_43786_7046.N1	16-JUL-2010 00:32:54	Bright	61.000	160	23Gam Per	2.9300	4700.0	122	43786	No
7	GOM_TRA_1PNPDE20100716_003414_000000422091_00145_43786_7047.N1	16-JUL-2010 00:34:14	Bright	42.000	35	33Alp Per	1.7950	6250.0	84	43786	No
8	GOM_TRA_1PNPDE20100716_003711_000000452091_00145_43786_7048.N1	16-JUL-2010 00:37:11	Bright	45.000	79	26Bet Per	2.3100	13100.	90	43786	No
9	GOM_TRA_1PNPDE20100716_004003_000000442091_00145_43786_7049.N1	16-JUL-2010 00:40:03	Twilight	43.500	150	44Zet Per	2.8900	28000.	87	43786	No
10	GOM_TRA_1PNPDE20100716_004237_000000462091_00145_43786_7050.N1	16-JUL-2010 00:42:37	Twilight	45.500	146	25Eta Tau	2.8730	15200.	91	43786	No

11	GOM_TRA_1PNPDE20100716_005032_000000602091_00145_43786_7051.N1	16-JUL-2010 00:50:32	Dark	60.000	94	92Alp Cet	2.5260	3100.0	120	43786	No
12	GOM_TRA_1PNPDE20100716_005336_000000432091_00145_43786_7073.N1	16-JUL-2010 00:53:36	Dark	42.500	165	34Gam Eri	2.9500	3200.0	85	43786	Yes
13	GOM_TRA_1PNPDE20100716_010235_000000402091_00145_43786_7074.N1	16-JUL-2010 01:02:35	Dark	40.000	157	The1Eri	2.9060	9300.0	80	43786	No
14	GOM_TRA_1PNPDE20100716_010844_000000532091_00146_43787_7075.N1	16-JUL-2010 01:08:44	Dark	53.000	9	Alp Eri	0.45300	24000.	106	43787	No
15	GOM_TRA_1PNPDE20100716_011141_000000512091_00146_43787_7076.N1	16-JUL-2010 01:11:41	Dark	51.000	84	Alp Phe	2.3970	4500.0	102	43787	No
16	GOM_TRA_1PNPDE20100716_011729_000000582091_00146_43787_7077.N1	16-JUL-2010 01:17:29	Straylight	58.000	63	Bet Gru	2.1500	2800.0	116	43787	No
17	GOM_TRA_1PNPDE20100716_011905_000000462091_00146_43787_7078.N1	16-JUL-2010 01:19:05	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	43787	No
18	GOM_TRA_1PNPDE20100716_012218_000000552091_00146_43787_7079.N1	16-JUL-2010 01:22:18	Straylight	55.000	172	Gam Gru	3.0030	13100.	110	43787	No
19	GOM_TRA_1PNPDE20100716_013128_000000412091_00146_43787_7080.N1	16-JUL-2010 01:31:28	Bright	40.500	155	41Pi Sgr	2.9000	6600.0	81	43787	No
20	GOM_TRA_1PNPDE20100716_014208_000000392091_00146_43787_7081.N1	16-JUL-2010 01:42:08	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	43787	No
21	GOM_TRA_1PNPDE20100716_014912_000000372091_00146_43787_7082.N1	16-JUL-2010 01:49:12	Bright	36.500	5	3Alp Lyr	0.033000	11000.	73	43787	No
22	GOM_TRA_1PNPDE20100716_015227_000000422091_00146_43787_7083.N1	16-JUL-2010 01:52:27	Bright	41.500	144	18Del Cyg	2.8600	11000.	83	43787	No
23	GOM_TRA_1PNPDE20100716_015939_000000442091_00146_43787_7084.N1	16-JUL-2010 01:59:39	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43787	No
24	GOM_TRA_1PNPDE20100716_020829_000000502091_00146_43787_7085.N1	16-JUL-2010 02:08:29	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	43787	No
25	GOM_TRA_1PNPDE20100716_021329_000000442091_00146_43787_7086.N1	16-JUL-2010 02:13:29	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	43787	No
26	GOM_TRA_1PNPDE20100716_021450_000000442091_00146_43787_7087.N1	16-JUL-2010 02:14:50	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	43787	No
27	GOM_TRA_1PNPDE20100716_021747_000000482091_00146_43787_7088.N1	16-JUL-2010 02:17:47	Bright	47.500	79	26Bet Per	2.3100	13100.	95	43787	No
28	GOM_TRA_1PNPDE20100716_022039_000000432091_00146_43787_7089.N1	16-JUL-2010 02:20:39	Tw_i_and_stray	42.500	150	44Zet Per	2.8900	28000.	85	43787	No
29	GOM_TRA_1PNPDE20100716_022313_000000442091_00146_43787_7090.N1	16-JUL-2010 02:23:13	Twilight	43.500	146	25Eta Tau	2.8730	15200.	87	43787	No
30	GOM_TRA_1PNPDE20100716_023109_000000552091_00146_43787_7091.N1	16-JUL-2010 02:31:09	Dark	54.500	94	92Alp Cet	2.5260	3100.0	109	43787	No
31	GOM_TRA_1PNPDE20100716_023412_000000462091_00146_43787_7092.N1	16-JUL-2010 02:34:12	Dark	45.500	165	34Gam Eri	2.9500	3200.0	91	43787	No
32	GOM_TRA_1PNPDE20100716_024312_000000432091_00146_43787_7093.N1	16-JUL-2010 02:43:12	Dark	43.000	157	The1Eri	2.9060	9300.0	86	43787	No
33	GOM_TRA_1PNPDE20100716_024921_000000422091_00147_43788_7094.N1	16-JUL-2010 02:49:21	Dark	42.000	9	Alp Eri	0.45300	24000.	84	43788	No
34	GOM_TRA_1PNPDE20100716_025218_000000522091_00147_43788_7095.N1	16-JUL-2010 02:52:18	Dark	52.000	84	Alp Phe	2.3970	4500.0	104	43788	No
35	GOM_TRA_1PNPDE20100716_025806_000000562091_00147_43788_7096.N1	16-JUL-2010 02:58:06	Straylight	56.000	63	Bet Gru	2.1500	2800.0	112	43788	No
36	GOM_TRA_1PNPDE20100716_025942_000000512091_00147_43788_7097.N1	16-JUL-2010 02:59:42	Straylight	50.500	31	Alp Gru	1.7340	15200.	101	43788	No
37	GOM_TRA_1PNPDE20100716_030255_000000522091_00147_43788_7098.N1	16-JUL-2010 03:02:55	Straylight	51.500	172	Gam Gru	3.0030	13100.	103	43788	No
38	GOM_TRA_1PNPDE20100716_031204_000000412091_00147_43788_7099.N1	16-JUL-2010 03:12:04	Bright	40.500	155	41Pi Sgr	2.9000	6600.0	81	43788	No
39	GOM_TRA_1PNPDE20100716_032244_000000372091_00147_43788_7100.N1	16-JUL-2010 03:22:44	Bright	37.000	168	17Zet Aql	2.9860	11000.	74	43788	No
40	GOM_TRA_1PNPDE20100716_032948_000000432091_00147_43788_7101.N1	16-JUL-2010 03:29:48	Bright	42.500	5	3Alp Lyr	0.033000	11000.	85	43788	No
41	GOM_TRA_1PNPDE20100716_033303_000000412091_00147_43788_7102.N1	16-JUL-2010 03:33:03	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	43788	No
42	GOM_TRA_1PNPDE20100716_034015_000000442091_00147_43788_7104.N1	16-JUL-2010 03:40:15	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43788	No
43	GOM_TRA_1PNPDE20100716_034904_000000492091_00147_43788_7105.N1	16-JUL-2010 03:49:04	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	43788	No
44	GOM_TRA_1PNPDE20100716_035405_000000412091_00147_43788_7106.N1	16-JUL-2010 03:54:05	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	43788	No
45	GOM_TRA_1PNPDE20100716_035526_000000422091_00147_43788_7107.N1	16-JUL-2010 03:55:26	Bright	41.500	35	33Alp Per	1.7950	6250.0	83	43788	No
46	GOM_TRA_1PNPDE20100716_035823_000000492091_00147_43788_7108.N1	16-JUL-2010 03:58:23	Bright	49.000	79	26Bet Per	2.3100	13100.	98	43788	No
47	GOM_TRA_1PNPDE20100716_040115_000000442091_00147_43788_7109.N1	16-JUL-2010 04:01:15	Tw_i_and_stray	44.000	150	44Zet Per	2.8900	28000.	88	43788	No
48	GOM_TRA_1PNPDE20100716_040349_000000462091_00147_43788_7110.N1	16-JUL-2010 04:03:49	Twilight	45.500	146	25Eta Tau	2.8730	15200.	91	43788	No
49	GOM_TRA_1PNPDE20100716_040524_000000462091_00147_43788_7111.N1	16-JUL-2010 04:05:24	Twilight	46.000	13	87Alp Tau	0.86700	3800.0	92	43788	No
50	GOM_TRA_1PNPDE20100716_041145_000000612091_00147_43788_7112.N1	16-JUL-2010 04:11:45	Dark	61.000	94	92Alp Cet	2.5260	3100.0	122	43788	No
51	GOM_TRA_1PNPDE20100716_041449_000000542091_00147_43788_7113.N1	16-JUL-2010 04:14:49	Dark	54.000	165	34Gam Eri	2.9500	3200.0	108	43788	No
52	GOM_TRA_1PNPDE20100716_042349_000000422091_00147_43788_7114.N1	16-JUL-2010 04:23:49	Dark	42.000	157	The1Eri	2.9060	9300.0	84	43788	No
53	GOM_TRA_1PNPDE20100716_042957_000000432091_00148_43789_7115.N1	16-JUL-2010 04:29:57	Dark	42.500	9	Alp Eri	0.45300	24000.	85	43789	No
54	GOM_TRA_1PNPDE20100716_043255_000000532091_00148_43789_7116.N1	16-JUL-2010 04:32:55	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	43789	No
55	GOM_TRA_1PNPDE20100716_043843_000000532091_00148_43789_7117.N1	16-JUL-2010 04:38:43	Straylight	53.000	63	Bet Gru	2.1500	2800.0	106	43789	No
56	GOM_TRA_1PNPDE20100716_044019_000000502091_00148_43789_7118.N1	16-JUL-2010 04:40:19	Straylight	49.500	31	Alp Gru	1.7340	15200.	99	43789	No
57	GOM_TRA_1PNPDE20100716_044332_000000502091_00148_43789_7119.N1	16-JUL-2010 04:43:32	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	43789	No
58	GOM_TRA_1PNPDE20100716_045240_000000402091_00148_43789_7120.N1	16-JUL-2010 04:52:40	Bright	39.500	155	41Pi Sgr	2.9000	6600.0	79	43789	No
59	GOM_TRA_1PNPDE20100716_050320_000000392091_00148_43789_7121.N1	16-JUL-2010 05:03:20	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	43789	No
60	GOM_TRA_1PNPDE20100716_051024_000000392091_00148_43789_7122.N1	16-JUL-2010 05:10:24	Bright	38.500	5	3Alp Lyr	0.033000	11000.	77	43789	No
61	GOM_TRA_1PNPDE20100716_051338_000000412091_00148_43789_7123.N1	16-JUL-2010 05:13:38	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	43789	No
62	GOM_TRA_1PNPDE20100716_052050_000000442091_00148_43789_7124.N1	16-JUL-2010 05:20:50	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43789	No
63	GOM_TRA_1PNPDE20100716_052940_000000482091_00148_43789_7137.N1	16-JUL-2010 05:29:40	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	43789	No
64	GOM_TRA_1PNPDE20100716_053441_000000432091_00148_43789_7138.N1	16-JUL-2010 05:34:41	Bright	42.500	160	23Gam Per	2.9300	4700.0	85	43789	No
65	GOM_TRA_1PNPDE20100716_053602_000000442091_00148_43789_7139.N1	16-JUL-2010 05:36:02	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	43789	No
66	GOM_TRA_1PNPDE20100716_053859_000000452091_00148_43789_7140.N1	16-JUL-2010 05:38:59	Bright	44.500	79	26Bet Per	2.3100	13100.	89	43789	No
67	GOM_TRA_1PNPDE20100716_054151_000000452091_00148_43789_7141.N1	16-JUL-2010 05:41:51	Tw_i_and_stray	45.000	150	44Zet Per	2.8900	28000.	90	43789	No
68	GOM_TRA_1PNPDE20100716_054426_000000412091_00148_43789_7142.N1	16-JUL-2010 05:44:26	Twilight	40.500	146	25Eta Tau	2.8730	15200.	81	43789	No
69	GOM_TRA_1PNPDE20100716_054600_000000382091_00148_43789_7143.N1	16-JUL-2010 05:46:00	Twilight	38.000	13	87Alp Tau	0.86700	3800.0	76	43789	No

70	GOM_TRA_1PNPDE20100716_055222_000000602091_00148_43789_7144.N1	16-JUL-2010 05:52:22	Dark	60.000	94	92Alp Cet	2.5260	3100.0	120	43789	No
71	GOM_TRA_1PNPDE20100716_055526_000000472091_00148_43789_7145.N1	16-JUL-2010 05:55:26	Dark	46.500	165	34Gam Eri	2.9500	3200.0	93	43789	No
72	GOM_TRA_1PNPDE20100716_060425_000000422091_00148_43789_7146.N1	16-JUL-2010 06:04:25	Dark	41.500	157	The1Eri	2.9060	9300.0	83	43789	No
73	GOM_TRA_1PNPDE20100716_061034_000000462091_00149_43790_7147.N1	16-JUL-2010 06:10:34	Dark	45.500	9	Alp Eri	0.45300	24000.	91	43790	No
74	GOM_TRA_1PNPDE20100716_061332_000000532091_00149_43790_7148.N1	16-JUL-2010 06:13:32	Dark	53.000	84	Alp Phe	2.3970	4500.0	106	43790	No
75	GOM_TRA_1PNPDE20100716_061919_000000542091_00149_43790_7149.N1	16-JUL-2010 06:19:19	Straylight	54.000	63	Bet Gru	2.1500	2800.0	108	43790	No
76	GOM_TRA_1PNPDE20100716_062055_000000482091_00149_43790_7150.N1	16-JUL-2010 06:20:55	Straylight	48.000	31	Alp Gru	1.7340	15200.	96	43790	No
77	GOM_TRA_1PNPDE20100716_062408_000000532091_00149_43790_7151.N1	16-JUL-2010 06:24:08	Straylight	52.500	172	Gam Gru	3.0030	13100.	105	43790	No
78	GOM_TRA_1PNPDE20100716_063317_000000402091_00149_43790_7152.N1	16-JUL-2010 06:33:17	Bright	39.500	155	41Pi Sgr	2.9000	6600.0	79	43790	No
79	GOM_TRA_1PNPDE20100716_064356_000000402091_00149_43790_7153.N1	16-JUL-2010 06:43:56	Bright	39.500	168	17Zet Aql	2.9860	11000.	79	43790	No
80	GOM_TRA_1PNPDE20100716_065059_000000432091_00149_43790_7154.N1	16-JUL-2010 06:50:59	Bright	43.000	5	3Alp Lyr	0.033000	11000.	86	43790	No
81	GOM_TRA_1PNPDE20100716_065414_000000412091_00149_43790_7155.N1	16-JUL-2010 06:54:14	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	43790	No
82	GOM_TRA_1PNPDE20100716_065634_000000282091_00149_43790_7156.N1	16-JUL-2010 06:56:34	Twilight	28.000	19	50Alp Cyg	1.2460	10500.	56	43790	No
83	GOM_TRA_1PNPDE20100716_070125_000000432091_00149_43790_7157.N1	16-JUL-2010 07:01:25	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	43790	No
84	GOM_TRA_1PNPDE20100716_194902_000000502091_00157_43798_7236.N1	16-JUL-2010 19:49:02	Straylight	50.000	172	Gam Gru	3.0030	13100.	100	43798	No
85	GOM_TRA_1PNPDE20100716_195805_000000402091_00157_43798_7237.N1	16-JUL-2010 19:58:05	Bright	40.000	155	41Pi Sgr	2.9000	6600.0	80	43798	No
86	GOM_TRA_1PNPDE20100716_200842_000000392091_00157_43798_7238.N1	16-JUL-2010 20:08:42	Bright	39.000	168	17Zet Aql	2.9860	11000.	78	43798	No
87	GOM_TRA_1PNPDE20100716_201545_000000402091_00157_43798_7239.N1	16-JUL-2010 20:15:45	Bright	39.500	5	3Alp Lyr	0.033000	11000.	79	43798	No
88	GOM_TRA_1PNPDE20100716_201857_000000412091_00157_43798_7240.N1	16-JUL-2010 20:18:57	Bright	40.500	144	18Del Cyg	2.8600	11000.	81	43798	No
89	GOM_TRA_1PNPDE20100716_202115_000000472091_00157_43798_7241.N1	16-JUL-2010 20:21:15	Bright	47.000	19	50Alp Cyg	1.2460	10500.	94	43798	No
90	GOM_TRA_1PNPDE20100716_202608_000000432091_00157_43798_7242.N1	16-JUL-2010 20:26:08	Bright	43.000	89	5Alp Cep	2.4510	8000.0	86	43798	No
91	GOM_TRA_1PNPDE20100716_203458_000000482091_00157_43798_7243.N1	16-JUL-2010 20:34:58	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	43798	No
92	GOM_TRA_1PNPDE20100716_204003_000000442091_00157_43798_7244.N1	16-JUL-2010 20:40:03	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	43798	No
93	GOM_TRA_1PNPDE20100716_204124_000000432091_00157_43798_7245.N1	16-JUL-2010 20:41:24	Bright	42.500	35	33Alp Per	1.7950	6250.0	85	43798	No
94	GOM_TRA_1PNPDE20100716_204422_000000442091_00157_43798_7246.N1	16-JUL-2010 20:44:22	Bright	44.000	79	26Bet Per	2.3100	13100.	88	43798	No
95	GOM_TRA_1PNPDE20100716_204716_000000442091_00157_43798_7247.N1	16-JUL-2010 20:47:16	Twilight	43.500	150	44Zet Per	2.8900	28000.	87	43798	No
96	GOM_TRA_1PNPDE20100716_204951_000000452091_00157_43798_7248.N1	16-JUL-2010 20:49:51	Twilight	45.000	146	25Eta Tau	2.8730	15200.	90	43798	No
97	GOM_TRA_1PNPDE20100716_205126_000000542091_00157_43798_7249.N1	16-JUL-2010 20:51:26	Twilight	53.500	13	87Alp Tau	0.86700	3800.0	107	43798	No
98	GOM_TRA_1PNPDE20100716_205753_000000592091_00157_43798_7258.N1	16-JUL-2010 20:57:53	Dark	58.500	94	92Alp Cet	2.5260	3100.0	117	43798	No
99	GOM_TRA_1PNPDE20100716_210054_000000482091_00157_43798_7259.N1	16-JUL-2010 21:00:54	Dark	48.000	165	34Gam Eri	2.9500	3200.0	96	43798	No
100	GOM_TRA_1PNPDE20100716_210955_000000402091_00157_43798_7260.N1	16-JUL-2010 21:09:55	Dark	40.000	157	The1Eri	2.9060	9300.0	80	43798	No
101	GOM_TRA_1PNPDE20100716_211603_000000422091_00158_43799_7261.N1	16-JUL-2010 21:16:03	Dark	41.500	9	Alp Eri	0.45300	24000.	83	43799	No
102	GOM_TRA_1PNPDE20100716_211906_000000542091_00158_43799_7262.N1	16-JUL-2010 21:19:06	Dark	54.000	84	Alp Phe	2.3970	4500.0	108	43799	No
103	GOM_TRA_1PNPDE20100716_212450_000000622091_00158_43799_7263.N1	16-JUL-2010 21:24:50	Straylight	62.000	63	Bet Gru	2.1500	2800.0	124	43799	No
104	GOM_TRA_1PNPDE20100716_212625_000000552091_00158_43799_7264.N1	16-JUL-2010 21:26:25	Straylight	55.000	31	Alp Gru	1.7340	15200.	110	43799	No
105	GOM_TRA_1PNPDE20100716_212938_000000512091_00158_43799_7265.N1	16-JUL-2010 21:29:38	Straylight	50.500	172	Gam Gru	3.0030	13100.	101	43799	No
106	GOM_TRA_1PNPDE20100716_213841_000000392091_00158_43799_7266.N1	16-JUL-2010 21:38:41	Bright	39.000	155	41Pi Sgr	2.9000	6600.0	78	43799	No
107	GOM_TRA_1PNPDE20100716_214918_000000392091_00158_43799_7267.N1	16-JUL-2010 21:49:18	Bright	38.500	168	17Zet Aql	2.9860	11000.	77	43799	No
108	GOM_TRA_1PNPDE20100716_215621_000000412091_00158_43799_7268.N1	16-JUL-2010 21:56:21	Bright	40.500	5	3Alp Lyr	0.033000	11000.	81	43799	No
109	GOM_TRA_1PNPDE20100716_215932_000000412091_00158_43799_7269.N1	16-JUL-2010 21:59:32	Bright	41.000	144	18Del Cyg	2.8600	11000.	82	43799	No
110	GOM_TRA_1PNPDE20100716_220150_000000472091_00158_43799_7270.N1	16-JUL-2010 22:01:50	Bright	47.000	19	50Alp Cyg	1.2460	10500.	94	43799	No
111	GOM_TRA_1PNPDE20100716_220643_000000442091_00158_43799_7271.N1	16-JUL-2010 22:06:43	Bright	44.000	89	5Alp Cep	2.4510	8000.0	88	43799	No
112	GOM_TRA_1PNPDE20100716_221533_000000502091_00158_43799_7272.N1	16-JUL-2010 22:15:33	Bright	49.500	76	27Gam Cas	2.3000	30000.	99	43799	No
113	GOM_TRA_1PNPDE20100716_222039_000000412091_00158_43799_7273.N1	16-JUL-2010 22:20:39	Bright	41.000	160	23Gam Per	2.9300	4700.0	82	43799	No
114	GOM_TRA_1PNPDE20100716_222200_000000442091_00158_43799_7274.N1	16-JUL-2010 22:22:00	Bright	43.500	35	33Alp Per	1.7950	6250.0	87	43799	No
115	GOM_TRA_1PNPDE20100716_222458_000000472091_00158_43799_7275.N1	16-JUL-2010 22:24:58	Bright	47.000	79	26Bet Per	2.3100	13100.	94	43799	No
116	GOM_TRA_1PNPDE20100716_222752_000000452091_00158_43799_7276.N1	16-JUL-2010 22:27:52	Twilight	44.500	150	44Zet Per	2.8900	28000.	89	43799	No
117	GOM_TRA_1PNPDE20100716_223027_000000472091_00158_43799_7277.N1	16-JUL-2010 22:30:27	Twilight	46.500	146	25Eta Tau	2.8730	15200.	93	43799	No
118	GOM_TRA_1PNPDE20100716_223202_000000502091_00158_43799_7278.N1	16-JUL-2010 22:32:02	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	43799	No
119	GOM_TRA_1PNPDE20100716_223829_000000632091_00158_43799_7279.N1	16-JUL-2010 22:38:29	Dark	63.000	94	92Alp Cet	2.5260	3100.0	126	43799	No
120	GOM_TRA_1PNPDE20100716_224130_000000462091_00158_43799_7280.N1	16-JUL-2010 22:41:30	Dark	45.500	165	34Gam Eri	2.9500	3200.0	91	43799	No
121	GOM_TRA_1PNPDE20100716_225031_000000412091_00158_43799_7282.N1	16-JUL-2010 22:50:31	Dark	41.000	157	The1Eri	2.9060	9300.0	82	43799	No
122	GOM_TRA_1PNPDE20100716_225639_000000502091_00159_43800_7283.N1	16-JUL-2010 22:56:39	Dark	49.500	9	Alp Eri	0.45300	24000.	99	43800	No
123	GOM_TRA_1PNPDE20100716_225942_000000582091_00159_43800_7284.N1	16-JUL-2010 22:59:42	Dark	58.000	84	Alp Phe	2.3970	4500.0	116	43800	No
124	GOM_TRA_1PNPDE20100716_230527_000000622091_00159_43800_7285.N1	16-JUL-2010 23:05:27	Straylight	61.500	63	Bet Gru	2.1500	2800.0	123	43800	No
125	GOM_TRA_1PNPDE20100716_230702_000000462091_00159_43800_7286.N1	16-JUL-2010 23:07:02	Straylight	45.500	31	Alp Gru	1.7340	15200.	91	43800	No
126	GOM_TRA_1PNPDE20100716_231015_000000512091_00159_43800_7287.N1	16-JUL-2010 23:10:15	Straylight	51.000	172	Gam Gru	3.0030	13100.	102	43800	No
127	GOM_TRA_1PNPDE20100716_231917_000000402091_00159_43800_7288.N1	16-JUL-2010 23:19:17	Bright	40.000	155	41Pi Sgr	2.9000	6600.0	80	43800	No
128	GOM_TRA_1PNPDE20100716_233657_000000422091_00159_43800_7289.N1	16-JUL-2010 23:36:57	Bright	41.500	5	3Alp Lyr	0.033000	11000.	83	43800	No

129	GOM_TRA_1PNPDE20100716_234008_000000422091_00159_43800_7290.N1	16-JUL-2010 23:40:08	Bright	42.000	144	18Del Cyg	2.8600	11000.	84	43800	No
130	GOM_TRA_1PNPDE20100716_234225_000000472091_00159_43800_7291.N1	16-JUL-2010 23:42:25	Bright	46.500	19	50Alp Cyg	1.2460	10500.	93	43800	No
131	GOM_TRA_1PNPDE20100716_234718_000000412091_00159_43800_7292.N1	16-JUL-2010 23:47:18	Bright	41.000	89	5Alp Cep	2.4510	8000.0	82	43800	No
132	GOM_TRA_1PNPDE20100716_235609_000000492091_00159_43800_7293.N1	16-JUL-2010 23:56:09	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	43800	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).

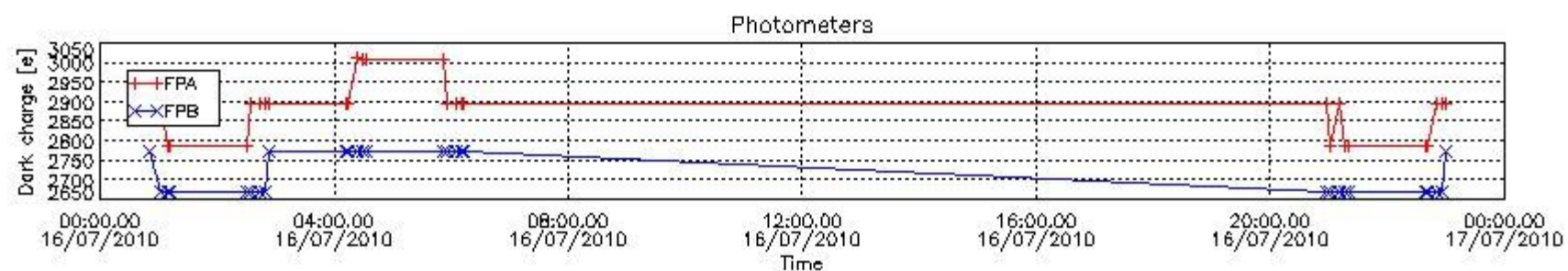
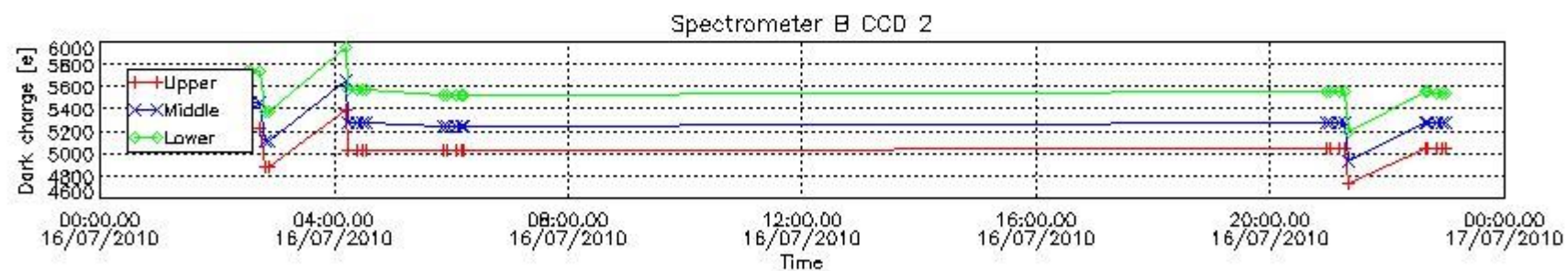
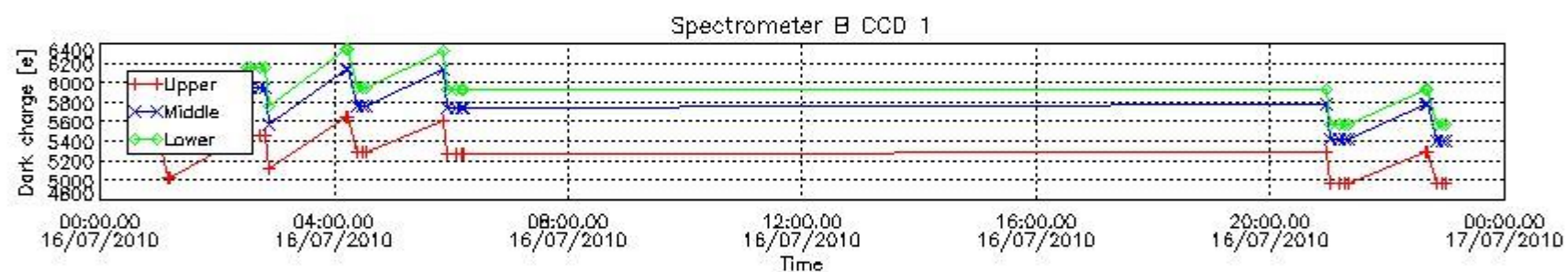
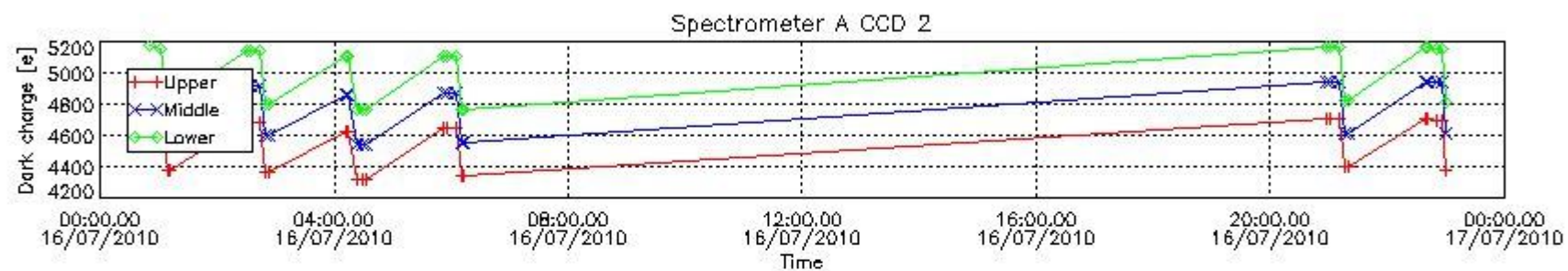
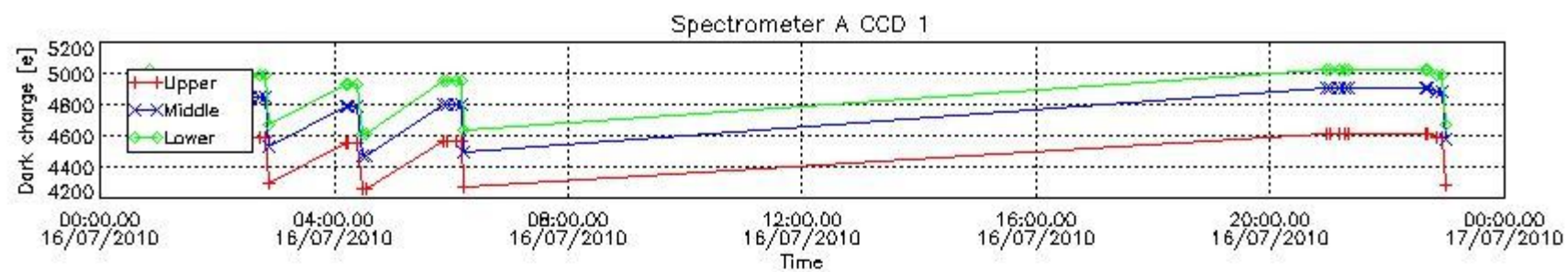
In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100716_194902_000000502091_00157_43798_7236.N1	DC map used
GOM_TRA_1PNPDE20100716_195805_000000402091_00157_43798_7237.N1	DC map used
GOM_TRA_1PNPDE20100716_200842_000000392091_00157_43798_7238.N1	DC map used
GOM_TRA_1PNPDE20100716_201545_000000402091_00157_43798_7239.N1	DC map used
GOM_TRA_1PNPDE20100716_201857_000000412091_00157_43798_7240.N1	DC map used
GOM_TRA_1PNPDE20100716_202115_000000472091_00157_43798_7241.N1	DC map used

GOM_TRA_1PNPDE20100716_202608_000000432091_00157_43798_7242.N1	DC map used
GOM_TRA_1PNPDE20100716_203458_000000482091_00157_43798_7243.N1	DC map used
GOM_TRA_1PNPDE20100716_204003_000000442091_00157_43798_7244.N1	DC map used
GOM_TRA_1PNPDE20100716_204124_000000432091_00157_43798_7245.N1	DC map used
GOM_TRA_1PNPDE20100716_204422_000000442091_00157_43798_7246.N1	DC map used
GOM_TRA_1PNPDE20100716_204716_000000442091_00157_43798_7247.N1	DC map used
GOM_TRA_1PNPDE20100716_204951_000000452091_00157_43798_7248.N1	DC map used
GOM_TRA_1PNPDE20100716_205126_000000542091_00157_43798_7249.N1	DC map used

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



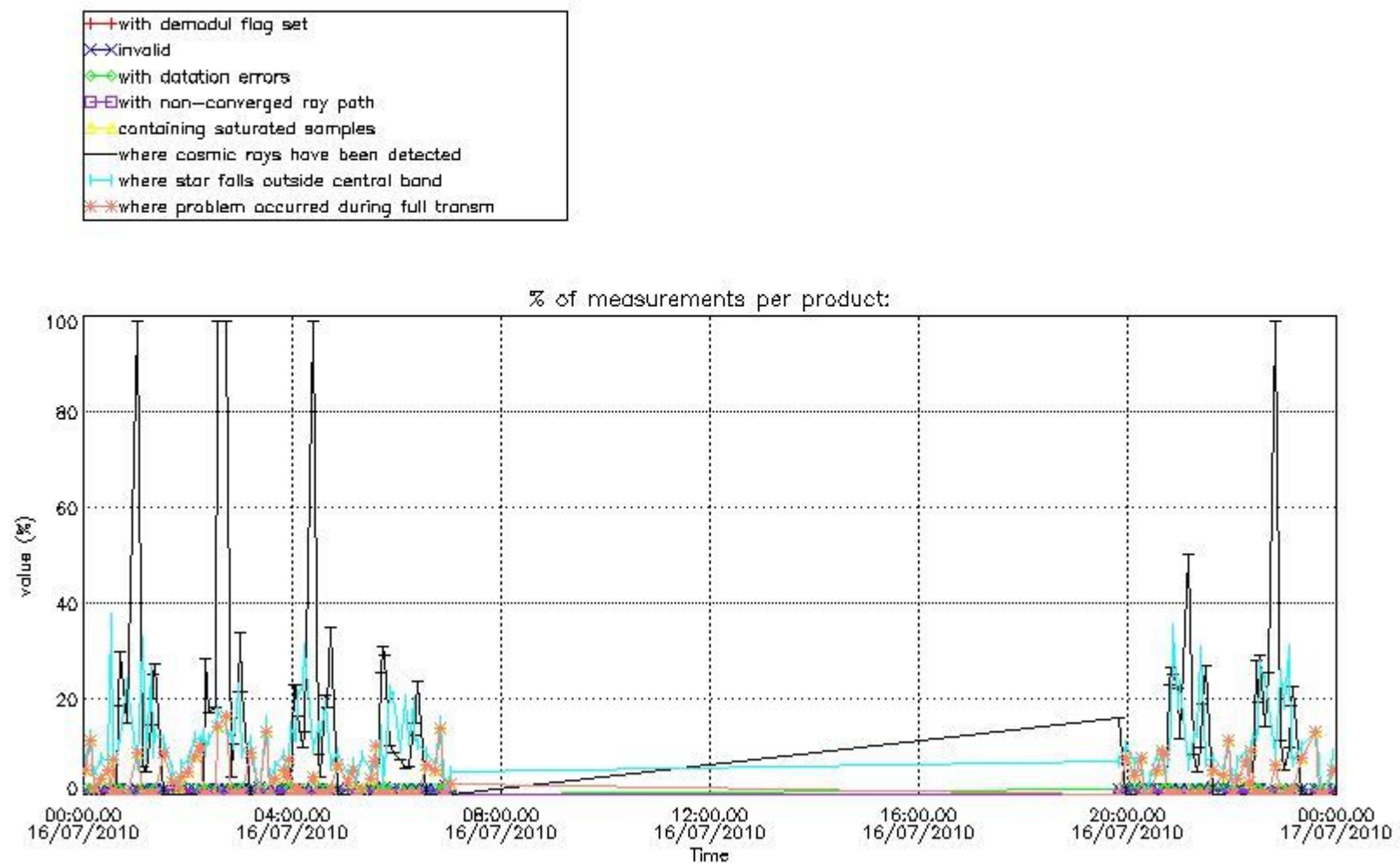
5. Demodulation flag and quality information monitoring

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.

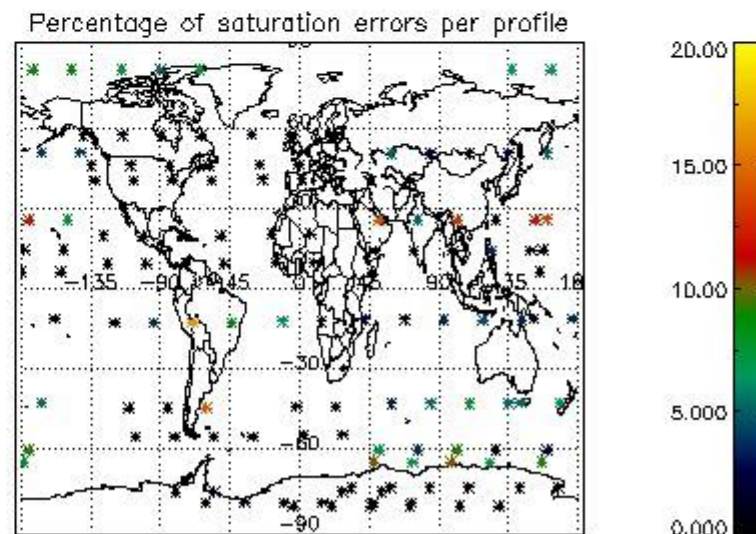
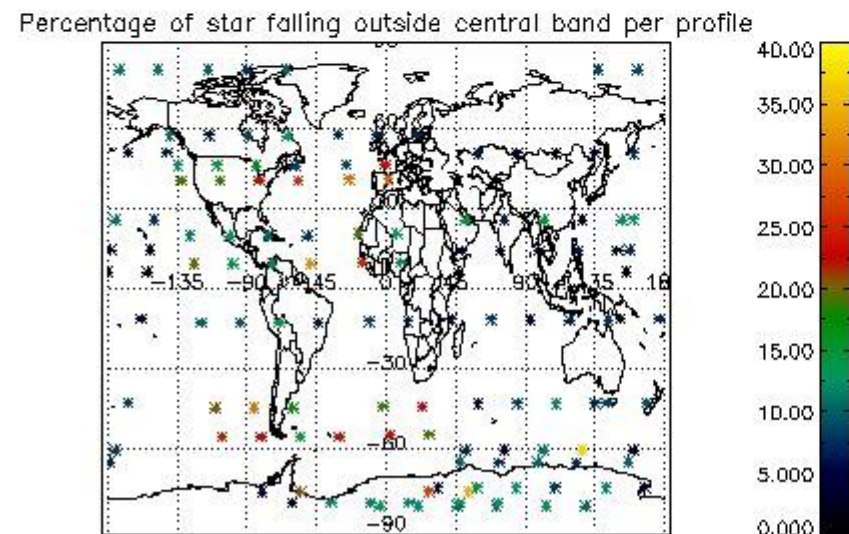
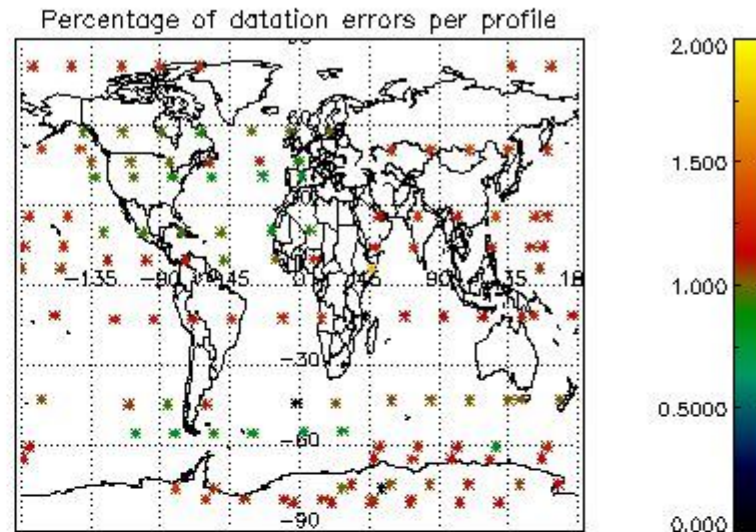
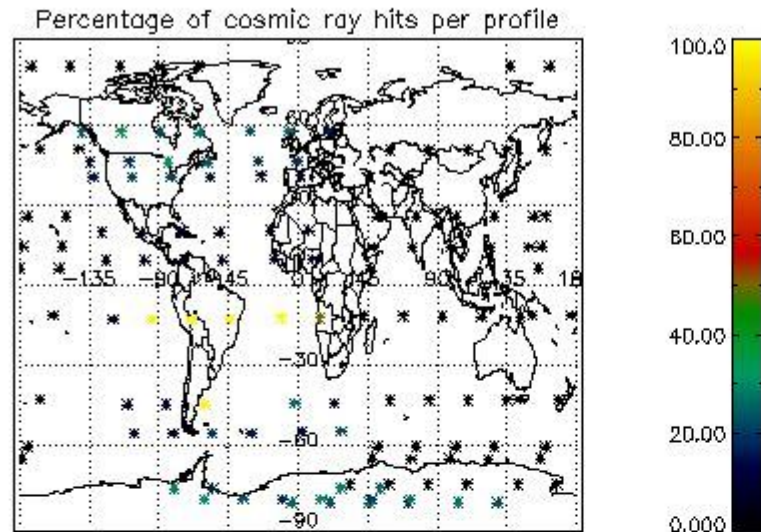
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	39.6947 %
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)



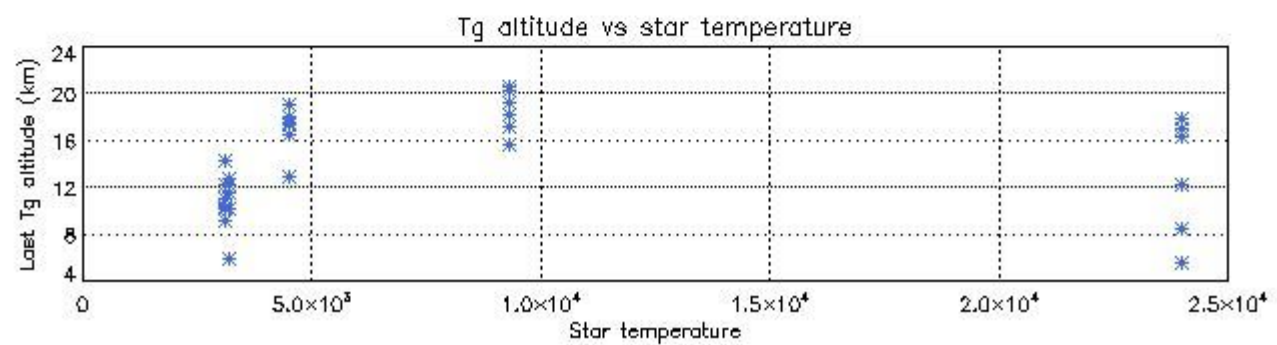
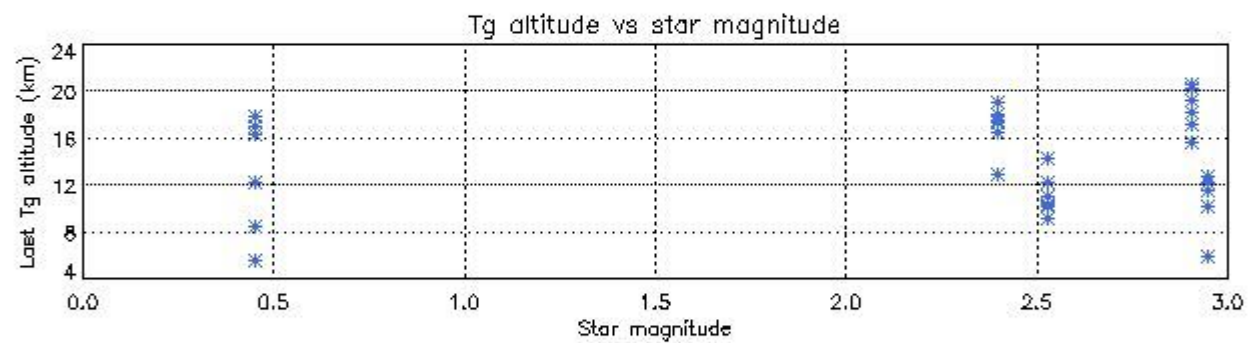
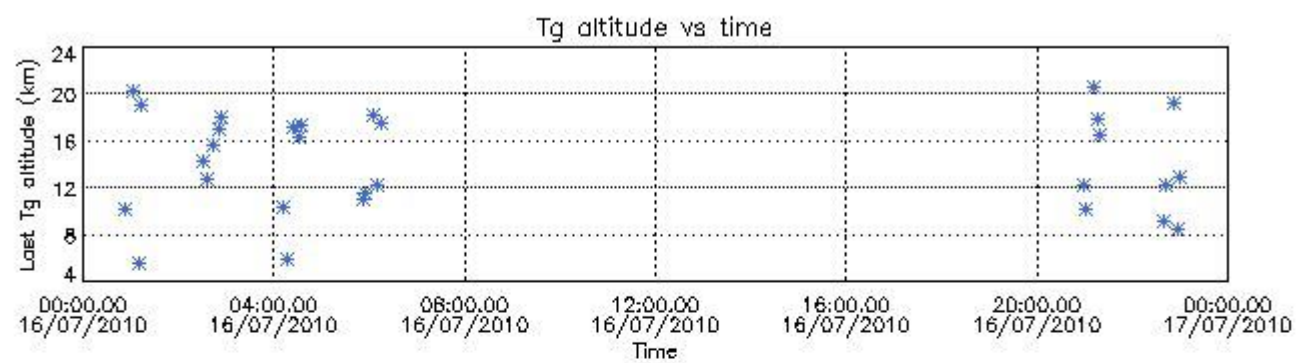
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.118	20.203	14.230
St. deviation:	4.2386	3.5740	5.1386
Maximum:	20.596	27.069	22.179
Minimum:	5.5028	4.0607	4.8989
Number of data:	29.000	66.000	10.000

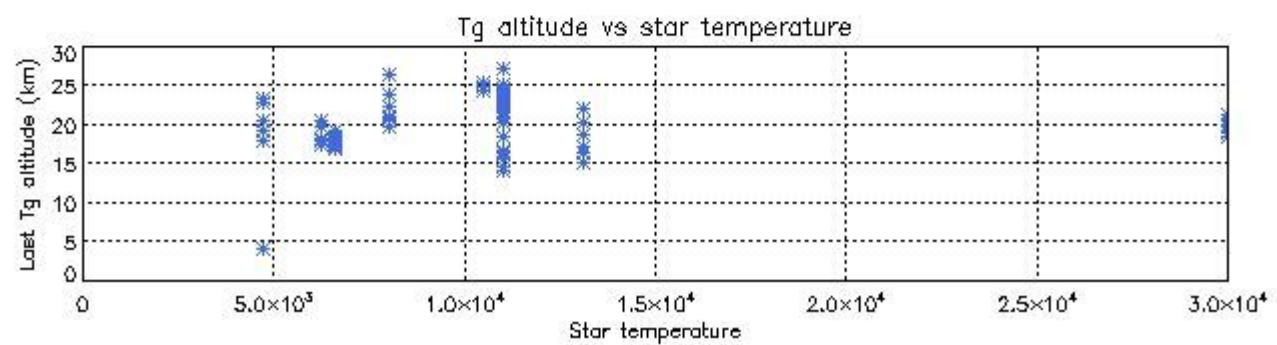
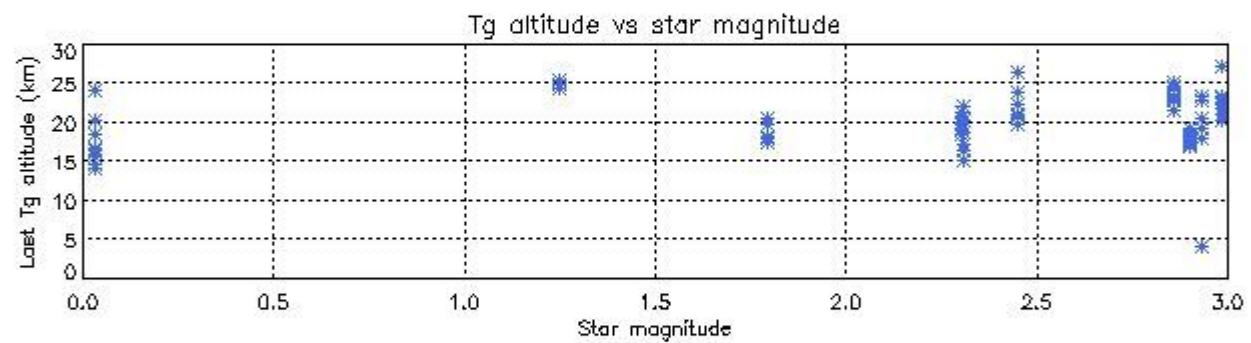
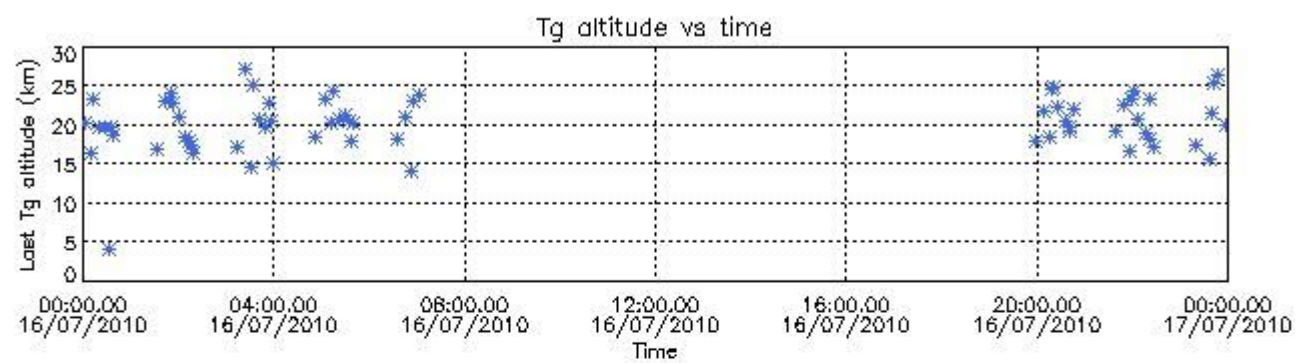
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



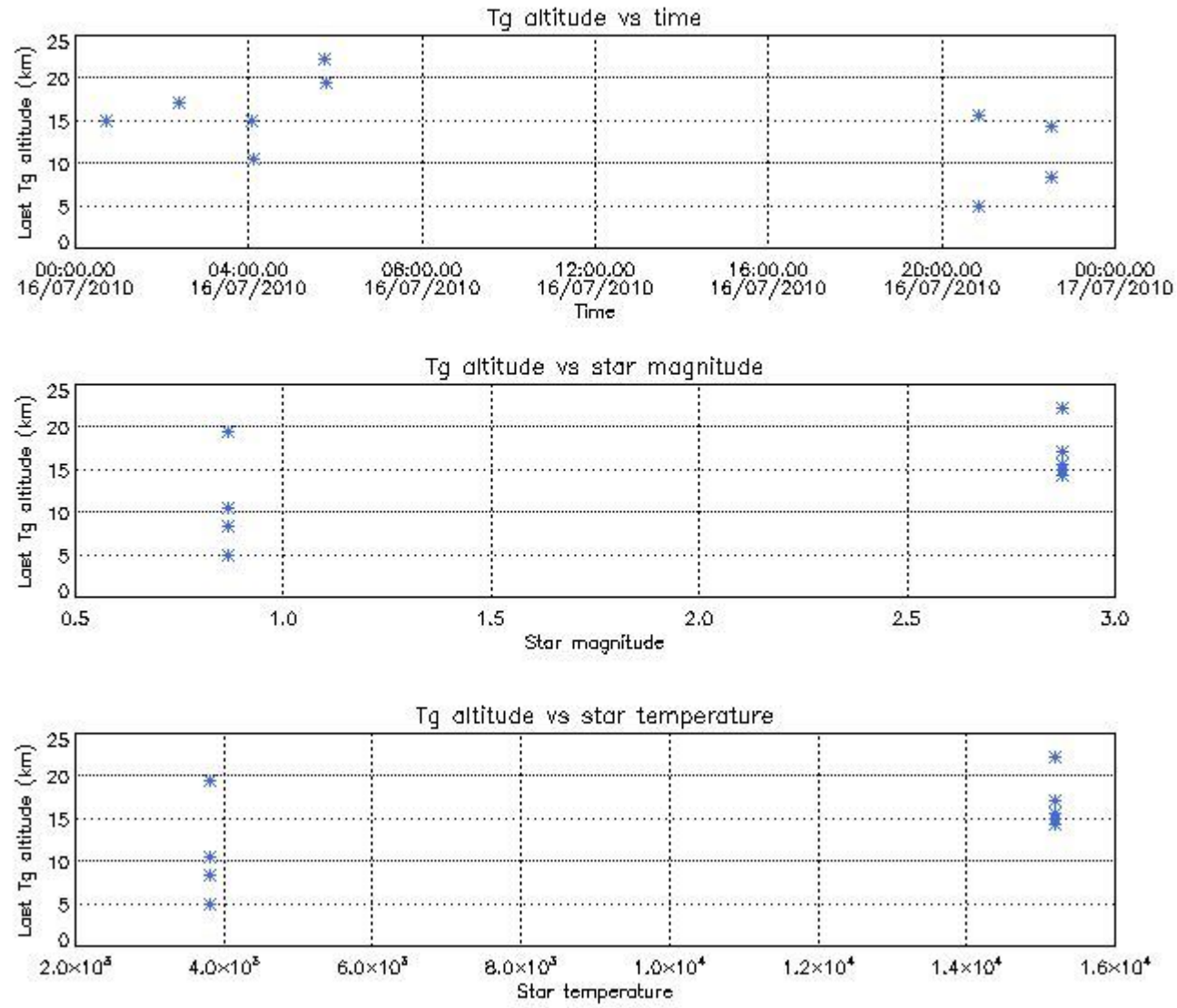
6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products

Tangent altitude at which the star is lost

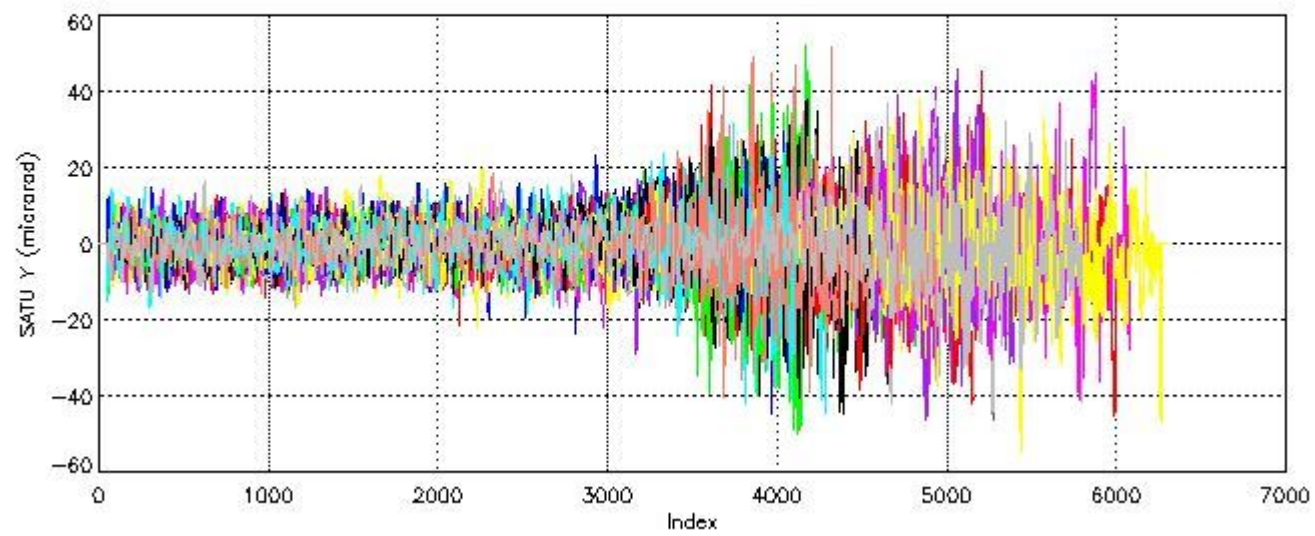
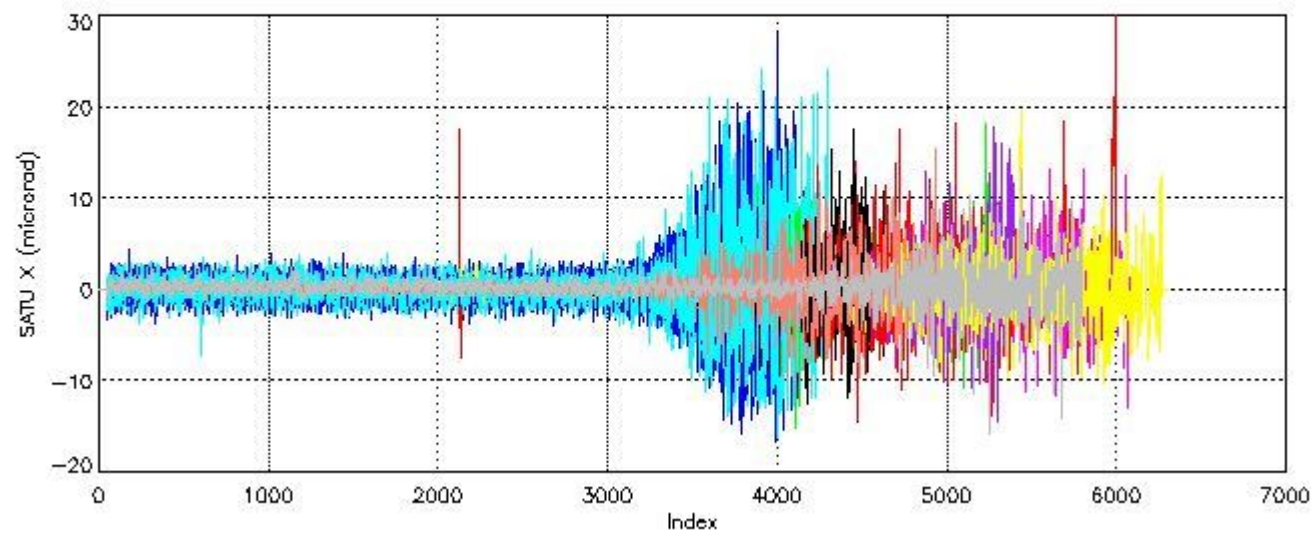


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17968	-0.47725	0.20770	-0.37181
St. deviation:	0.51530	4.1321	0.90348	4.0203
Maximum:	4.4000	16.400	7.2000	15.600
Minimum:	-7.2000	-17.100	-6.9000	-18.500

Number of data:	30500.	30500.	67150.	67150.
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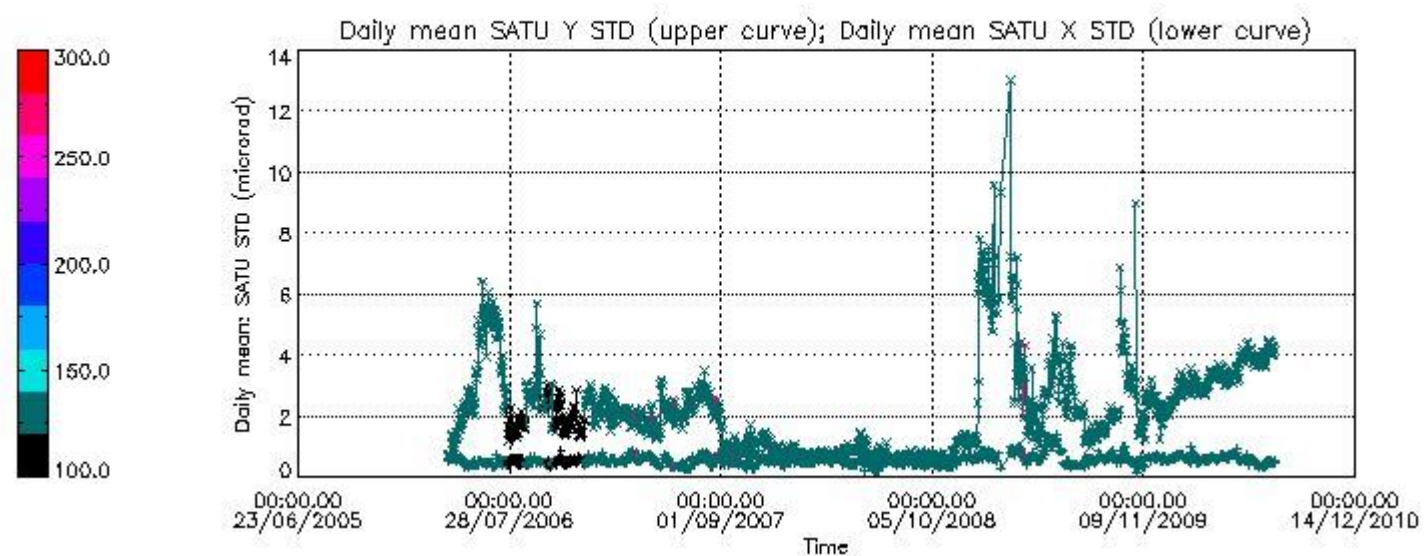
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

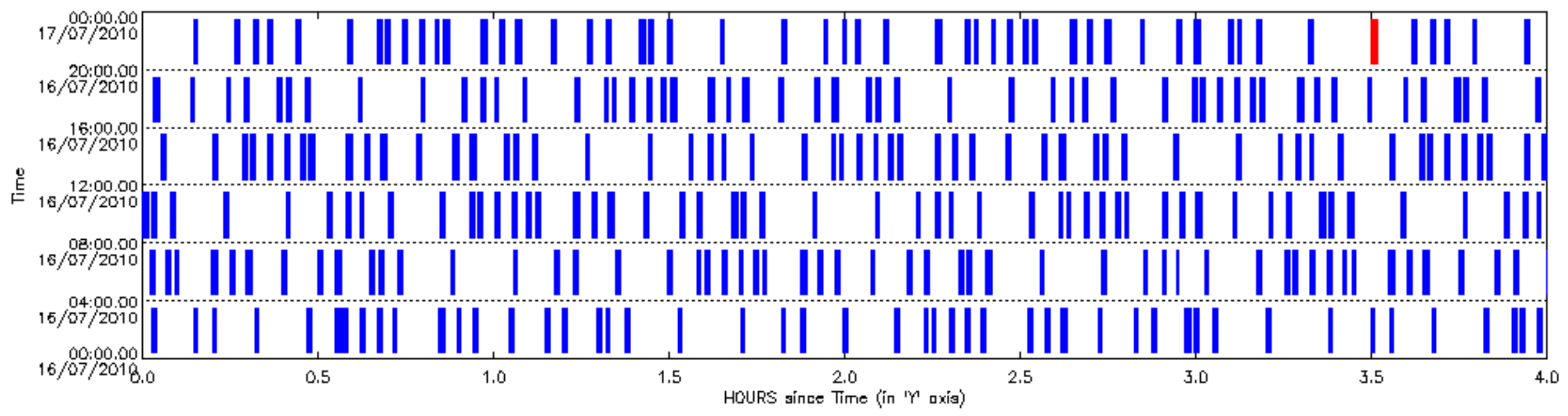
Lower curve: STD of SATU X axis

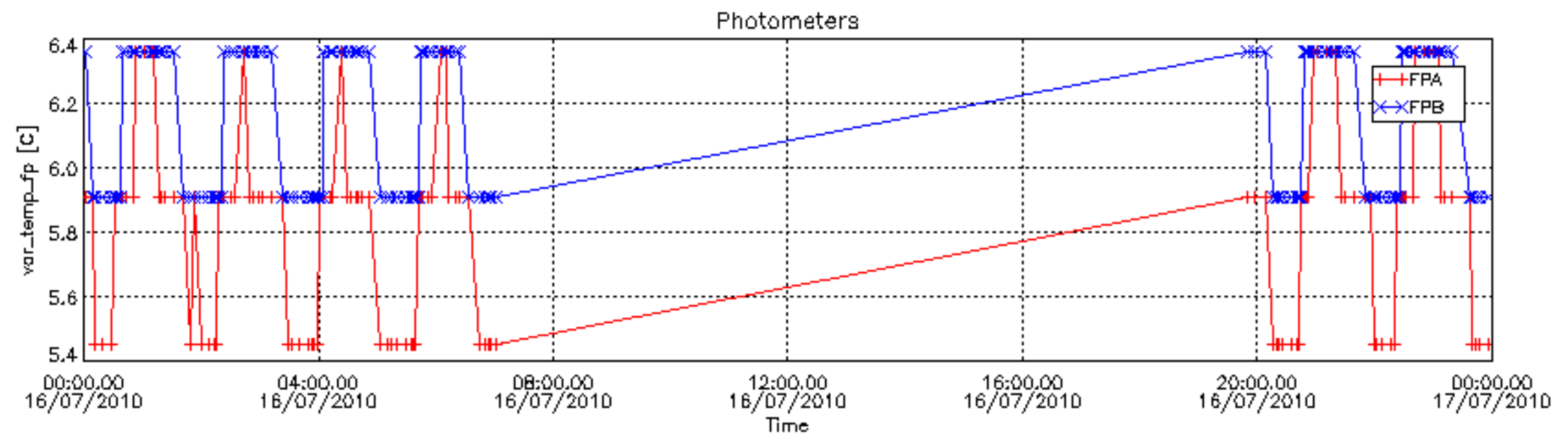
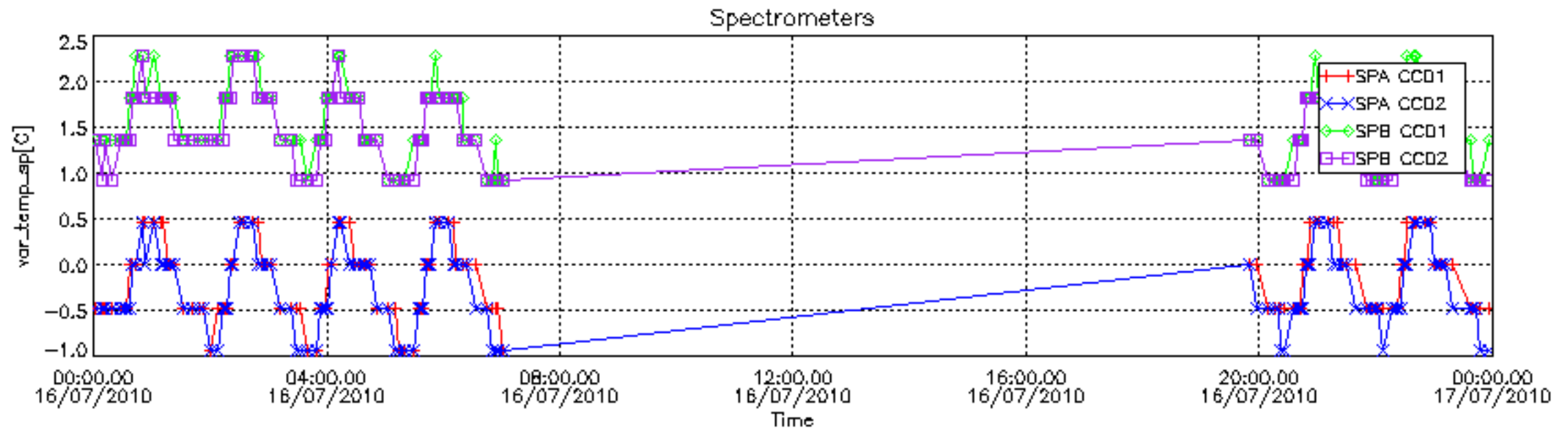


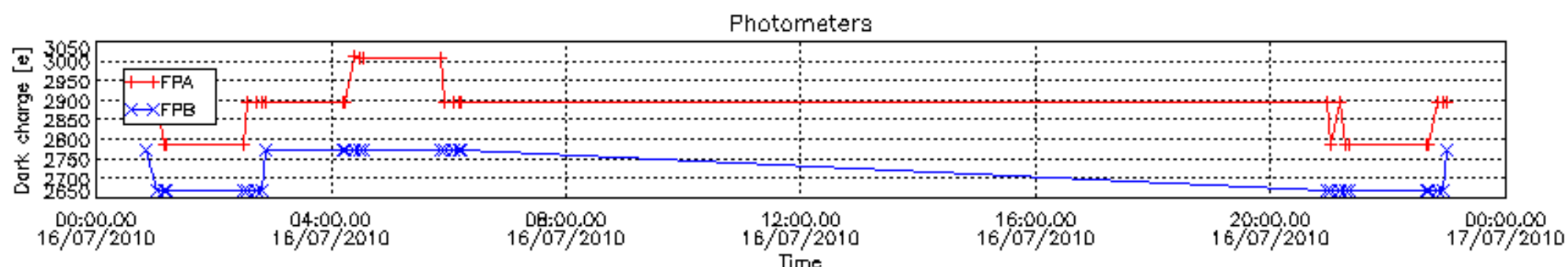
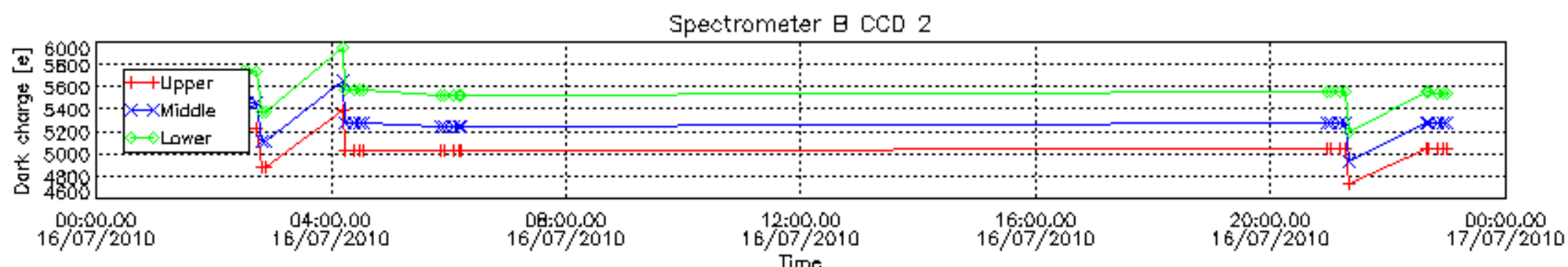
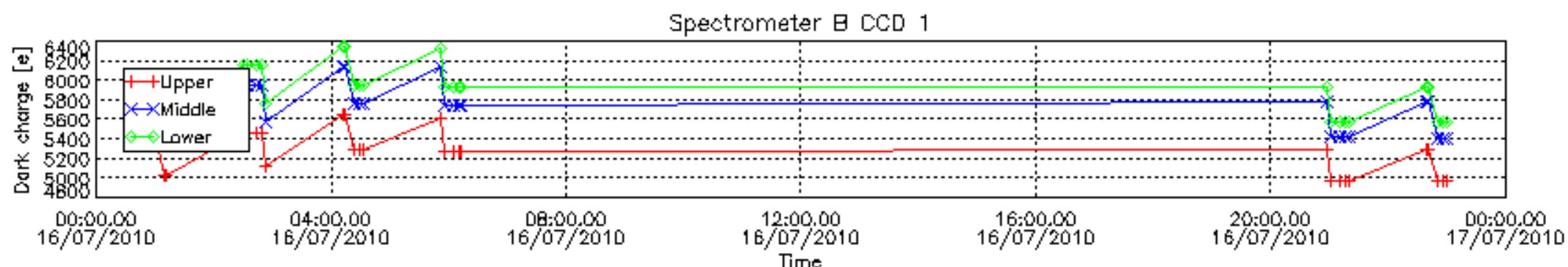
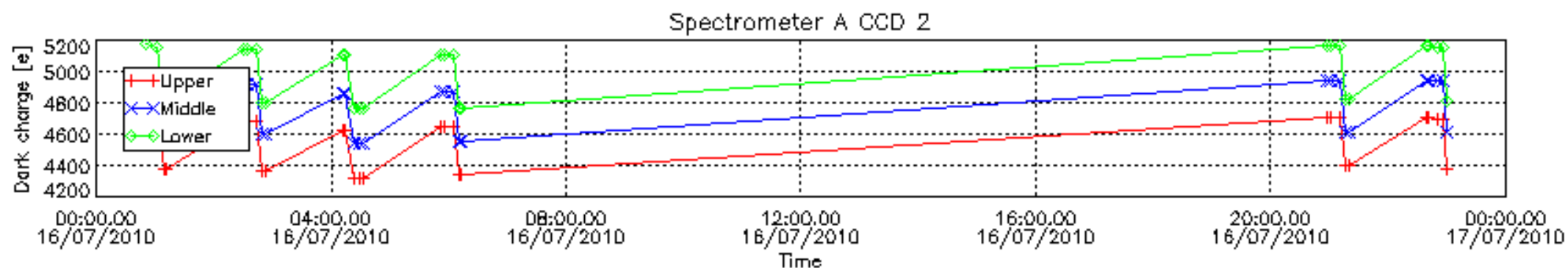
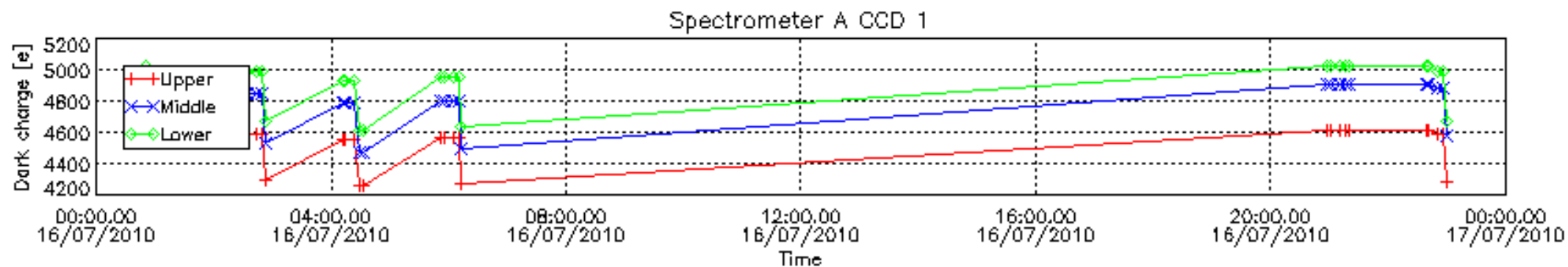
8. Auxiliary Data Files used for the production reported in section 2.4

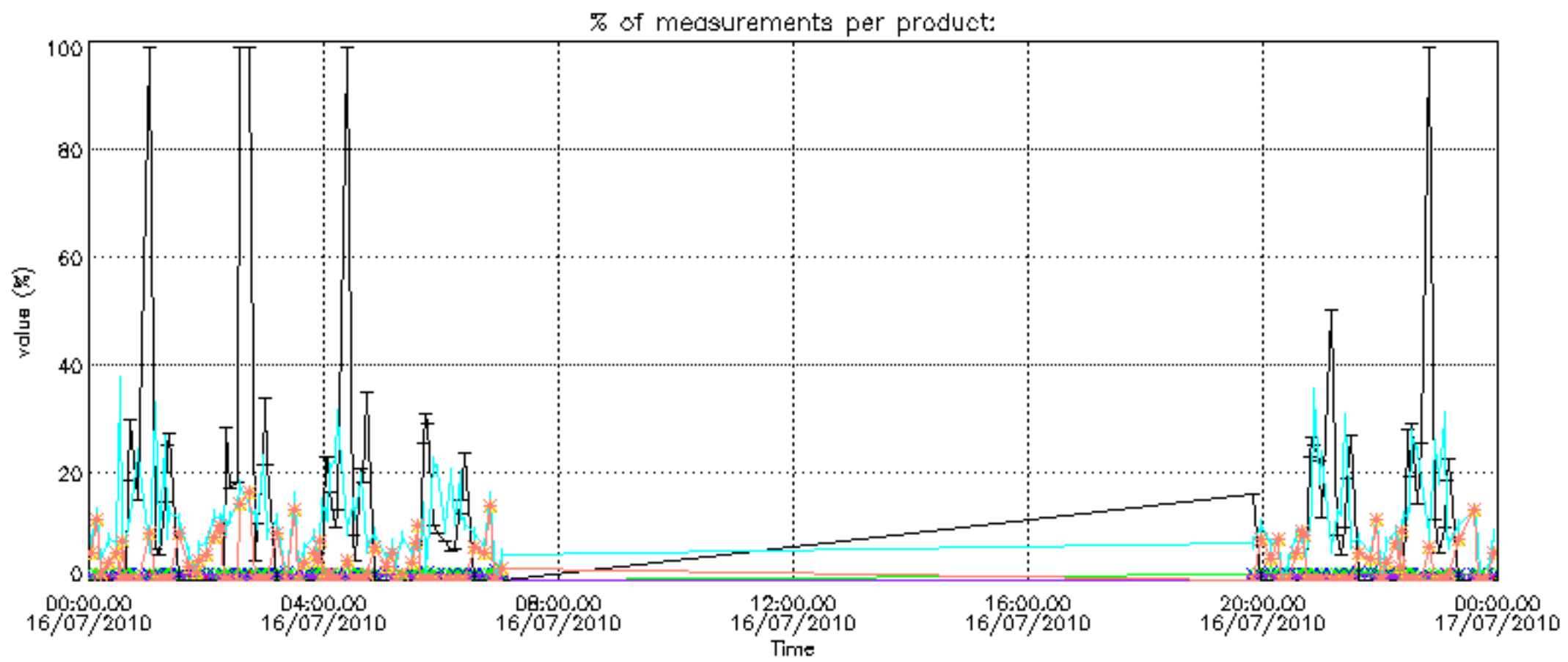
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	16-JUL-2010 00:01:33
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20100714_082217_20100712_000000_20500101_000000	1	16-JUL-2010 00:01:33
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-JUL-2010 00:01:33
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-JUL-2010 00:01:33
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-JUL-2010 00:01:33
ECMWF_FILE	AUX_ECF_AXNECM20100715_054113_20100715_210000_20100716_090000	1	16-JUL-2010 00:01:33
ECMWF_FILE	AUX_ECF_AXNECM20100715_172114_20100716_030000_20100716_150000	42	16-JUL-2010 03:40:15
ECMWF_FILE	AUX_ECA_AXNECM20100716_172113_20100716_090000_20100716_210000	84	16-JUL-2010 19:49:02
ECMWF_FILE	AUX_ECF_AXNECM20100716_052114_20100716_150000_20100717_030000	98	16-JUL-2010 20:57:53
ECMWF_FILE	AUX_ECF_AXNECM20100716_054112_20100716_210000_20100717_090000	121	16-JUL-2010 22:50:31
OPTIONAL_ECMWF_FILE	MISSING	1	16-JUL-2010 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100715_230850_000057382091_00144_43785_0755.N1	1	16-JUL-2010 00:01:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100716_004947_000095642091_00145_43786_0756.N1	12	16-JUL-2010 00:53:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100716_033429_000063762091_00147_43788_0757.N1	42	16-JUL-2010 03:40:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100716_052604_000057382091_00148_43789_0758.N1	63	16-JUL-2010 05:29:40
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100716_194648_000035072091_00157_43798_0759.N1	84	16-JUL-2010 19:49:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100716_205033_000063762091_00157_43798_0760.N1	98	16-JUL-2010 20:57:53
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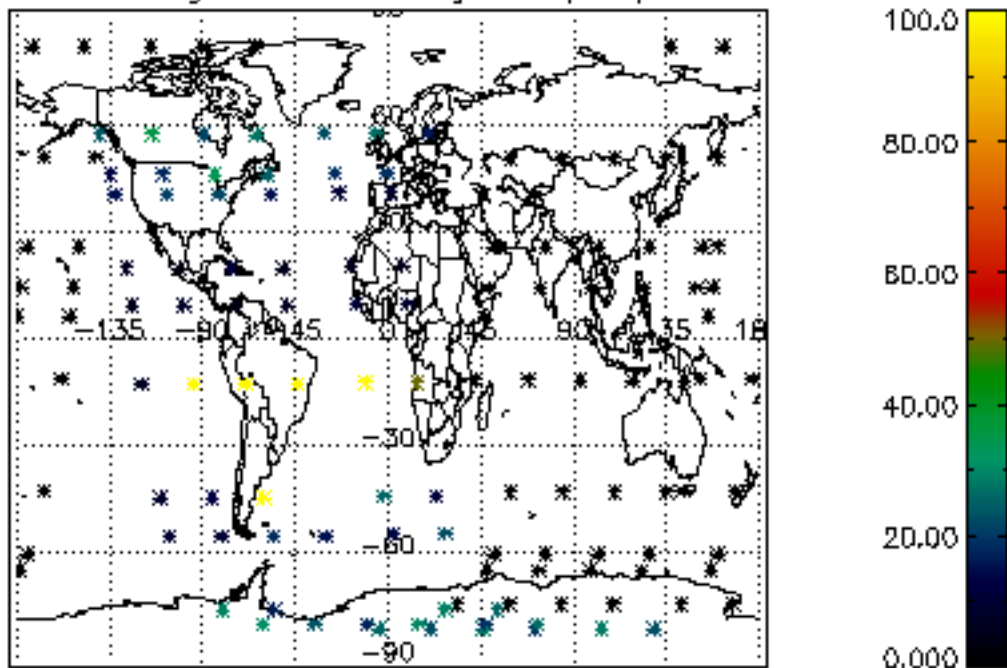




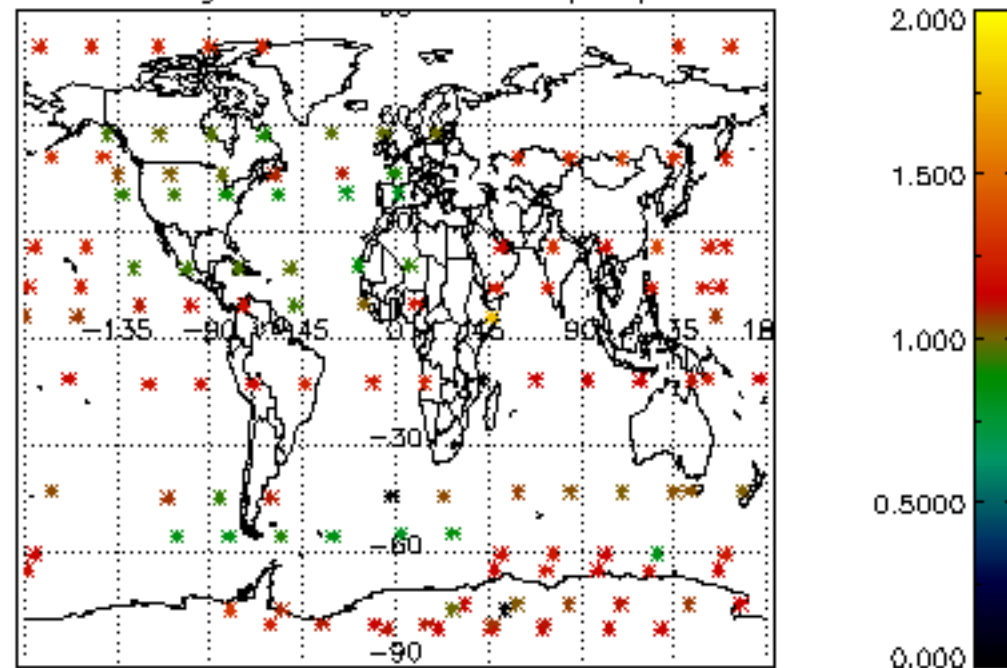




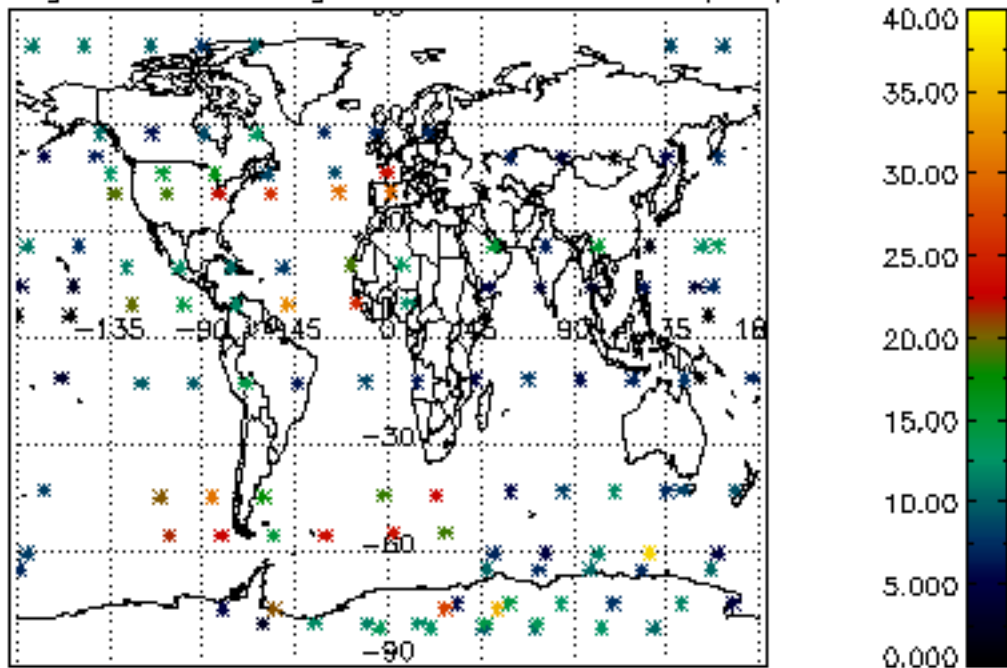
Percentage of cosmic ray hits per profile



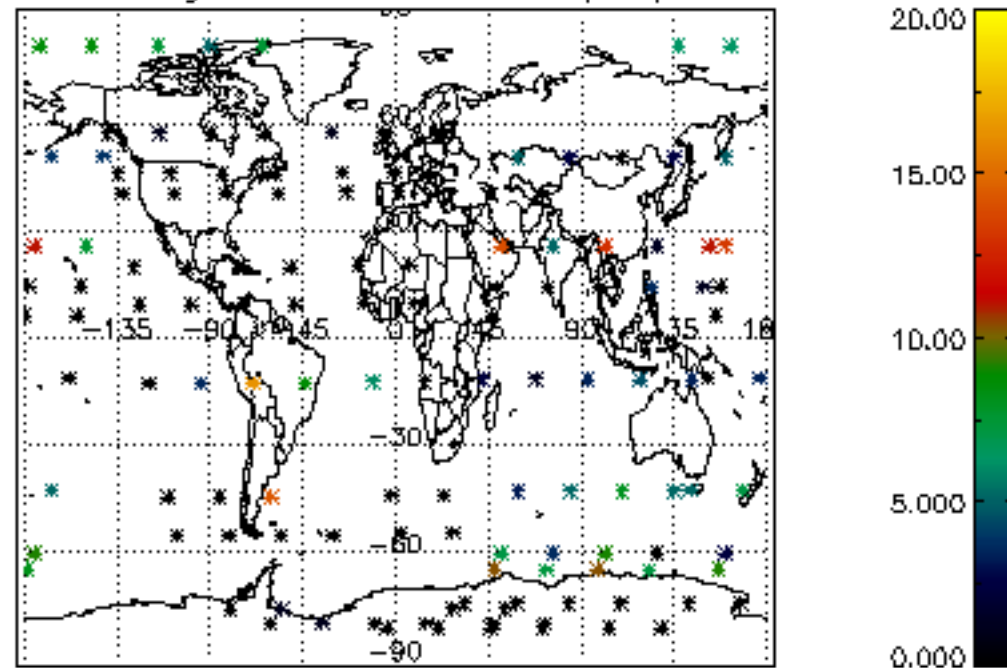
Percentage of datation errors per profile



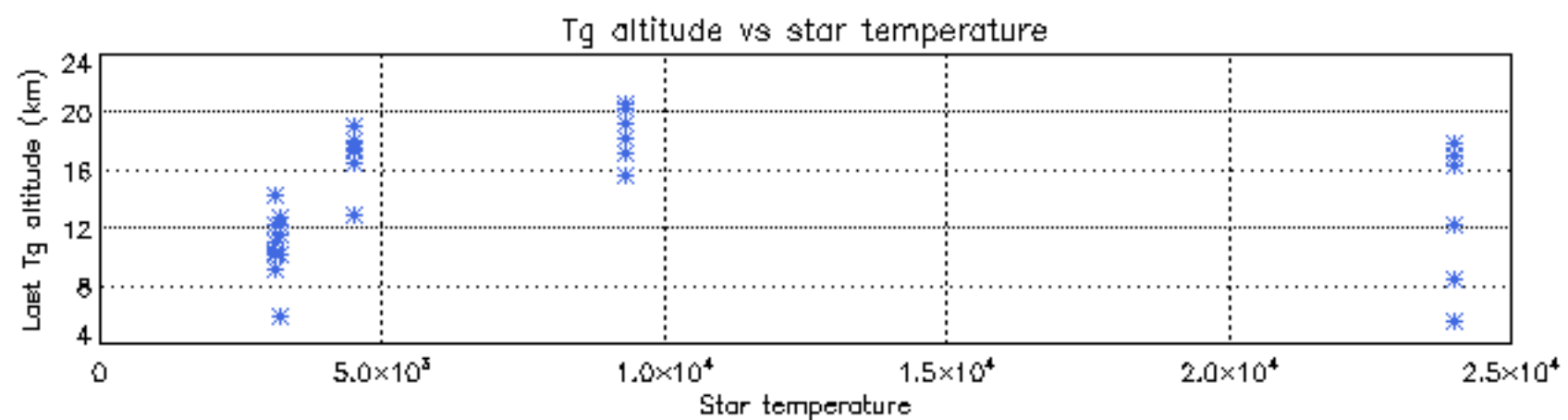
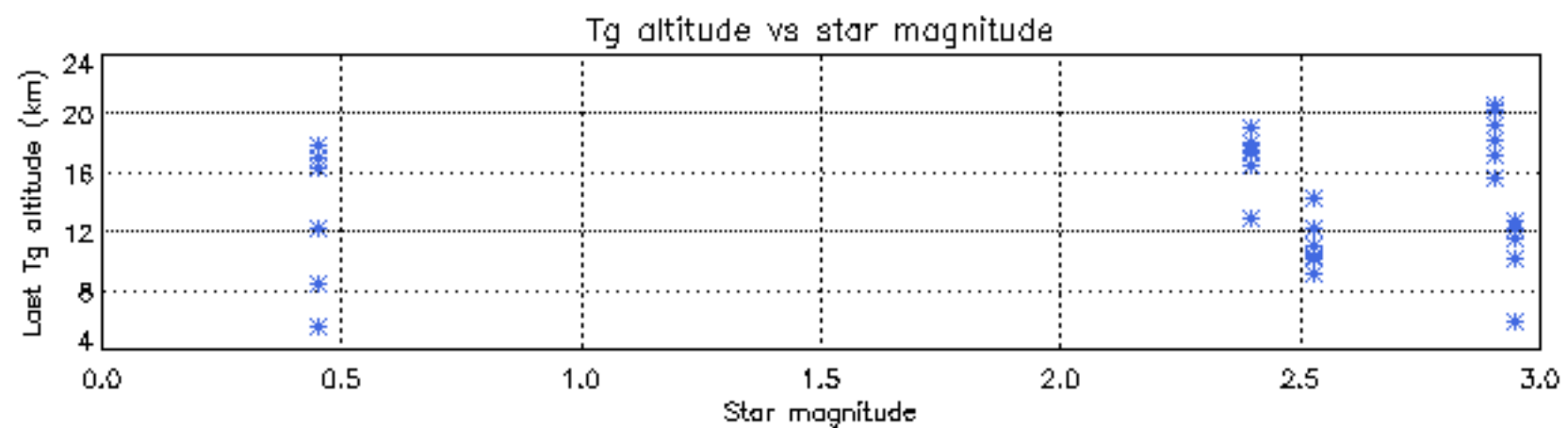
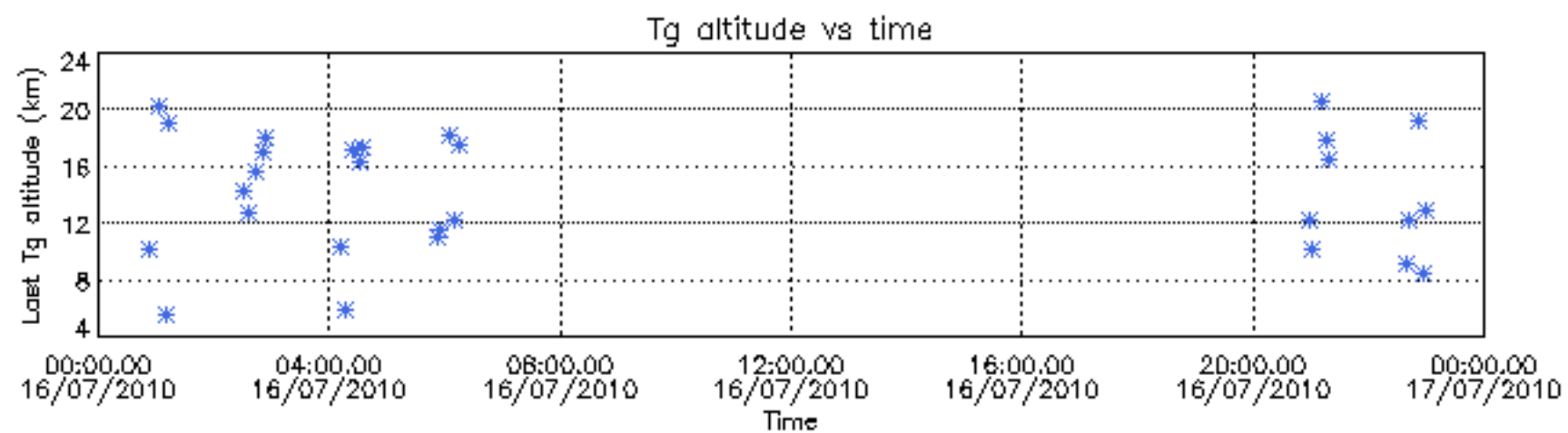
Percentage of star falling outside central band per profile



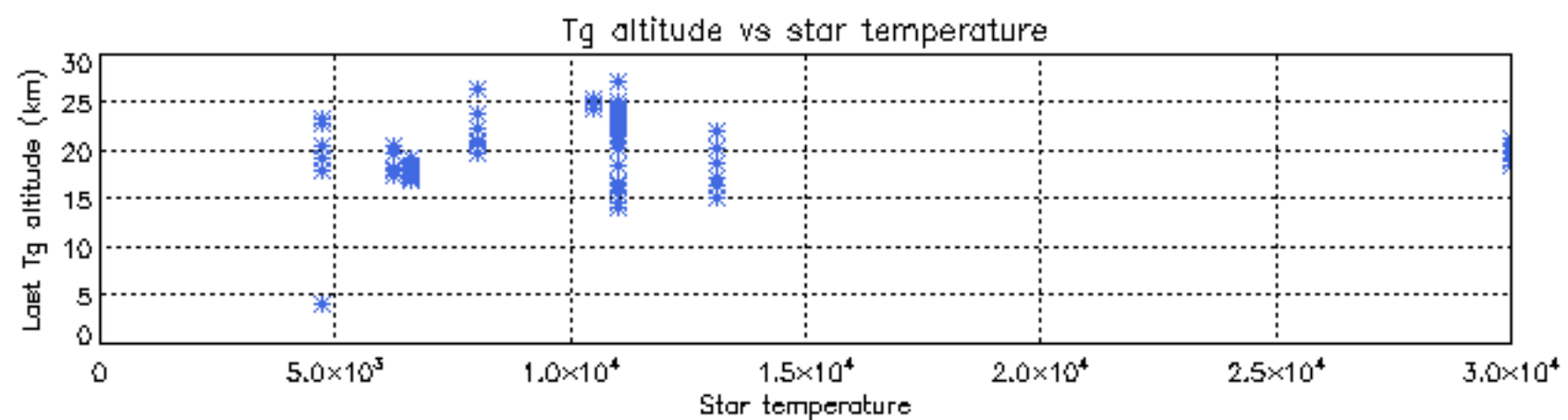
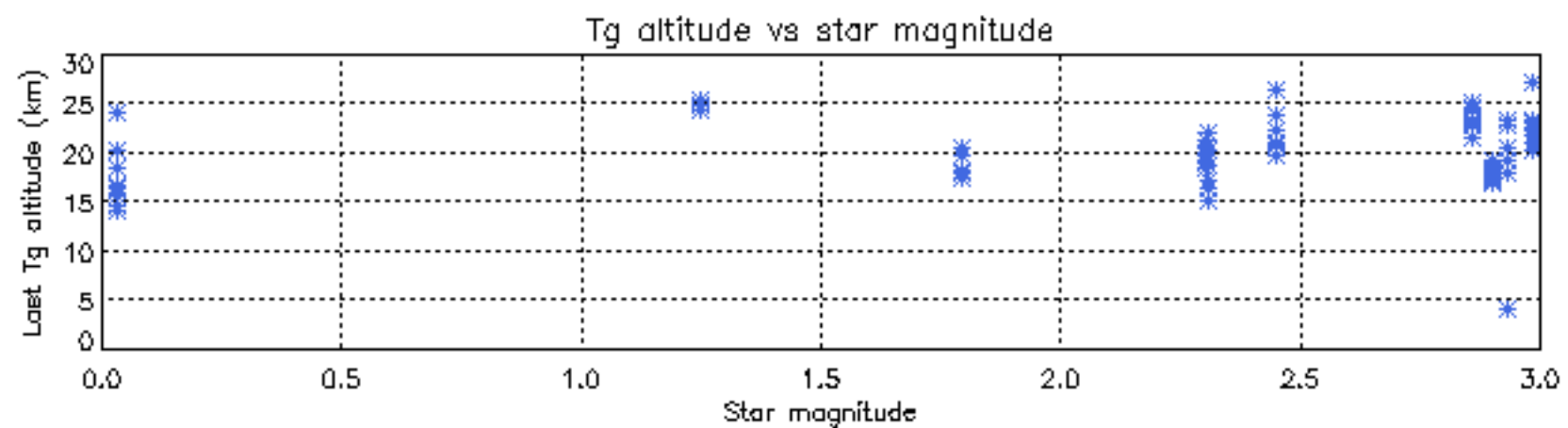
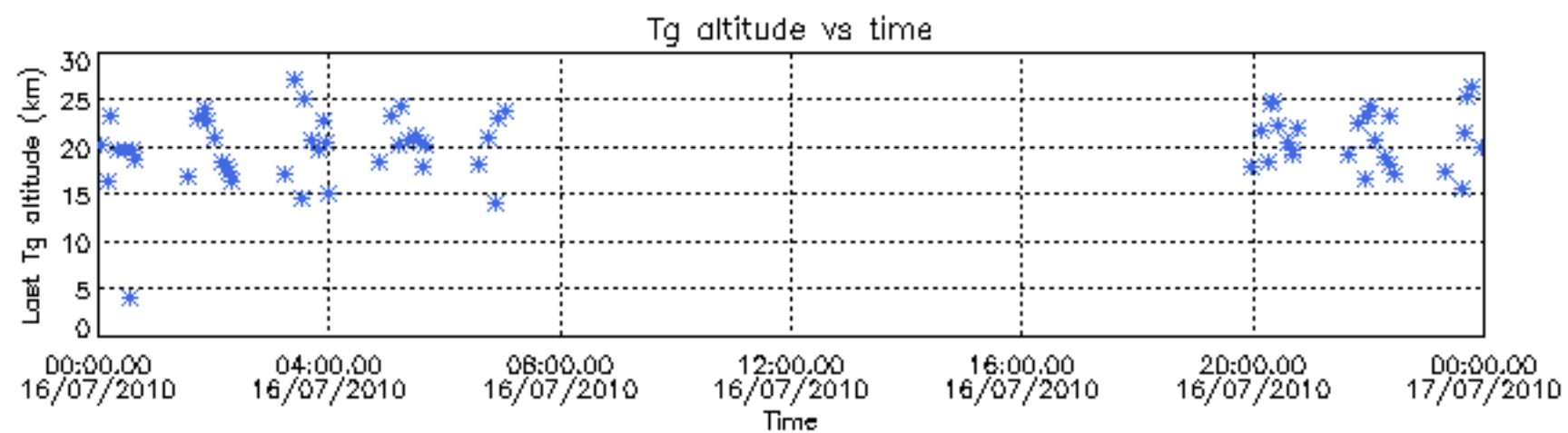
Percentage of saturation errors per profile



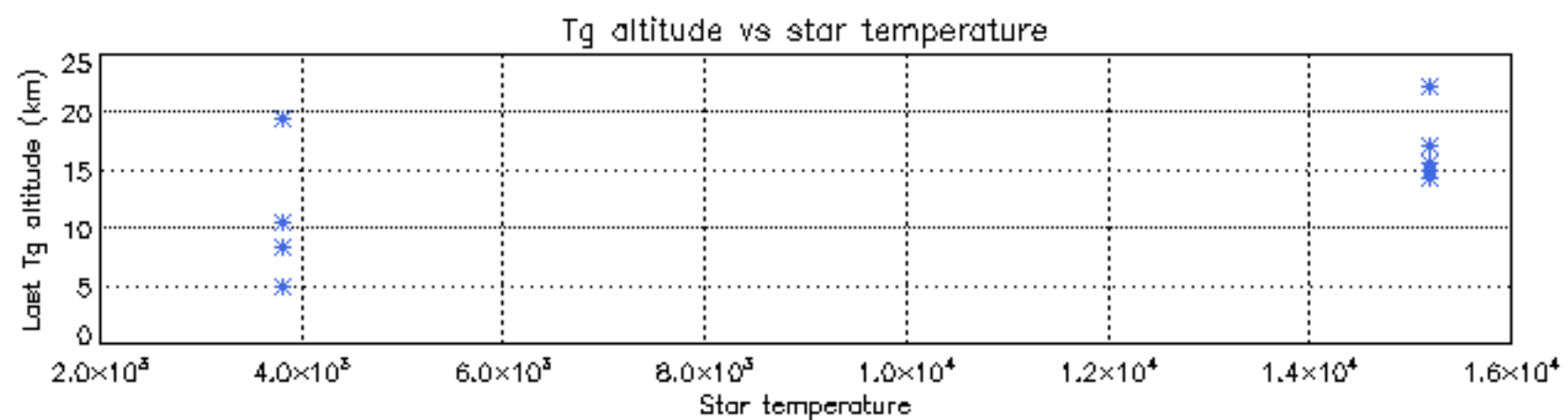
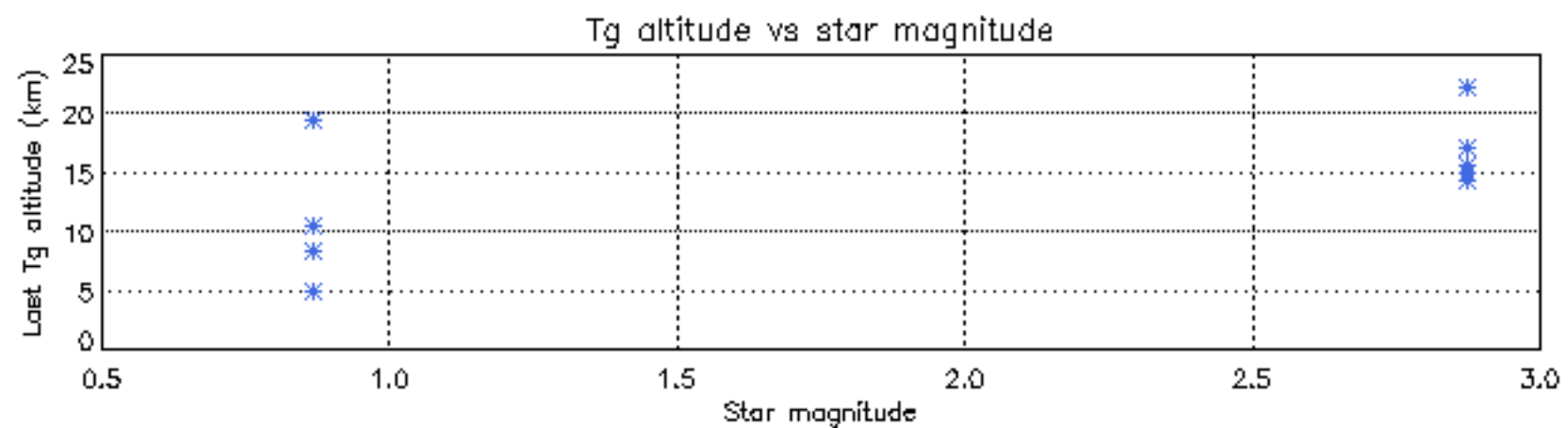
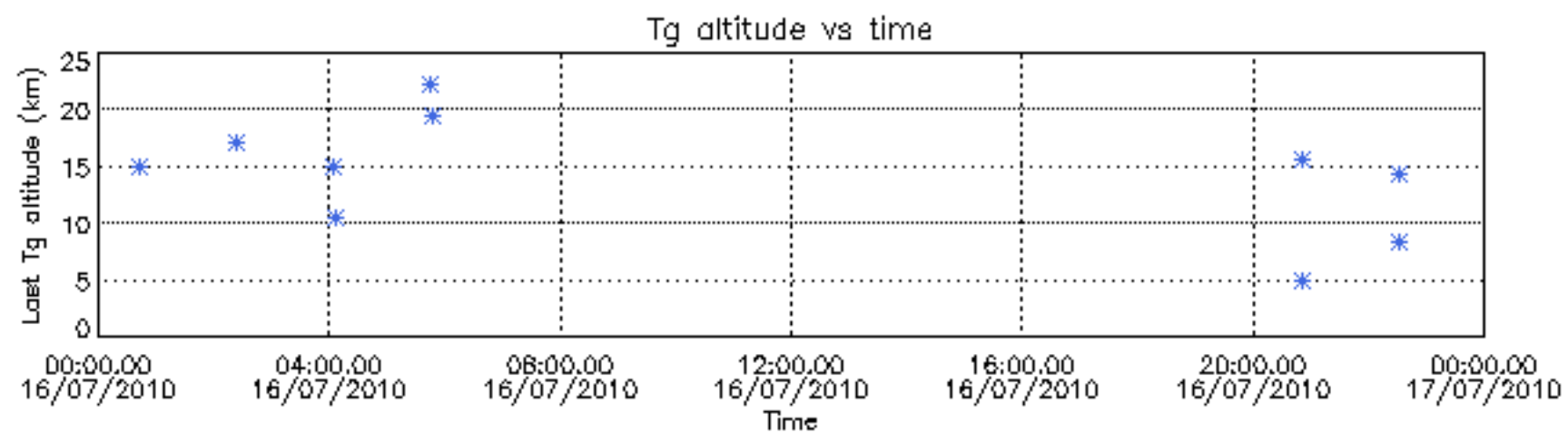
Tangent altitude at which the star is lost

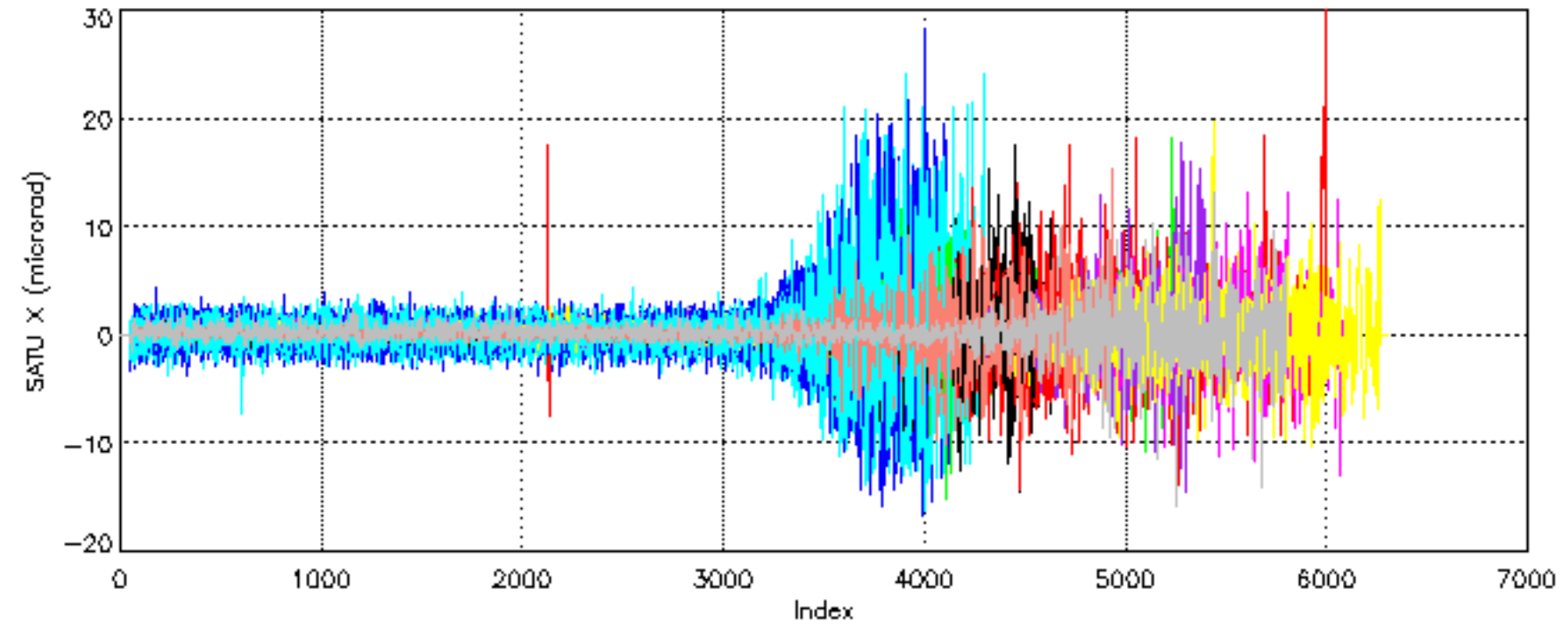


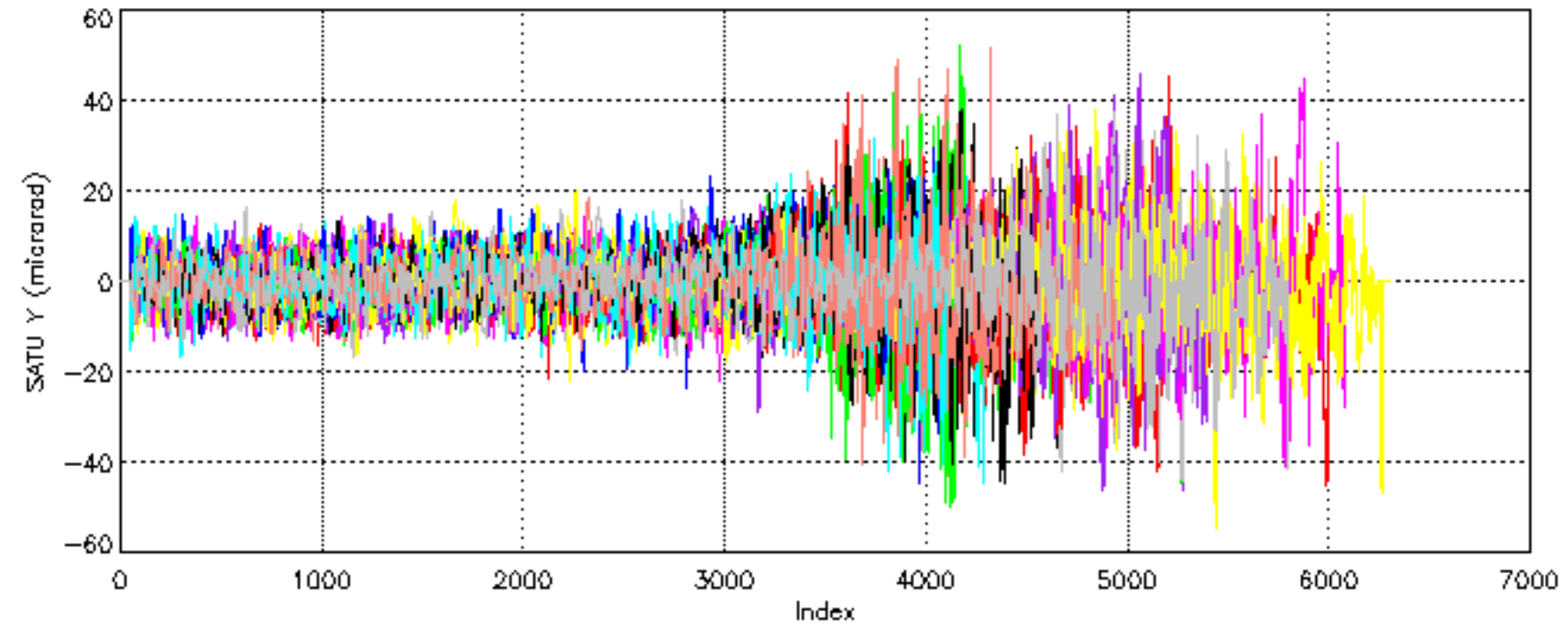
Tangent altitude at which the star is lost

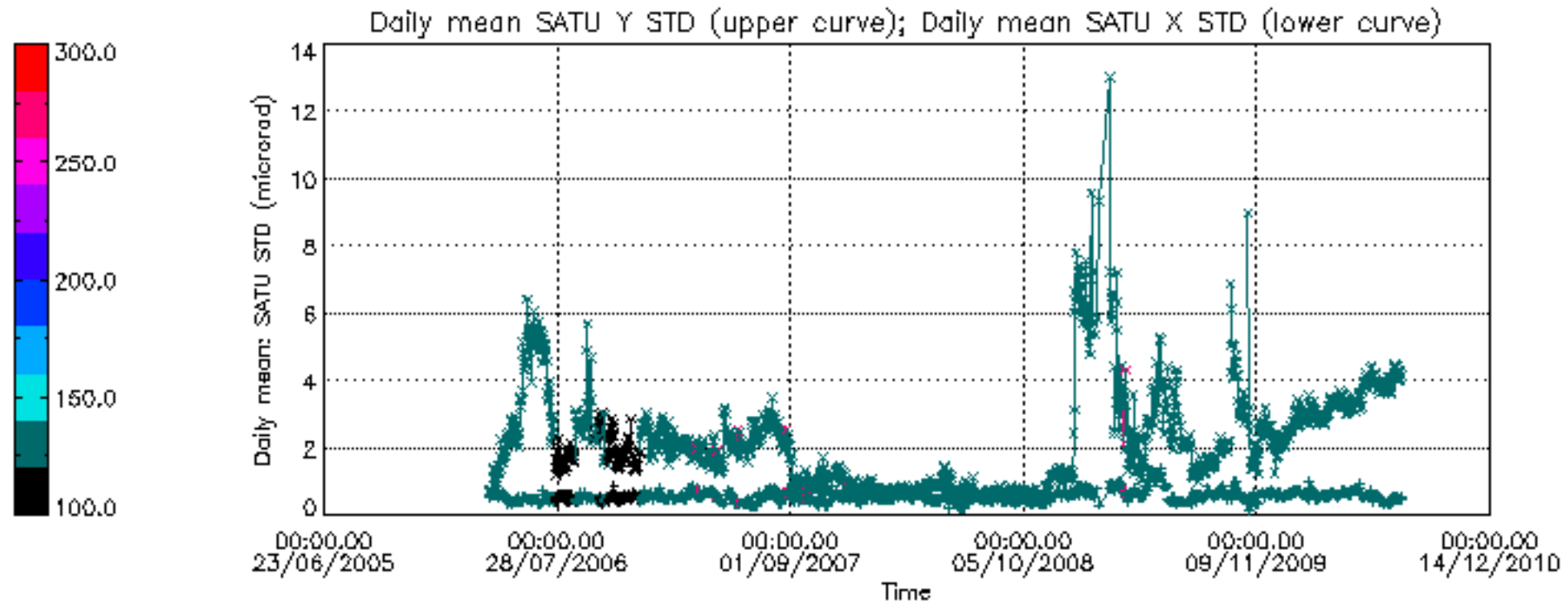


Tangent altitude at which the star is lost









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 2; 94.6; 01-JUL-2010 00:38:59; Dark ; 52.5; 84; Alp Phe ; 2.40; 4500;occ; 105; 0;43572
 3; 483.7; 01-JUL-2010 00:45:28; Dark ; 56.5; 63; Bet Gru ; 2.15; 2800;occ; 113; 0;43572
 4; 600.1; 01-JUL-2010 00:47:24; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;43572
 5; 743.9; 01-JUL-2010 00:49:48; Dark ; 40.5; 45; Alp Pav ; 1.94; 26000;occ; 81; 0;43572
 6; 1314.0; 01-JUL-2010 00:59:18; Dark ; 49.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 98; 0;43572
 7; 1480.2; 01-JUL-2010 01:02:04; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43572
 8; 1981.6; 01-JUL-2010 01:10:26; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;43572
 9; 2121.8; 01-JUL-2010 01:12:46; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43572
 10; 2233.6; 01-JUL-2010 01:14:38; Bright; 47.5; 168; 17Zet Aql ; 2.99; 11000;occ; 95; 0;43572
 11; 2652.9; 01-JUL-2010 01:21:37; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43572
 12; 2809.4; 01-JUL-2010 01:24:14; Bright; 36.0; 130; 23Bet Dra ; 2.80; 5800;occ; 72; 0;43572
 13; 2925.2; 01-JUL-2010 01:26:09; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43572
 14; 3345.6; 01-JUL-2010 01:33:10; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43572
 15; 3786.1; 01-JUL-2010 01:40:30; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;43572
 16; 3888.2; 01-JUL-2010 01:42:12; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;43572
 17; 4062.4; 01-JUL-2010 01:45:07; Bright; 56.0; 160; 23Gam Per ; 2.93; 4700;occ; 112; 0;43572
 18; 4266.8; 01-JUL-2010 01:48:31; Bright; 46.0; 73; 57Gam1And ; 2.26; 13100;occ; 92; 0;43572
 19; 4424.1; 01-JUL-2010 01:51:08; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43572
 20; 4678.5; 01-JUL-2010 01:55:23; Dark ; 60.5; 50; 13Alp Ari ; 2.01; 4250;occ; 121; 0;43572
 21; 4976.2; 01-JUL-2010 02:00:20; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43572

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1; -535.5; 01-JUL-2010 02:09:05; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43572
 2; 95.3; 01-JUL-2010 02:19:35; Dark ; 58.0; 84; Alp Phe ; 2.40; 4500;occ; 116; 0;43573
 3; 484.4; 01-JUL-2010 02:26:04; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;43573
 4; 601.0; 01-JUL-2010 02:28:01; Dark ; 55.0; 31; Alp Gru ; 1.73; 15200;occ; 110; 0;43573
 5; 744.6; 01-JUL-2010 02:30:25; Dark ; 46.5; 45; Alp Pav ; 1.94; 26000;occ; 93; 0;43573
 6; 1314.3; 01-JUL-2010 02:39:54; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;43573
 7; 1480.5; 01-JUL-2010 02:42:41; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43573
 8; 1982.0; 01-JUL-2010 02:51:02; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43573
 9; 2121.7; 01-JUL-2010 02:53:22; Bright; 38.0; 59; 55Alp Oph ; 2.08; 8900;occ; 76; 0;43573
 10; 2233.3; 01-JUL-2010 02:55:13; Bright; 49.5; 168; 17Zet Aql ; 2.99; 11000;occ; 99; 0;43573
 11; 2652.5; 01-JUL-2010 03:02:13; Bright; 41.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 83; 0;43573
 12; 2809.3; 01-JUL-2010 03:04:49; Bright; 35.5; 130; 23Bet Dra ; 2.80; 5800;occ; 71; 0;43573
 13; 2924.7; 01-JUL-2010 03:06:45; Bright; 40.0; 144; 18Del Cyg ; 2.86; 11000;occ; 80; 0;43573
 14; 3344.9; 01-JUL-2010 03:13:45; Bright; 47.5; 89; 5Alp Cep ; 2.45; 8000;occ; 95; 0;43573

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 2;-2148.4; 01-JUL-2010 03:22:48; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;43573
 3;-1973.6; 01-JUL-2010 03:25:42; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;43573
 4;-1769.2; 01-JUL-2010 03:29:07; Bright; 65.0; 73; 57Gam1And ; 2.26; 13100;occ; 130; 0;43573
 5;-1611.6; 01-JUL-2010 03:31:44; Dark ; 50.5; 173; 4Bet Tri ; 3.00; 8900;occ; 101; 0;43573
 6;-1357.0; 01-JUL-2010 03:35:59; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43573
 7;-1059.7; 01-JUL-2010 03:40:56; Dark ; 48.5; 94; 92Alp Cet ; 2.53; 3100;occ; 97; 0;43573
 8; -534.6; 01-JUL-2010 03:49:41; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43573
 9; 96.5; 01-JUL-2010 04:00:13; Dark ; 48.5; 84; Alp Phe ; 2.40; 4500;occ; 97; 0;43574
 10; 485.6; 01-JUL-2010 04:06:42; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43574
 11; 602.3; 01-JUL-2010 04:08:38; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;43574
 12; 744.8; 01-JUL-2010 04:11:01; Dark ; 43.0; 45; Alp Pav ; 1.94; 26000;occ; 86; 0;43574
 13; 1314.7; 01-JUL-2010 04:20:31; Dark ; 45.0; 103; 38Zet Sgr ; 2.60; 9700;occ; 90; 0;43574
 14; 1388.9; 01-JUL-2010 04:21:45; Bright; 45.0; 57; 34Sig Sgr ; 2.07; 26000;occ; 90; 0;43574
 15; 1480.4; 01-JUL-2010 04:23:16; Bright; 46.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 93; 0;43574
 16; 1981.9; 01-JUL-2010 04:31:38; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43574
 17; 2121.8; 01-JUL-2010 04:33:58; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;43574
 18; 2232.8; 01-JUL-2010 04:35:49; Bright; 48.5; 168; 17Zet Aql ; 2.99; 11000;occ; 97; 0;43574
 19; 2652.2; 01-JUL-2010 04:42:48; Bright; 44.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 89; 0;43574
 20; 2809.2; 01-JUL-2010 04:45:25; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;43574
 21; 2923.6; 01-JUL-2010 04:47:20; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43574
 22; 3344.5; 01-JUL-2010 04:54:21; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;43574

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 2;-2148.9; 01-JUL-2010 05:03:23; Bright; 69.0; 68; 18Alp Cas ; 2.22; 4500;occ; 138; 0;43574
 3;-1973.4; 01-JUL-2010 05:06:19; Bright; 36.0; 160; 23Gam Per ; 2.93; 4700;occ; 72; 0;43574
 4;-1769.5; 01-JUL-2010 05:09:43; Bright; 48.0; 73; 57Gam1And ; 2.26; 13100;occ; 96; 0;43574
 5;-1611.5; 01-JUL-2010 05:12:21; Dark ; 49.5; 173; 4Bet Tri ; 3.00; 8900;occ; 99; 0;43574
 6;-1356.8; 01-JUL-2010 05:16:35; Dark ; 58.0; 50; 13Alp Ari ; 2.01; 4250;occ; 116; 0;43574
 7;-1059.1; 01-JUL-2010 05:21:33; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;43574

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9; 97.7; 01-JUL-2010 05:40:50; Dark ; 47.5; 84; Alp Phe ; 2.40; 4500;occ; 95; 0;43575
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11; 602.8; 01-JUL-2010 05:49:15; Dark ; 48.0; 31; Alp Gru ; 1.73; 15200;occ; 96; 0;43575
12; 745.4; 01-JUL-2010 05:51:37; Dark ; 41.0; 45; Alp Pav ; 1.94; 26000;occ; 82; 0;43575
13; 1314.8; 01-JUL-2010 06:01:07; Dark ; 45.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 91; 0;43575
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15; 1480.9; 01-JUL-2010 06:03:53; Bright; 45.0; 155; 41Pi Sgr ; 2.90; 6600;occ; 90; 0;43575
16; 1982.2; 01-JUL-2010 06:12:14; Bright; 37.0; 126; 60Bet Oph ; 2.77; 4250;occ; 74; 0;43575
17; 2121.9; 01-JUL-2010 06:14:34; Bright; 37.0; 59; 55Alp Oph ; 2.08; 8900;occ; 74; 0;43575
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4; -1769.3; 01-JUL-2010 06:50:19; Bright; 51.5; 73; 57Gam1And ; 2.26; 13100;occ; 103; 0;43575
5; -1611.1; 01-JUL-2010 06:52:57; Dark ; 47.0; 173; 4Bet Tri ; 3.00; 8900;occ; 94; 0;43575
6; -1356.0; 01-JUL-2010 06:57:12; Dark ; 56.5; 50; 13Alp Ari ; 2.01; 4250;occ; 113; 0;43575
7; -1058.6; 01-JUL-2010 07:02:09; Dark ; 49.0; 94; 92Alp Cet ; 2.53; 3100;occ; 98; 0;43575
8; -532.8; 01-JUL-2010 07:10:55; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;43575
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5; 2808.8; 01-JUL-2010 08:06:37; Bright; 39.0; 130; 23Bet Dra ; 2.80; 5800;occ; 78; 0;43576
6; 2921.8; 01-JUL-2010 08:08:30; Bright; 49.0; 144; 18Del Cyg ; 2.86; 11000;occ; 98; 0;43576
7; 3343.1; 01-JUL-2010 08:15:31; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43576
8; 3784.4; 01-JUL-2010 08:22:52; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;43576
9; 3876.7; 01-JUL-2010 08:24:25; Bright; 43.5; 110; 37Del Cas ; 2.68; 8900;occ; 87; 0;43576
10; 4062.2; 01-JUL-2010 08:27:30; Bright; 55.0; 160; 23Gam Per ; 2.93; 4700;occ; 110; 0;43576
11; 4165.5; 01-JUL-2010 08:29:14; Bright; 34.0; 175; 39Del Per ; 3.01; 19400;occ; 68; 0;43576
12; 4266.5; 01-JUL-2010 08:30:54; Bright; 49.5; 73; 57Gam1And ; 2.26; 13100;occ; 99; 0;43576
13; 4424.9; 01-JUL-2010 08:33:33; Dark ; 46.0; 173; 4Bet Tri ; 3.00; 8900;occ; 92; 0;43576
14; 4679.9; 01-JUL-2010 08:37:48; Dark ; 59.0; 50; 13Alp Ari ; 2.01; 4250;occ; 118; 0;43576
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21; 7351.5; 01-JUL-2010 09:22:20; Dark ; 46.5; 103; 38Zet Sgr ; 2.60; 9700;occ; 93; 0;43577
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 4; 564.2; 06-JUL-2010 23:17:42; Dark ; 61.5; 63; Bet Gru ; 2.15; 2800;occ; 123; 0;43657
 5; 718.1; 06-JUL-2010 23:20:16; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43657
 6; 858.4; 06-JUL-2010 23:22:37; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43657
 7; 2194.4; 06-JUL-2010 23:44:53; Bright; 43.5; 168; 17Zet Aql ; 2.99; 11000;occ; 87; 0;43657
 8; 2616.8; 06-JUL-2010 23:51:55; Bright; 40.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 80; 0;43657
 9; 2857.0; 06-JUL-2010 23:55:55; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43657
 10; 3046.3; 06-JUL-2010 23:59:05; Bright; 58.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 116; 0;43657
 11; 3289.0; 07-JUL-2010 00:03:07; Bright; 45.5; 89; 5Alp Cep ; 2.45; 8000;occ; 91; 0;43657
 12; 3739.2; 07-JUL-2010 00:10:37; Bright; 48.5; 74; 11Bet Cas ; 2.27; 6600;occ; 97; 0;43657
 13; 3850.6; 07-JUL-2010 00:12:29; Bright; 64.0; 110; 37Del Cas ; 2.68; 8900;occ; 128; 0;43657
 14; 4259.4; 07-JUL-2010 00:19:18; Bright; 54.0; 73; 57Gam1And ; 2.26; 13100;occ; 108; 0;43657
 15; 4418.4; 07-JUL-2010 00:21:57; Dark ; 76.0; 53; 43Bet And ; 2.05; 3300;occ; 152; 0;43657
 16; 4710.0; 07-JUL-2010 00:26:48; Dark ; 61.0; 50; 13Alp Ari ; 2.01; 4250;occ; 122; 0;43657
 17; 5016.1; 07-JUL-2010 00:31:54; Dark ; 53.5; 94; 92Alp Cet ; 2.53; 3100;occ; 107; 0;43657

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 3; 185.2; 07-JUL-2010 00:51:59; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43658
 4; 565.1; 07-JUL-2010 00:58:19; Dark ; 63.5; 63; Bet Gru ; 2.15; 2800;occ; 127; 0;43658
 5; 719.8; 07-JUL-2010 01:00:54; Dark ; 80.5; 18; 24Alp PsA ; 1.17; 9700;occ; 161; 0;43658
 6; 859.4; 07-JUL-2010 01:03:14; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43658
 7; 2193.7; 07-JUL-2010 01:25:28; Bright; 44.0; 168; 17Zet Aql ; 2.99; 11000;occ; 88; 0;43658
 8; 2616.5; 07-JUL-2010 01:32:31; Bright; 41.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 82; 0;43658
 9; 2856.6; 07-JUL-2010 01:36:31; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43658
 10; 3045.6; 07-JUL-2010 01:39:40; Bright; 81.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 162; 0;43658
 11; 3288.6; 07-JUL-2010 01:43:43; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43658
 12; 3738.8; 07-JUL-2010 01:51:13; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;43658
 13; 3850.2; 07-JUL-2010 01:53:04; Bright; 45.0; 110; 37Del Cas ; 2.68; 8900;occ; 90; 0;43658
 14; 4259.3; 07-JUL-2010 01:59:53; Bright; 52.0; 73; 57Gam1And ; 2.26; 13100;occ; 104; 0;43658
 15; 4418.8; 07-JUL-2010 02:02:33; Dark ; 77.0; 53; 43Bet And ; 2.05; 3300;occ; 154; 0;43658
 16; 4710.9; 07-JUL-2010 02:07:25; Dark ; 66.5; 50; 13Alp Ari ; 2.01; 4250;occ; 133; 0;43658
 17; 5017.2; 07-JUL-2010 02:12:31; Dark ; 55.0; 94; 92Alp Cet ; 2.53; 3100;occ; 110; 0;43658

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 3; 186.6; 07-JUL-2010 02:32:37; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;43659
 4; 566.1; 07-JUL-2010 02:38:56; Dark ; 65.5; 63; Bet Gru ; 2.15; 2800;occ; 131; 0;43659
 5; 721.8; 07-JUL-2010 02:41:32; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43659
 6; 860.6; 07-JUL-2010 02:43:51; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;43659
 7; 2616.4; 07-JUL-2010 03:13:06; Bright; 38.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 76; 0;43659
 8; 2855.7; 07-JUL-2010 03:17:06; Bright; 46.5; 144; 18Del Cyg ; 2.86; 11000;occ; 93; 0;43659
 9; 3044.4; 07-JUL-2010 03:20:14; Bright; 51.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 102; 0;43659
 10; 3288.0; 07-JUL-2010 03:24:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;43659

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 2; -2185.9; 07-JUL-2010 03:33:40; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;43659

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4;-1617.2; 07-JUL-2010 03:43:09; Dark ; 77.0; 53; 43Bet And ; 2.05; 3300;occ; 154; 0;43659
5;-1324.7; 07-JUL-2010 03:48:01; Dark ; 64.0; 50; 13Alp Ari ; 2.01; 4250;occ; 128; 0;43659
6;-1018.5; 07-JUL-2010 03:53:08; Dark ; 52.5; 94; 92Alp Cet ; 2.53; 3100;occ; 105; 0;43659
7; -451.5; 07-JUL-2010 04:02:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43659
8; 0.5; 07-JUL-2010 04:10:06; Dark ; 71.0; 52; 16Bet Cet ; 2.04; 4500;occ; 142; 0;43659
9; 187.6; 07-JUL-2010 04:13:14; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43660
10; 567.3; 07-JUL-2010 04:19:33; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43660
11; 723.1; 07-JUL-2010 04:22:09; Dark ; 82.5; 18; 24Alp PsA ; 1.17; 9700;occ; 165; 0;43660
12; 861.3; 07-JUL-2010 04:24:27; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43660
13; 2192.8; 07-JUL-2010 04:46:39; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43660
14; 2616.1; 07-JUL-2010 04:53:42; Bright; 43.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 86; 0;43660
15; 2855.0; 07-JUL-2010 04:57:41; Bright; 47.5; 144; 18Del Cyg ; 2.86; 11000;occ; 95; 0;43660
16; 3043.1; 07-JUL-2010 05:00:49; Bright; 55.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 111; 0;43660
17; 3287.6; 07-JUL-2010 05:04:54; Bright; 45.0; 89; 5Alp Cep ; 2.45; 8000;occ; 90; 0;43660
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1;-2298.4; 07-JUL-2010 05:12:24; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;43660
2;-2186.3; 07-JUL-2010 05:14:16; Bright; 44.5; 110; 37Del Cas ; 2.68; 8900;occ; 89; 0;43660
3;-1776.7; 07-JUL-2010 05:21:05; Bright; 55.0; 73; 57Gam1And ; 2.26; 13100;occ; 110; 0;43660
4;-1617.2; 07-JUL-2010 05:23:45; Dark ; 71.0; 53; 43Bet And ; 2.05; 3300;occ; 142; 0;43660
5;-1324.5; 07-JUL-2010 05:28:38; Dark ; 71.0; 50; 13Alp Ari ; 2.01; 4250;occ; 142; 0;43660
6;-1017.7; 07-JUL-2010 05:33:44; Dark ; 52.0; 94; 92Alp Cet ; 2.53; 3100;occ; 104; 0;43660
7; -450.5; 07-JUL-2010 05:43:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43660
8; 2.4; 07-JUL-2010 05:50:44; Dark ; 66.0; 52; 16Bet Cet ; 2.04; 4500;occ; 132; 0;43660
9; 188.8; 07-JUL-2010 05:53:51; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 0;43661
10; 568.1; 07-JUL-2010 06:00:10; Dark ; 51.0; 63; Bet Gru ; 2.15; 2800;occ; 102; 0;43661
11; 724.8; 07-JUL-2010 06:02:47; Dark ; 83.0; 18; 24Alp PsA ; 1.17; 9700;occ; 166; 0;43661
12; 862.3; 07-JUL-2010 06:05:04; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;43661
13; 2193.0; 07-JUL-2010 06:27:15; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43661
14; 2619.9; 07-JUL-2010 06:34:22; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;43661
15; 2854.5; 07-JUL-2010 06:38:17; Bright; 46.0; 144; 18Del Cyg ; 2.86; 11000;occ; 92; 0;43661
16; 3041.8; 07-JUL-2010 06:41:24; Bright; 57.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 115; 0;43661
17; 3287.1; 07-JUL-2010 06:45:29; Bright; 44.0; 89; 5Alp Cep ; 2.45; 8000;occ; 88; 0;43661
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2; 2848.1; 07-JUL-2010 21:43:34; Bright; 45.0; 144; 18Del Cyg ; 2.86; 11000;occ; 90; 0;43670
3; 3032.2; 07-JUL-2010 21:46:38; Bright; 56.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 112; 0;43670
4; 3281.1; 07-JUL-2010 21:50:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;43670
5; 3731.7; 07-JUL-2010 21:58:17; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;43670
6; 3846.0; 07-JUL-2010 22:00:12; Bright; 43.0; 110; 37Del Cas ; 2.68; 8900;occ; 86; 0;43670
7; 4258.0; 07-JUL-2010 22:07:04; Bright; 57.5; 73; 57Gam1And ; 2.26; 13100;occ; 115; 0;43670
8; 4418.6; 07-JUL-2010 22:09:44; Dark ; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;43670
9; 4715.8; 07-JUL-2010 22:14:41; Dark ; 63.5; 50; 13Alp Ari ; 2.01; 4250;occ; 127; 0;43670
10; 5023.3; 07-JUL-2010 22:19:49; Dark ; 54.5; 94; 92Alp Cet ; 2.53; 3100;occ; 109; 0;43670
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3; 199.3; 07-JUL-2010 22:40:01; Dark ; 50.5; 84; Alp Phe ; 2.40; 4500;occ; 101; 0;43671
4; 577.2; 07-JUL-2010 22:46:19; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;43671
5; 741.1; 07-JUL-2010 22:49:02; Dark ; 82.0; 18; 24Alp PsA ; 1.17; 9700;occ; 164; 0;43671
6; 871.8; 07-JUL-2010 22:51:13; Dark ; 53.5; 172; Gam Gru ; 3.00; 13100;occ; 107; 0;43671
7; 2189.4; 07-JUL-2010 23:13:11; Bright; 42.0; 168; 17Zet Aql ; 2.99; 11000;occ; 84; 0;43671
8; 2847.5; 07-JUL-2010 23:24:09; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;43671
9; 3031.3; 07-JUL-2010 23:27:13; Bright; 55.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 110; 0;43671
10; 3280.2; 07-JUL-2010 23:31:22; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;43671
11; 3731.1; 07-JUL-2010 23:38:53; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;43671
12; 3845.8; 07-JUL-2010 23:40:47; Bright; 43.0; 110; 37Del Cas ; 2.68; 8900;occ; 86; 0;43671
13; 4257.8; 07-JUL-2010 23:47:39; Bright; 57.0; 73; 57Gam1And ; 2.26; 13100;occ; 114; 0;43671
14; 4418.8; 07-JUL-2010 23:50:20; Dark ; 43.0; 53; 43Bet And ; 2.05; 3300;occ; 86; 0;43671
15; 4715.9; 07-JUL-2010 23:55:17; Dark ; 67.5; 50; 13Alp Ari ; 2.01; 4250;occ; 135; 0;43671
16; 5023.9; 08-JUL-2010 00:00:25; Dark ; 54.5; 94; 92Alp Cet ; 2.53; 3100;occ; 109; 0;43671
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2; 27.9; 08-JUL-2010 00:17:45; Dark ; 41.0; 52; 16Bet Cet ; 2.04; 4500;occ; 82; 0;43672
3; 200.8; 08-JUL-2010 00:20:38; Dark ; 49.5; 84; Alp Phe ; 2.40; 4500;occ; 99; 0;43672
4; 578.0; 08-JUL-2010 00:26:55; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;43672
5; 742.6; 08-JUL-2010 00:29:40; Dark ; 81.0; 18; 24Alp PsA ; 1.17; 9700;occ; 162; 0;43672
6; 872.2; 08-JUL-2010 00:31:49; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;43672

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8; 2846.6; 08-JUL-2010 01:04:44; Bright; 44.5; 144; 18Del Cyg ; 2.86; 11000;occ; 89; 0;43672
9; 3030.1; 08-JUL-2010 01:07:47; Bright; 55.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 110; 0;43672
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12; 3845.4; 08-JUL-2010 01:21:23; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;43672
13; 4257.9; 08-JUL-2010 01:28:15; Bright; 52.5; 73; 57Gam1And ; 2.26; 13100;occ; 105; 0;43672
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2; 30.2; 08-JUL-2010 01:58:23; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;43673
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5; 744.3; 08-JUL-2010 02:10:17; Dark ; 79.0; 18; 24Alp PsA ; 1.17; 9700;occ; 158; 0;43673
6; 873.7; 08-JUL-2010 02:12:27; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;43673
7; 2188.6; 08-JUL-2010 02:34:22; Bright; 44.5; 168; 17Zet Aql ; 2.99; 11000;occ; 89; 0;43673
8; 2846.2; 08-JUL-2010 02:45:19; Bright; 42.5; 144; 18Del Cyg ; 2.86; 11000;occ; 85; 0;43673
9; 3029.0; 08-JUL-2010 02:48:22; Bright; 57.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 114; 0;43673
10; 3279.0; 08-JUL-2010 02:52:32; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;43673
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7; -436.0; 08-JUL-2010 03:31:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43673
8; 32.5; 08-JUL-2010 03:39:02; Dark ; 36.0; 52; 16Bet Cet ; 2.04; 4500;occ; 72; 0;43674
9; 203.1; 08-JUL-2010 03:41:52; Dark ; 50.0; 84; Alp Phe ; 2.40; 4500;occ; 100; 0;43674
10; 580.0; 08-JUL-2010 03:48:09; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;43674
11; 745.9; 08-JUL-2010 03:50:55; Dark ; 81.0; 18; 24Alp PsA ; 1.17; 9700;occ; 162; 0;43674
12; 874.4; 08-JUL-2010 03:53:04; Dark ; 56.0; 172; Gam Gru ; 3.00; 13100;occ; 112; 0;43674
13; 2188.4; 08-JUL-2010 04:14:57; Bright; 43.5; 168; 17Zet Aql ; 2.99; 11000;occ; 87; 0;43674
14; 2845.4; 08-JUL-2010 04:25:55; Bright; 45.5; 144; 18Del Cyg ; 2.86; 11000;occ; 91; 0;43674
15; 3027.9; 08-JUL-2010 04:28:57; Bright; 56.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 113; 0;43674
16; 3278.3; 08-JUL-2010 04:33:07; Bright; 44.5; 89; 5Alp Cep ; 2.45; 8000;occ; 89; 0;43674
17; 3729.4; 08-JUL-2010 04:40:38; Bright; 1.5; 74; 11Bet Cas ; 2.27; 6600;occ; 3; 0;43674
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2; -2191.2; 08-JUL-2010 04:42:34; Bright; 46.0; 110; 37Del Cas ; 2.68; 8900;occ; 92; 0;43674
3; -1778.2; 08-JUL-2010 04:49:27; Bright; 54.5; 73; 57Gam1And ; 2.26; 13100;occ; 109; 0;43674
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5; -1318.3; 08-JUL-2010 04:57:07; Dark ; 63.0; 50; 13Alp Ari ; 2.01; 4250;occ; 126; 0;43674
6; -1010.4; 08-JUL-2010 05:02:15; Dark ; 44.5; 94; 92Alp Cet ; 2.53; 3100;occ; 89; 0;43674
7; -434.9; 08-JUL-2010 05:11:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;43674
8; 34.9; 08-JUL-2010 05:19:40; Dark ; 31.0; 52; 16Bet Cet ; 2.04; 4500;occ; 62; 0;43675
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13; 5271.4; 14-JUL-2010 13:40:51; Dark ; 44.5; 165; 34Gam Eri ; 2.95; 3200;occ; 89; 0;43765
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11; 4633.6; 30-JUL-2010 11:46:46; Dark ; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;43993

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6; 909.0; 30-JUL-2010 22:28:53; Dark ; 52.0; 31; Alp Gru ; 1.73; 15200;occ; 104; 0;44000
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9; 2589.9; 30-JUL-2010 22:56:54; Bright; 41.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 83; 0;44000
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