

GOMOS Daily Report 26-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	29JUL2009 04:51:25
Data source version	GOMOS/5.00
Start time of products	26JUL2009 00:00:20
Stop time of products	26JUL2009 23:40:44
Store outputs in DB	Yes
Nb of level 1b prods	96
Nb of prods with errors	2

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

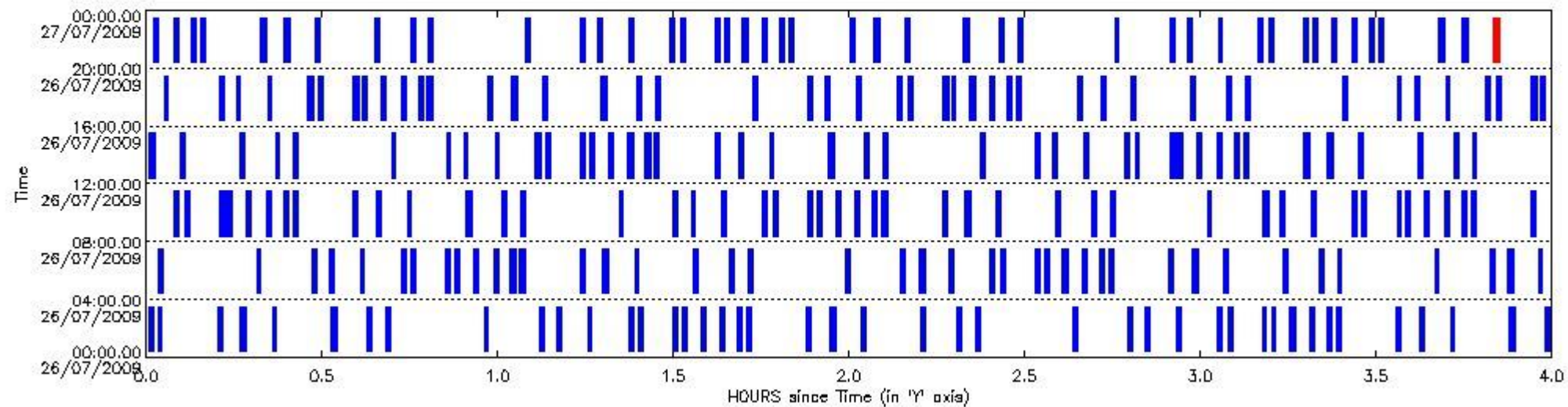
2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
26-JUL-2009 23:50:04	The1Eri	157	38718

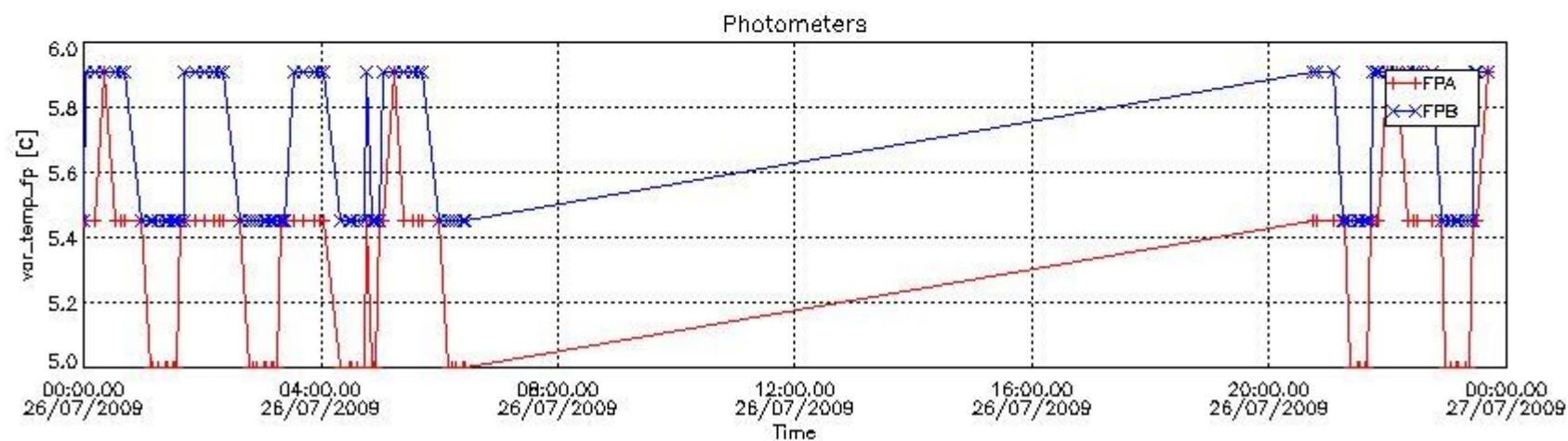
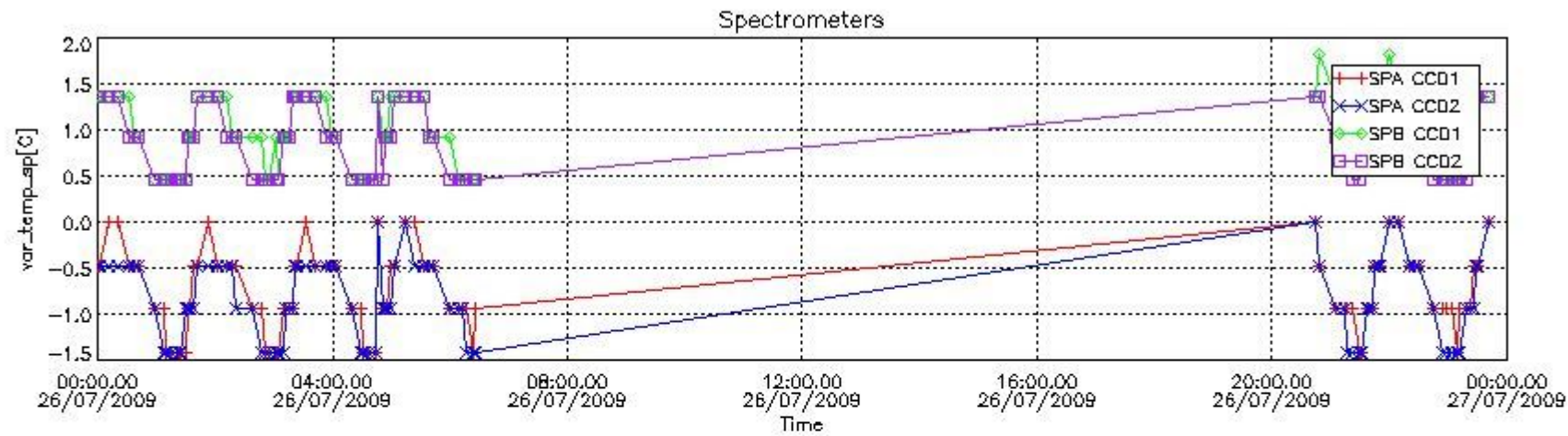
2.4 Summary of processed GOM_TRA_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20090726_000020_000000512081_00073_38704_5010.N1	26-JUL-2009 00:00:20	Dark	51.000	146	25Eta Tau	2.8730	15200.	102	38704	No
2	GOM_TRA_1PNPDE20090726_000155_000000452081_00073_38704_5011.N1	26-JUL-2009 00:01:55	Dark	45.000	13	87Alp Tau	0.86700	3800.0	90	38704	No
3	GOM_TRA_1PNPDE20090726_001210_000000522081_00073_38704_4792.N1	26-JUL-2009 00:12:10	Dark	52.000	165	34Gam Eri	2.9500	3200.0	104	38704	No
4	GOM_TRA_1PNPDE20090726_002130_000000432081_00073_38704_4793.N1	26-JUL-2009 00:21:30	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38704	No
5	GOM_TRA_1PNPDE20090726_003130_000000632081_00074_38705_4794.N1	26-JUL-2009 00:31:30	Straylight	62.500	84	Alp Phe	2.3970	4500.0	125	38705	No
6	GOM_TRA_1PNPDE20090726_003744_000000462081_00074_38705_4795.N1	26-JUL-2009 00:37:44	Straylight	46.000	31	Alp Gru	1.7340	15200.	92	38705	No
7	GOM_TRA_1PNPDE20090726_004055_000000482081_00074_38705_4796.N1	26-JUL-2009 00:40:55	Straylight	48.000	172	Gam Gru	3.0030	13100.	96	38705	No
8	GOM_TRA_1PNPDE20090726_005741_000000402081_00074_38705_4797.N1	26-JUL-2009 00:57:41	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38705	No
9	GOM_TRA_1PNPDE20090726_010704_000000492081_00074_38705_4798.N1	26-JUL-2009 01:07:04	Bright	48.500	92	53Eps Cyg	2.5000	4500.0	97	38705	No
10	GOM_TRA_1PNPDE20090726_011004_000000452081_00074_38705_4799.N1	26-JUL-2009 01:10:04	Bright	44.500	19	50Alp Cyg	1.2460	10500.	89	38705	No

11	GOM_TRA_1PNPDE20090726_011522_000000392081_00074_38705_4800.N1	26-JUL-2009 01:15:22	Bright	38.500	89	5Alp Cep	2.4510	8000.0	77	38705	No
12	GOM_TRA_1PNPDE20090726_012219_000000502081_00074_38705_4801.N1	26-JUL-2009 01:22:19	Bright	50.000	74	11Bet Cas	2.2680	6600.0	100	38705	No
13	GOM_TRA_1PNPDE20090726_012406_000000482081_00074_38705_4802.N1	26-JUL-2009 01:24:06	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	38705	No
14	GOM_TRA_1PNPDE20090726_012959_000000442081_00074_38705_4803.N1	26-JUL-2009 01:29:59	Bright	44.000	160	23Gam Per	2.9300	4700.0	88	38705	No
15	GOM_TRA_1PNPDE20090726_013131_000000482081_00074_38705_4804.N1	26-JUL-2009 01:31:31	Bright	47.500	35	33Alp Per	1.7950	6250.0	95	38705	No
16	GOM_TRA_1PNPDE20090726_013439_000000522081_00074_38705_4805.N1	26-JUL-2009 01:34:39	Bright	52.000	79	26Bet Per	2.3100	13100.	104	38705	No
17	GOM_TRA_1PNPDE20090726_013801_000000512081_00074_38705_4806.N1	26-JUL-2009 01:38:01	Tw_i_and_stray	50.500	150	44Zet Per	2.8900	28000.	101	38705	No
18	GOM_TRA_1PNPDE20090726_014056_000000522081_00074_38705_4807.N1	26-JUL-2009 01:40:56	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38705	No
19	GOM_TRA_1PNPDE20090726_014231_000000512081_00074_38705_4808.N1	26-JUL-2009 01:42:31	Dark	51.000	13	87Alp Tau	0.86700	3800.0	102	38705	No
20	GOM_TRA_1PNPDE20090726_015247_000000502081_00074_38705_6867.N1	26-JUL-2009 01:52:47	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	38705	No
21	GOM_TRA_1PNPDE20090726_020206_000000432081_00074_38705_6868.N1	26-JUL-2009 02:02:06	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38705	No
22	GOM_TRA_1PNPDE20090726_021207_000000562081_00075_38706_6869.N1	26-JUL-2009 02:12:07	Straylight	56.000	84	Alp Phe	2.3970	4500.0	112	38706	No
23	GOM_TRA_1PNPDE20090726_021820_000000482081_00075_38706_6870.N1	26-JUL-2009 02:18:20	Straylight	47.500	31	Alp Gru	1.7340	15200.	95	38706	No
24	GOM_TRA_1PNPDE20090726_022132_000000472081_00075_38706_6871.N1	26-JUL-2009 02:21:32	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38706	No
25	GOM_TRA_1PNPDE20090726_023817_000000432081_00075_38706_6872.N1	26-JUL-2009 02:38:17	Bright	43.000	11	53Alp Aql	0.76500	8000.0	86	38706	No
26	GOM_TRA_1PNPDE20090726_024740_000000492081_00075_38706_6873.N1	26-JUL-2009 02:47:40	Bright	48.500	92	53Eps Cyg	2.5000	4500.0	97	38706	No
27	GOM_TRA_1PNPDE20090726_025040_000000432081_00075_38706_6874.N1	26-JUL-2009 02:50:40	Bright	43.000	19	50Alp Cyg	1.2460	10500.	86	38706	No
28	GOM_TRA_1PNPDE20090726_025558_000000412081_00075_38706_6875.N1	26-JUL-2009 02:55:58	Bright	40.500	89	5Alp Cep	2.4510	8000.0	81	38706	No
29	GOM_TRA_1PNPDE20090726_030254_000000502081_00075_38706_6874.N1	26-JUL-2009 03:02:54	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38706	No
30	GOM_TRA_1PNPDE20090726_030441_000000482081_00075_38706_6875.N1	26-JUL-2009 03:04:41	Bright	48.000	76	27Gam Cas	2.3000	30000.	96	38706	No
31	GOM_TRA_1PNPDE20090726_031034_000000432081_00075_38706_6876.N1	26-JUL-2009 03:10:34	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	38706	No
32	GOM_TRA_1PNPDE20090726_031206_000000452081_00075_38706_6877.N1	26-JUL-2009 03:12:06	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	38706	No
33	GOM_TRA_1PNPDE20090726_031515_000000532081_00075_38706_6878.N1	26-JUL-2009 03:15:15	Bright	53.000	79	26Bet Per	2.3100	13100.	106	38706	No
34	GOM_TRA_1PNPDE20090726_031837_000000492081_00075_38706_6879.N1	26-JUL-2009 03:18:37	Tw_i_and_stray	48.500	150	44Zet Per	2.8900	28000.	97	38706	No
35	GOM_TRA_1PNPDE20090726_032132_000000532081_00075_38706_6880.N1	26-JUL-2009 03:21:32	Dark	52.500	146	25Eta Tau	2.8730	15200.	105	38706	No
36	GOM_TRA_1PNPDE20090726_032307_000000522081_00075_38706_6881.N1	26-JUL-2009 03:23:07	Dark	52.000	13	87Alp Tau	0.86700	3800.0	104	38706	No
37	GOM_TRA_1PNPDE20090726_033324_000000502081_00075_38706_6882.N1	26-JUL-2009 03:33:24	Dark	49.500	165	34Gam Eri	2.9500	3200.0	99	38706	No
38	GOM_TRA_1PNPDE20090726_034243_000000432081_00075_38706_6883.N1	26-JUL-2009 03:42:43	Dark	43.000	157	The1Eri	2.9060	9300.0	86	38706	No
39	GOM_TRA_1PNPDE20090726_035245_000000532081_00076_38707_6884.N1	26-JUL-2009 03:52:45	Straylight	53.000	84	Alp Phe	2.3970	4500.0	106	38707	No
40	GOM_TRA_1PNPDE20090726_035857_000000452081_00076_38707_6885.N1	26-JUL-2009 03:58:57	Straylight	44.500	31	Alp Gru	1.7340	15200.	89	38707	No
41	GOM_TRA_1PNPDE20090726_040208_000000472081_00076_38707_6886.N1	26-JUL-2009 04:02:08	Straylight	47.000	172	Gam Gru	3.0030	13100.	94	38707	No
42	GOM_TRA_1PNPDE20090726_041852_000000422081_00076_38707_6887.N1	26-JUL-2009 04:18:52	Bright	41.500	11	53Alp Aql	0.76500	8000.0	83	38707	No
43	GOM_TRA_1PNPDE20090726_042815_000000482081_00076_38707_6888.N1	26-JUL-2009 04:28:15	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	38707	No
44	GOM_TRA_1PNPDE20090726_043115_000000442081_00076_38707_6889.N1	26-JUL-2009 04:31:15	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38707	No
45	GOM_TRA_1PNPDE20090726_043633_000000422081_00076_38707_6890.N1	26-JUL-2009 04:36:33	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38707	No
46	GOM_TRA_1PNPDE20090726_044330_000000502081_00076_38707_6891.N1	26-JUL-2009 04:43:30	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38707	No
47	GOM_TRA_1PNPDE20090726_044516_000000482081_00076_38707_6879.N1	26-JUL-2009 04:45:16	Bright	47.500	76	27Gam Cas	2.3000	30000.	95	38707	Yes
48	GOM_TRA_1PNPDE20090726_045110_000000452081_00076_38707_6880.N1	26-JUL-2009 04:51:10	Bright	44.500	160	23Gam Per	2.9300	4700.0	89	38707	No
49	GOM_TRA_1PNPDE20090726_045242_000000462081_00076_38707_6881.N1	26-JUL-2009 04:52:42	Bright	45.500	35	33Alp Per	1.7950	6250.0	91	38707	No
50	GOM_TRA_1PNPDE20090726_045551_000000552081_00076_38707_6882.N1	26-JUL-2009 04:55:51	Bright	55.000	79	26Bet Per	2.3100	13100.	110	38707	No
51	GOM_TRA_1PNPDE20090726_045914_000000512081_00076_38707_6883.N1	26-JUL-2009 04:59:14	Tw_i_and_stray	50.500	150	44Zet Per	2.8900	28000.	101	38707	No
52	GOM_TRA_1PNPDE20090726_050208_000000522081_00076_38707_6884.N1	26-JUL-2009 05:02:08	Dark	51.500	146	25Eta Tau	2.8730	15200.	103	38707	No
53	GOM_TRA_1PNPDE20090726_050344_000000532081_00076_38707_6885.N1	26-JUL-2009 05:03:44	Dark	53.000	13	87Alp Tau	0.86700	3800.0	106	38707	No
54	GOM_TRA_1PNPDE20090726_051400_000000522081_00076_38707_6886.N1	26-JUL-2009 05:14:00	Dark	51.500	165	34Gam Eri	2.9500	3200.0	103	38707	No
55	GOM_TRA_1PNPDE20090726_052320_000000442081_00076_38707_6887.N1	26-JUL-2009 05:23:20	Dark	44.000	157	The1Eri	2.9060	9300.0	88	38707	No
56	GOM_TRA_1PNPDE20090726_053322_000000552081_00077_38708_6888.N1	26-JUL-2009 05:33:22	Straylight	55.000	84	Alp Phe	2.3970	4500.0	110	38708	No
57	GOM_TRA_1PNPDE20090726_053933_000000442081_00077_38708_6889.N1	26-JUL-2009 05:39:33	Straylight	43.500	31	Alp Gru	1.7340	15200.	87	38708	No
58	GOM_TRA_1PNPDE20090726_054245_000000472081_00077_38708_6890.N1	26-JUL-2009 05:42:45	Straylight	46.500	172	Gam Gru	3.0030	13100.	93	38708	No
59	GOM_TRA_1PNPDE20090726_055928_000000422081_00077_38708_6891.N1	26-JUL-2009 05:59:28	Bright	42.000	11	53Alp Aql	0.76500	8000.0	84	38708	No
60	GOM_TRA_1PNPDE20090726_060850_000000482081_00077_38708_6892.N1	26-JUL-2009 06:08:50	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	38708	No
61	GOM_TRA_1PNPDE20090726_061151_000000642081_00077_38708_6893.N1	26-JUL-2009 06:11:51	Bright	64.000	19	50Alp Cyg	1.2460	10500.	128	38708	No
62	GOM_TRA_1PNPDE20090726_061709_000000432081_00077_38708_6894.N1	26-JUL-2009 06:17:09	Bright	42.500	89	5Alp Cep	2.4510	8000.0	85	38708	No
63	GOM_TRA_1PNPDE20090726_062405_000000502081_00077_38708_6895.N1	26-JUL-2009 06:24:05	Bright	49.500	74	11Bet Cas	2.2680	6600.0	99	38708	No
64	GOM_TRA_1PNPDE20090726_062551_000000152081_00077_38708_6896.N1	26-JUL-2009 06:25:51	Tw_i_and_stray	14.500	76	27Gam Cas	2.3000	30000.	29	38708	No
65	GOM_TRA_1PNPDE20090726_204502_000000512081_00086_38717_5820.N1	26-JUL-2009 20:45:02	Straylight	51.000	31	Alp Gru	1.7340	15200.	102	38717	Yes
66	GOM_TRA_1PNPDE20090726_204813_000000482081_00086_38717_5821.N1	26-JUL-2009 20:48:13	Straylight	47.500	172	Gam Gru	3.0030	13100.	95	38717	No
67	GOM_TRA_1PNPDE20090726_210451_000000402081_00086_38717_5822.N1	26-JUL-2009 21:04:51	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38717	No
68	GOM_TRA_1PNPDE20090726_211408_000000432081_00086_38717_5823.N1	26-JUL-2009 21:14:08	Bright	43.000	92	53Eps Cyg	2.5000	4500.0	86	38717	No
69	GOM_TRA_1PNPDE20090726_211709_000000442081_00086_38717_5824.N1	26-JUL-2009 21:17:09	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38717	No

70	GOM_TRA_1PNPDE20090726_212228_000000422081_00086_38717_5825.N1	26-JUL-2009 21:22:28	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38717	No
71	GOM_TRA_1PNPDE20090726_212921_000000512081_00086_38717_5826.N1	26-JUL-2009 21:29:21	Bright	50.500	74	11Bet Cas	2.2680	6600.0	101	38717	No
72	GOM_TRA_1PNPDE20090726_213109_000000492081_00086_38717_5827.N1	26-JUL-2009 21:31:09	Bright	48.500	76	27Gam Cas	2.3000	30000.	97	38717	No
73	GOM_TRA_1PNPDE20090726_213706_000000432081_00086_38717_5828.N1	26-JUL-2009 21:37:06	Bright	43.000	160	23Gam Per	2.9300	4700.0	86	38717	No
74	GOM_TRA_1PNPDE20090726_213839_000000462081_00086_38717_5829.N1	26-JUL-2009 21:38:39	Bright	45.500	35	33Alp Per	1.7950	6250.0	91	38717	No
75	GOM_TRA_1PNPDE20090726_214149_000000542081_00086_38717_5830.N1	26-JUL-2009 21:41:49	Bright	54.000	79	26Bet Per	2.3100	13100.	108	38717	No
76	GOM_TRA_1PNPDE20090726_214514_000000512081_00086_38717_5831.N1	26-JUL-2009 21:45:14	Tw_i_and_stray	51.000	150	44Zet Per	2.8900	28000.	102	38717	No
77	GOM_TRA_1PNPDE20090726_214811_000000512081_00086_38717_5832.N1	26-JUL-2009 21:48:11	Dark	51.000	146	25Eta Tau	2.8730	15200.	102	38717	No
78	GOM_TRA_1PNPDE20090726_214946_000000512081_00086_38717_5833.N1	26-JUL-2009 21:49:46	Dark	51.000	13	87Alp Tau	0.86700	3800.0	102	38717	No
79	GOM_TRA_1PNPDE20090726_220007_000000522081_00086_38717_6862.N1	26-JUL-2009 22:00:07	Dark	52.000	165	34Gam Eri	2.9500	3200.0	104	38717	No
80	GOM_TRA_1PNPDE20090726_220928_000000462081_00086_38717_6863.N1	26-JUL-2009 22:09:28	Dark	45.500	157	The1Eri	2.9060	9300.0	91	38717	No
81	GOM_TRA_1PNPDE20090726_221932_000000542081_00087_38718_6864.N1	26-JUL-2009 22:19:32	Straylight	54.000	84	Alp Phe	2.3970	4500.0	108	38718	No
82	GOM_TRA_1PNPDE20090726_222538_000000442081_00087_38718_6865.N1	26-JUL-2009 22:25:38	Straylight	44.000	31	Alp Gru	1.7340	15200.	88	38718	No
83	GOM_TRA_1PNPDE20090726_222850_000000462081_00087_38718_6866.N1	26-JUL-2009 22:28:50	Straylight	46.000	172	Gam Gru	3.0030	13100.	92	38718	No
84	GOM_TRA_1PNPDE20090726_224526_000000402081_00087_38718_6867.N1	26-JUL-2009 22:45:26	Bright	40.000	11	53Alp Aql	0.76500	8000.0	80	38718	No
85	GOM_TRA_1PNPDE20090726_225443_000000482081_00087_38718_6868.N1	26-JUL-2009 22:54:43	Bright	48.000	92	53Eps Cyg	2.5000	4500.0	96	38718	No
86	GOM_TRA_1PNPDE20090726_225744_000000442081_00087_38718_6869.N1	26-JUL-2009 22:57:44	Bright	44.000	19	50Alp Cyg	1.2460	10500.	88	38718	No
87	GOM_TRA_1PNPDE20090726_230303_000000422081_00087_38718_6870.N1	26-JUL-2009 23:03:03	Bright	41.500	89	5Alp Cep	2.4510	8000.0	83	38718	No
88	GOM_TRA_1PNPDE20090726_230956_000000492081_00087_38718_6871.N1	26-JUL-2009 23:09:56	Bright	49.000	74	11Bet Cas	2.2680	6600.0	98	38718	No
89	GOM_TRA_1PNPDE20090726_231144_000000512081_00087_38718_6872.N1	26-JUL-2009 23:11:44	Bright	50.500	76	27Gam Cas	2.3000	30000.	101	38718	No
90	GOM_TRA_1PNPDE20090726_231742_000000442081_00087_38718_6873.N1	26-JUL-2009 23:17:42	Bright	43.500	160	23Gam Per	2.9300	4700.0	87	38718	No
91	GOM_TRA_1PNPDE20090726_231915_000000452081_00087_38718_6874.N1	26-JUL-2009 23:19:15	Bright	45.000	35	33Alp Per	1.7950	6250.0	90	38718	No
92	GOM_TRA_1PNPDE20090726_232225_000000552081_00087_38718_6875.N1	26-JUL-2009 23:22:25	Bright	55.000	79	26Bet Per	2.3100	13100.	110	38718	No
93	GOM_TRA_1PNPDE20090726_232550_000000502081_00087_38718_6876.N1	26-JUL-2009 23:25:50	Tw_i_and_stray	49.500	150	44Zet Per	2.8900	28000.	99	38718	No
94	GOM_TRA_1PNPDE20090726_232847_000000532081_00087_38718_6877.N1	26-JUL-2009 23:28:47	Dark	52.500	146	25Eta Tau	2.8730	15200.	105	38718	No
95	GOM_TRA_1PNPDE20090726_233023_000000502081_00087_38718_6878.N1	26-JUL-2009 23:30:23	Dark	49.500	13	87Alp Tau	0.86700	3800.0	99	38718	No
96	GOM_TRA_1PNPDE20090726_234044_000000532081_00087_38718_6137.N1	26-JUL-2009 23:40:44	Dark	52.500	165	34Gam Eri	2.9500	3200.0	105	38718	No

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



4. Overview of dark signal processing per product

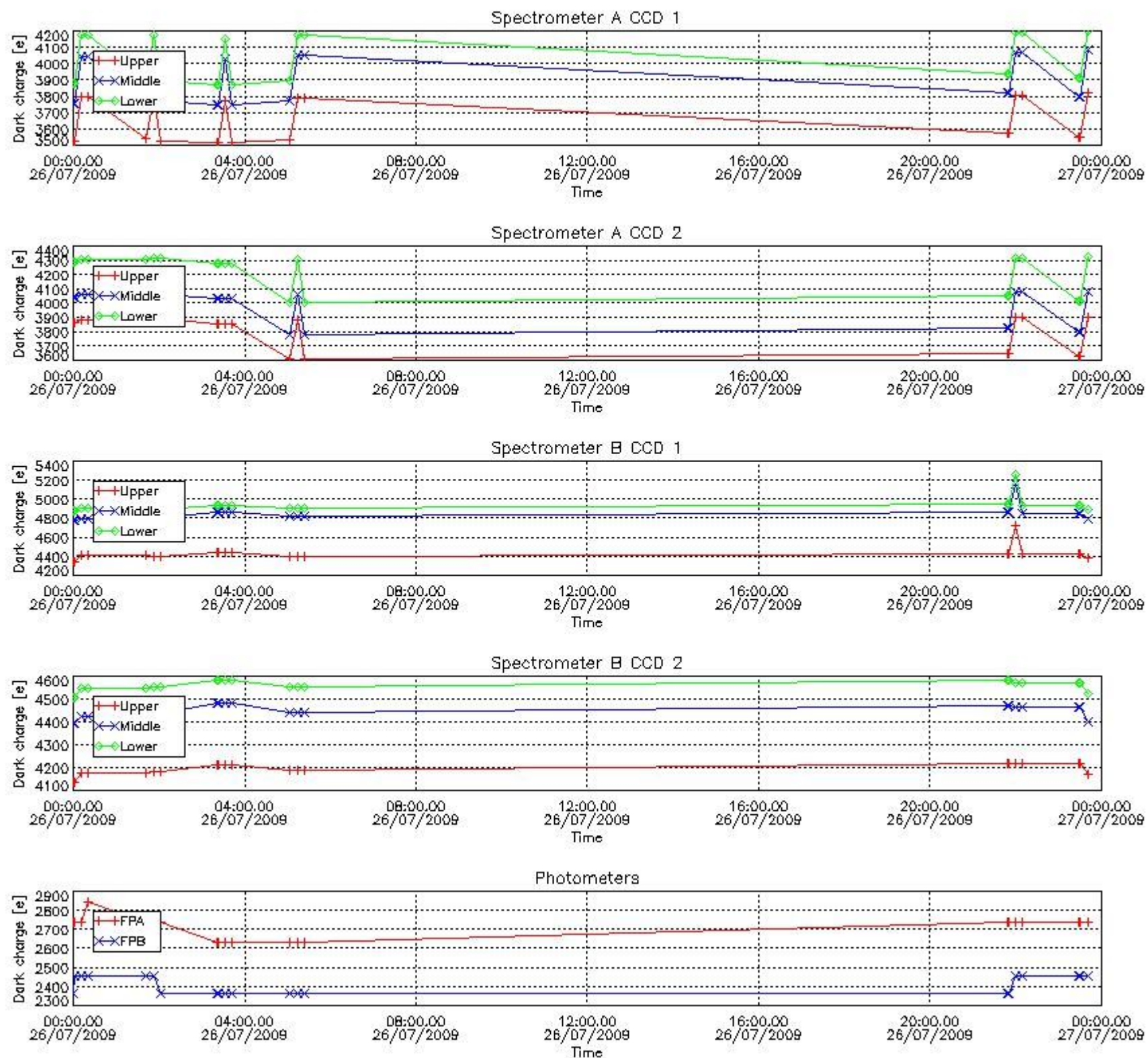
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20090726_204502_000000512081_00086_38717_5820.N1	DC map with no T dep.
GOM_TRA_1PNPDE20090726_204813_000000482081_00086_38717_5821.N1	DC map used
GOM_TRA_1PNPDE20090726_210451_000000402081_00086_38717_5822.N1	DC map used
GOM_TRA_1PNPDE20090726_211408_000000432081_00086_38717_5823.N1	DC map used
GOM_TRA_1PNPDE20090726_211709_000000442081_00086_38717_5824.N1	DC map used
GOM_TRA_1PNPDE20090726_212228_000000422081_00086_38717_5825.N1	DC map used
GOM_TRA_1PNPDE20090726_212921_000000512081_00086_38717_5826.N1	DC map used
GOM_TRA_1PNPDE20090726_213109_000000492081_00086_38717_5827.N1	DC map used
GOM_TRA_1PNPDE20090726_213706_000000432081_00086_38717_5828.N1	DC map used
GOM_TRA_1PNPDE20090726_213839_000000462081_00086_38717_5829.N1	DC map used
GOM_TRA_1PNPDE20090726_214149_000000542081_00086_38717_5830.N1	DC map used
GOM_TRA_1PNPDE20090726_214514_000000512081_00086_38717_5831.N1	DC map used
GOM_TRA_1PNPDE20090726_214811_000000512081_00086_38717_5832.N1	DC map used
GOM_TRA_1PNPDE20090726_214946_000000512081_00086_38717_5833.N1	DC map used

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



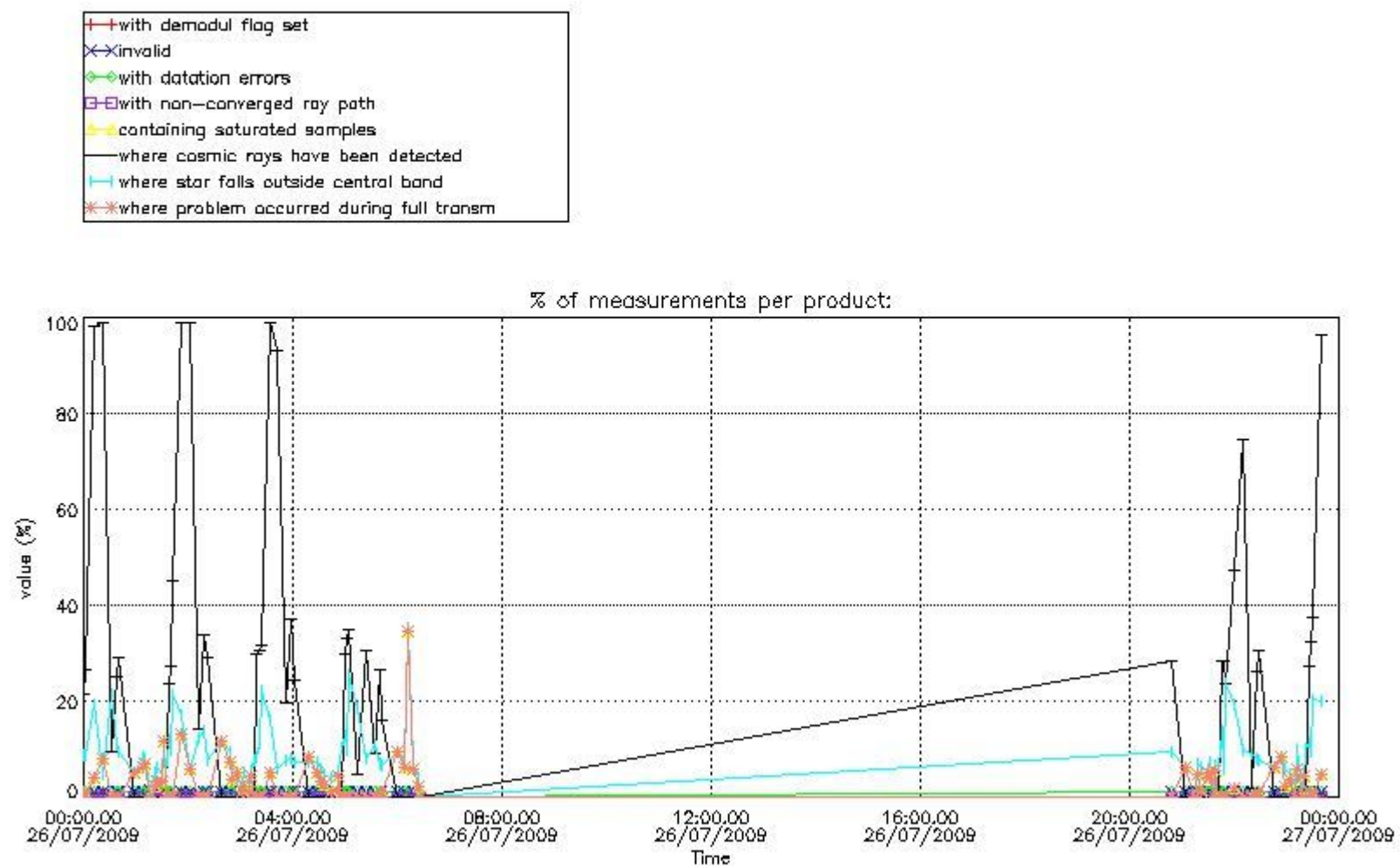
5. Demodulation flag and quality information monitoring

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.

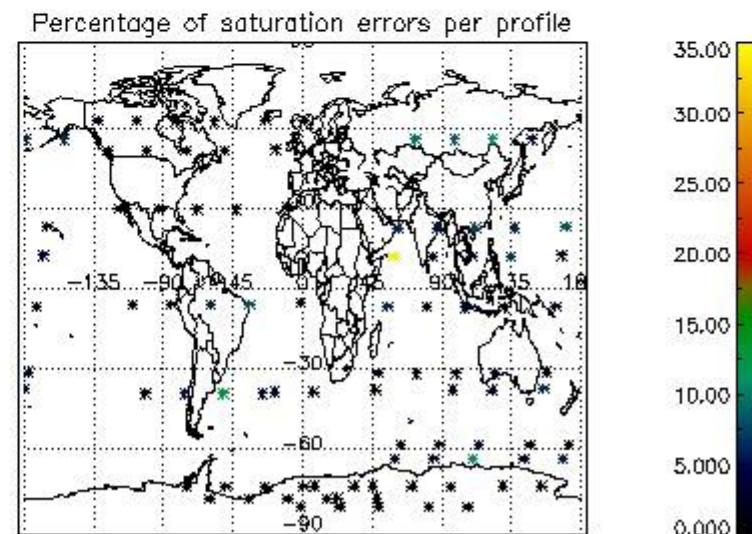
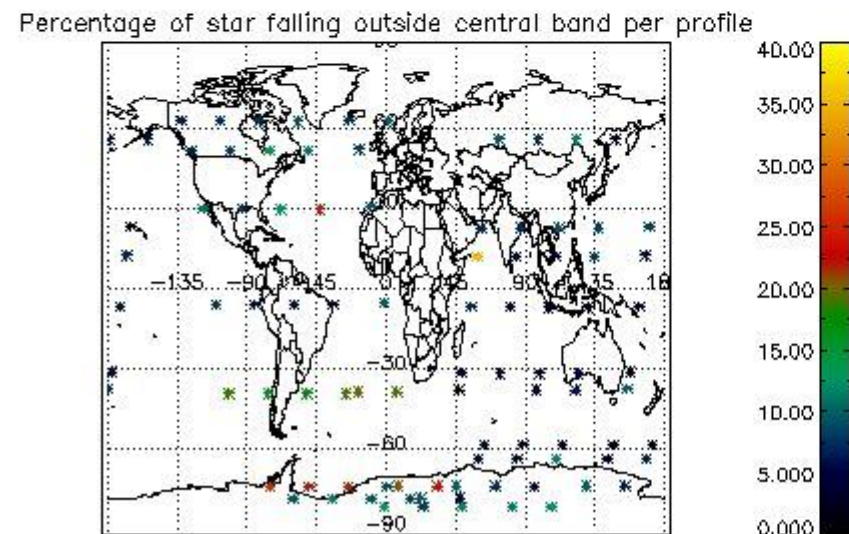
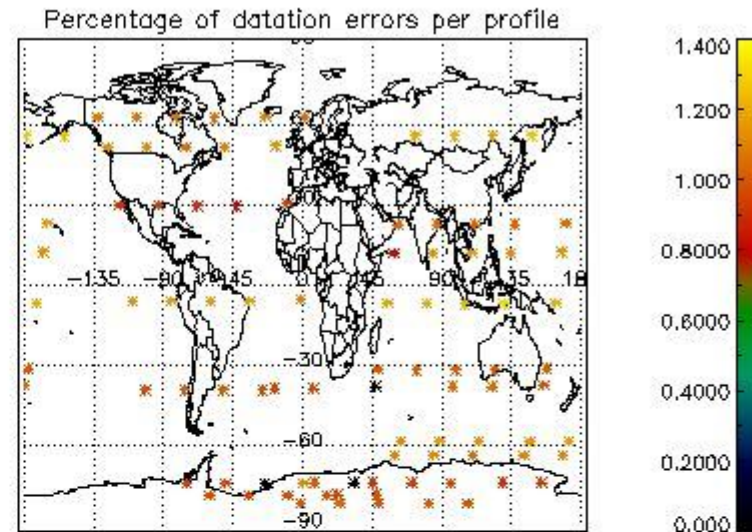
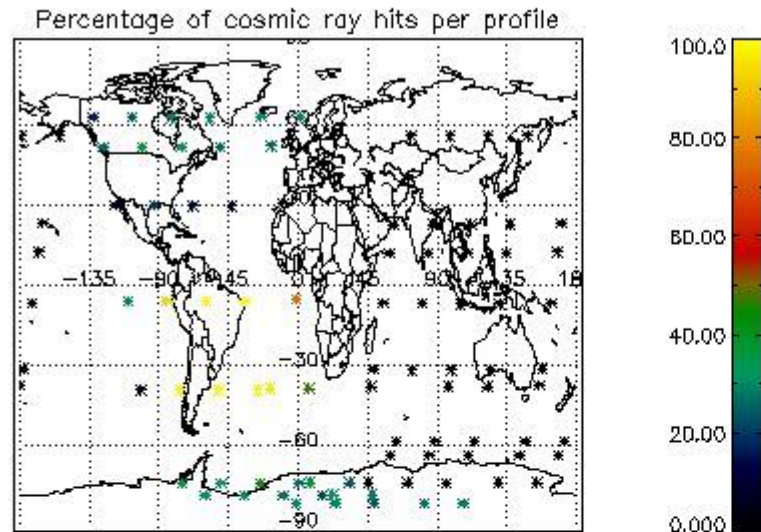
5.1 Percentage of products during reporting period with:

At least one measurement with demodulation flag set:	24.4681 %
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)



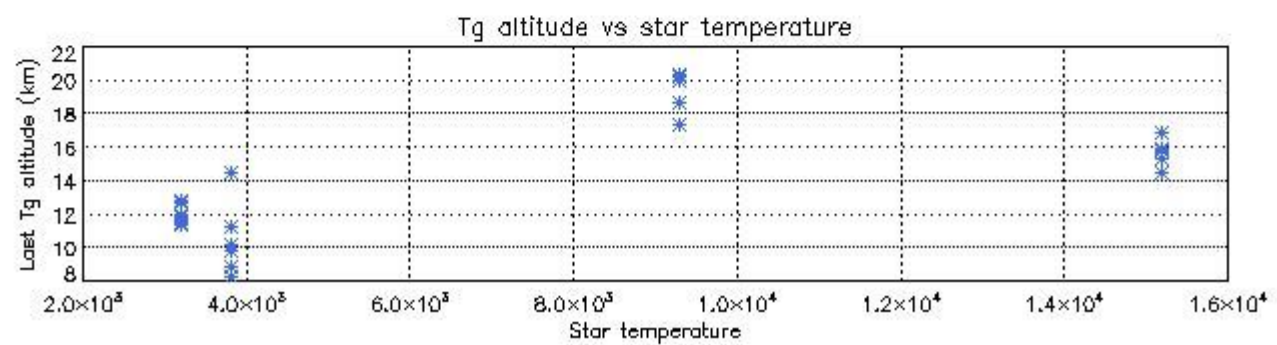
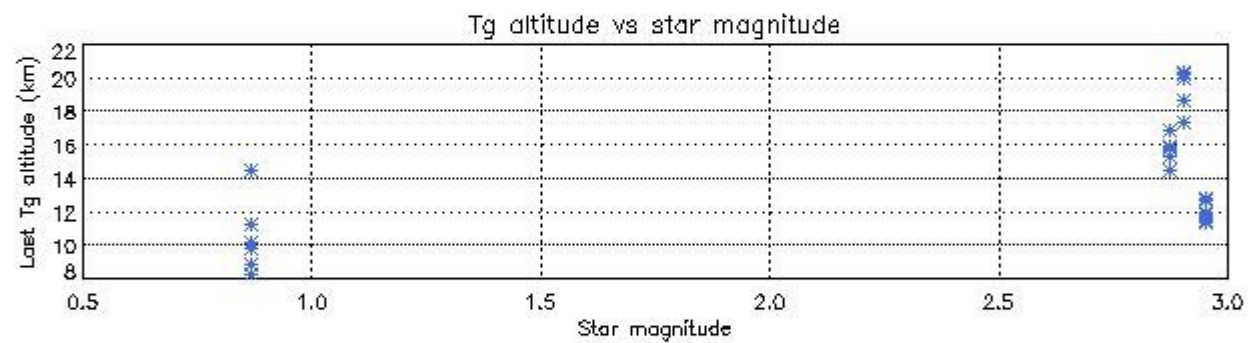
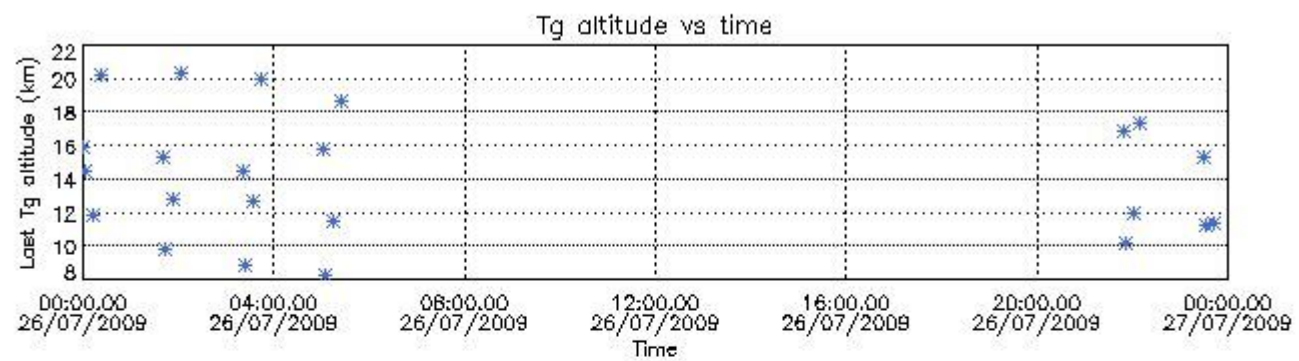
6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.122	20.231	NaN
St. deviation:	3.6390	3.5561	NaN
Maximum:	20.309	26.913	NaN
Minimum:	8.2652	2.9500	NaN
Number of data:	23.000	49.000	NaN

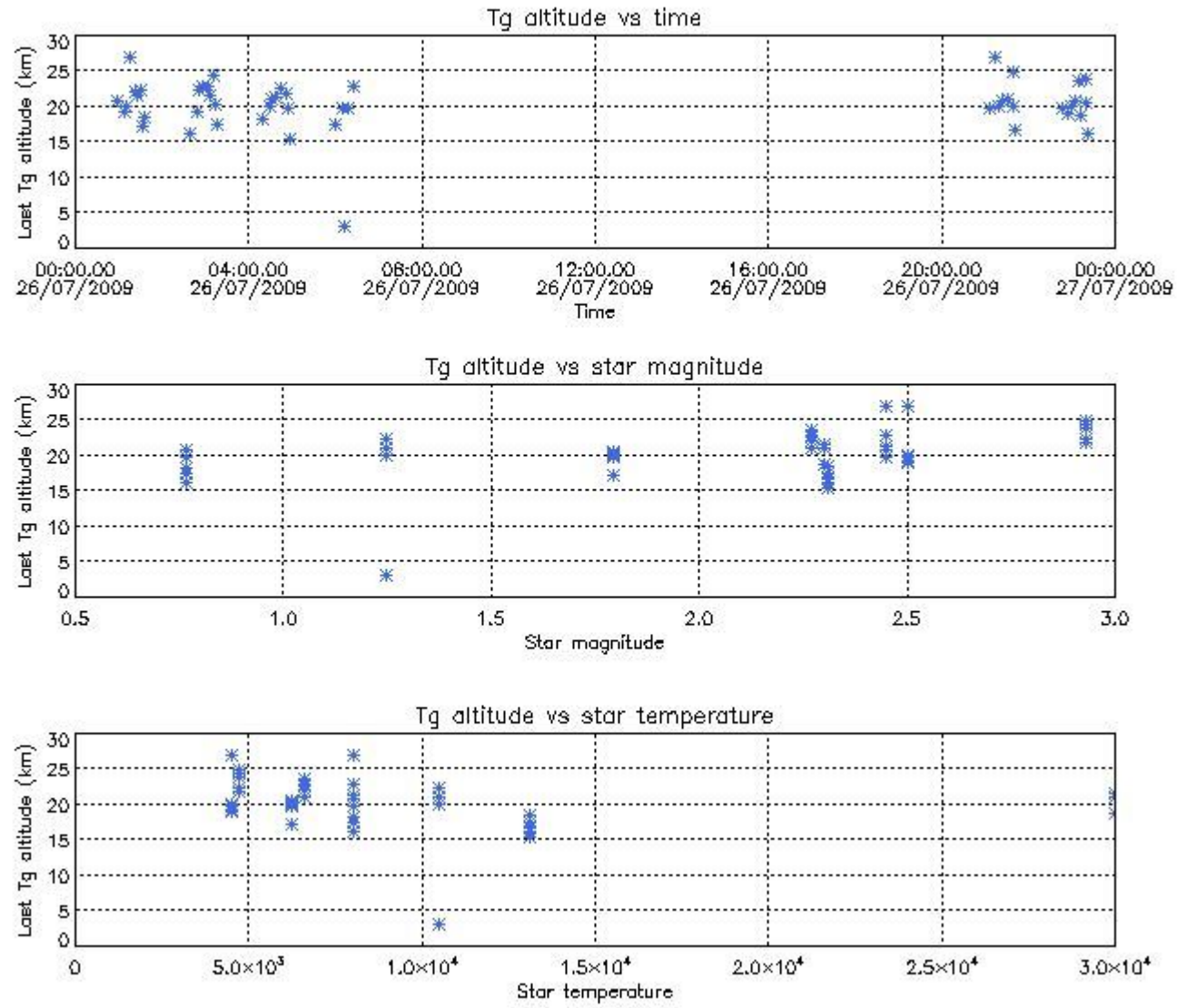
6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost

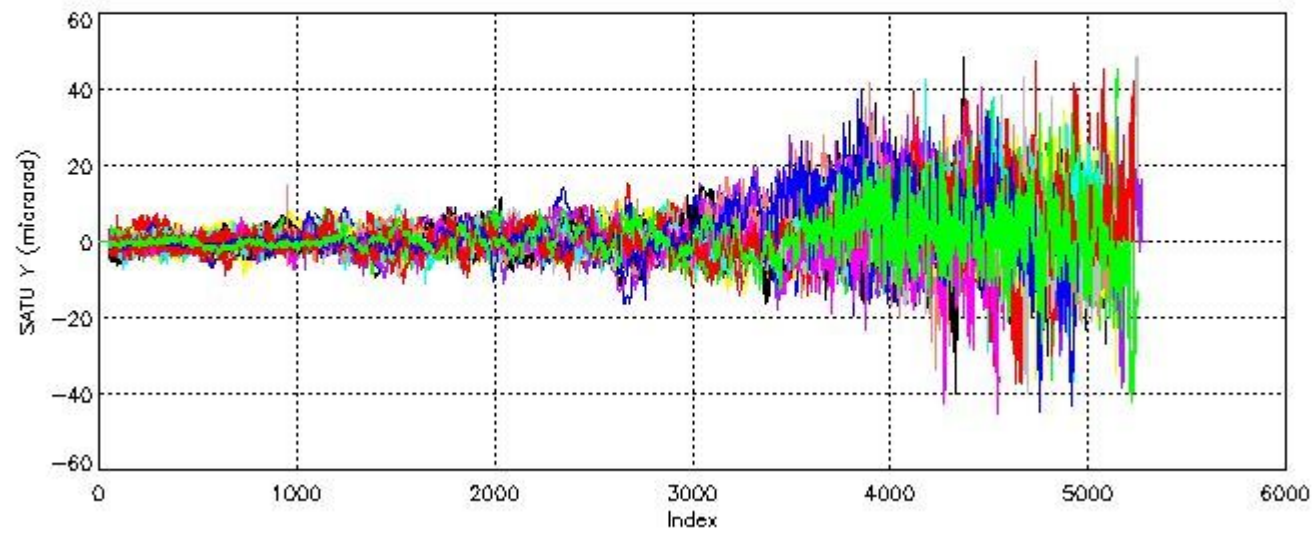
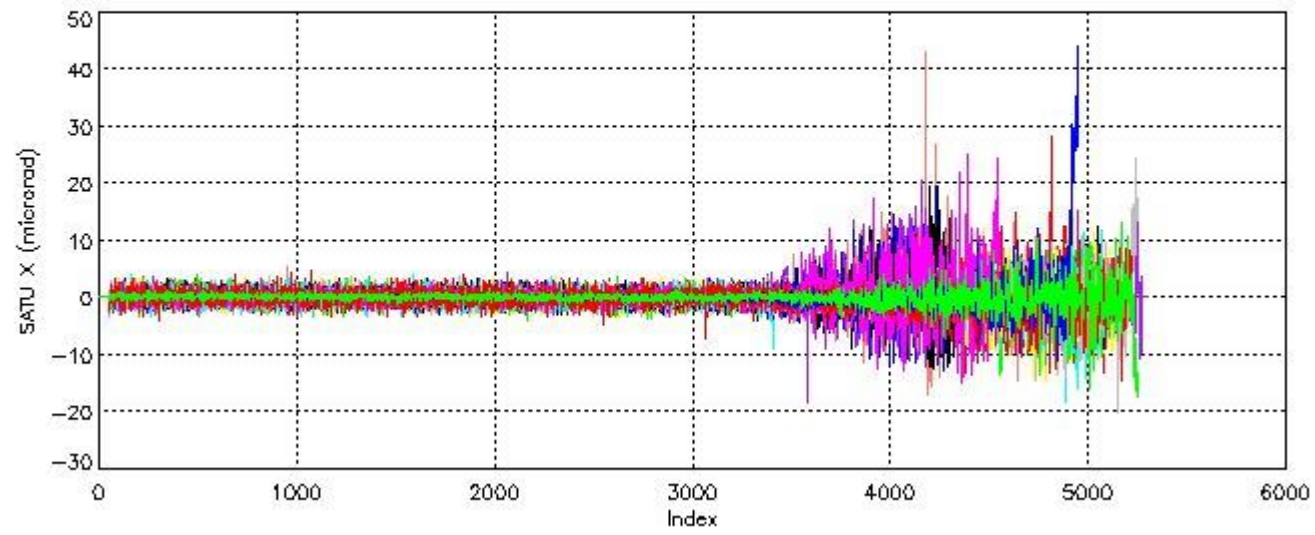


7. Star Acquisition and Tracking Unit (SATU)

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:	0.17727	-0.34938	0.25434	-0.41972
St. deviation:	0.61844	1.4910	0.61509	1.1837
Maximum:	5.3000	14.700	3.7000	8.1000
Minimum:	-4.1000	-9.2000	-3.5000	-6.2000

Number of data:	23900.	23900.	52400.	52400.
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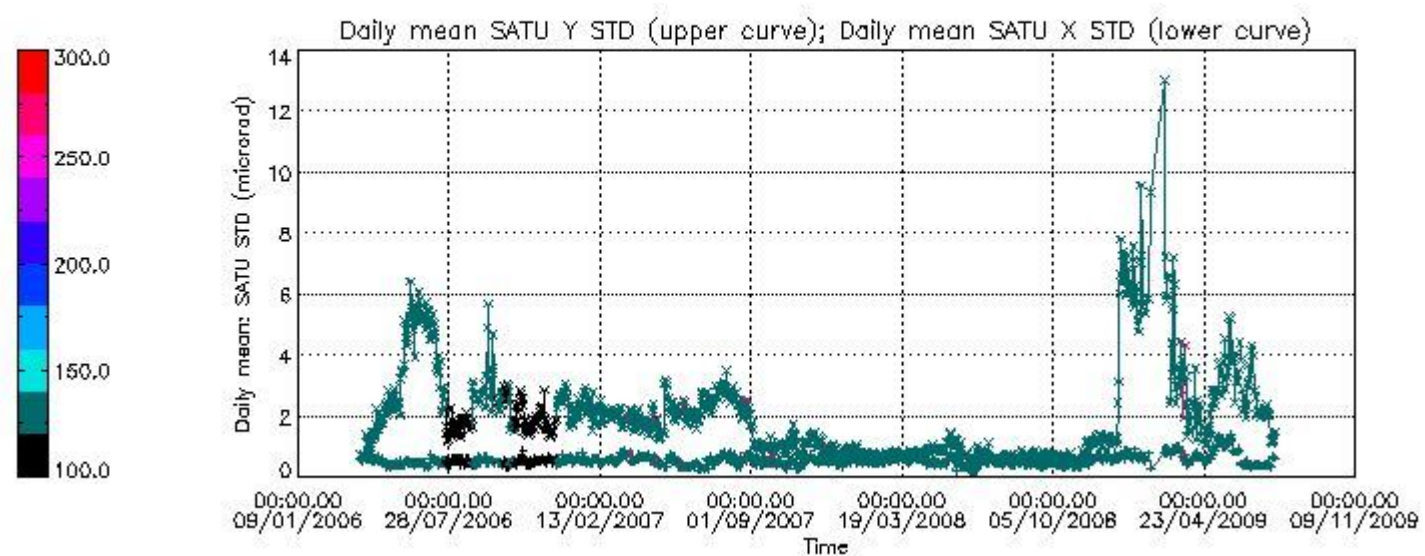
7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

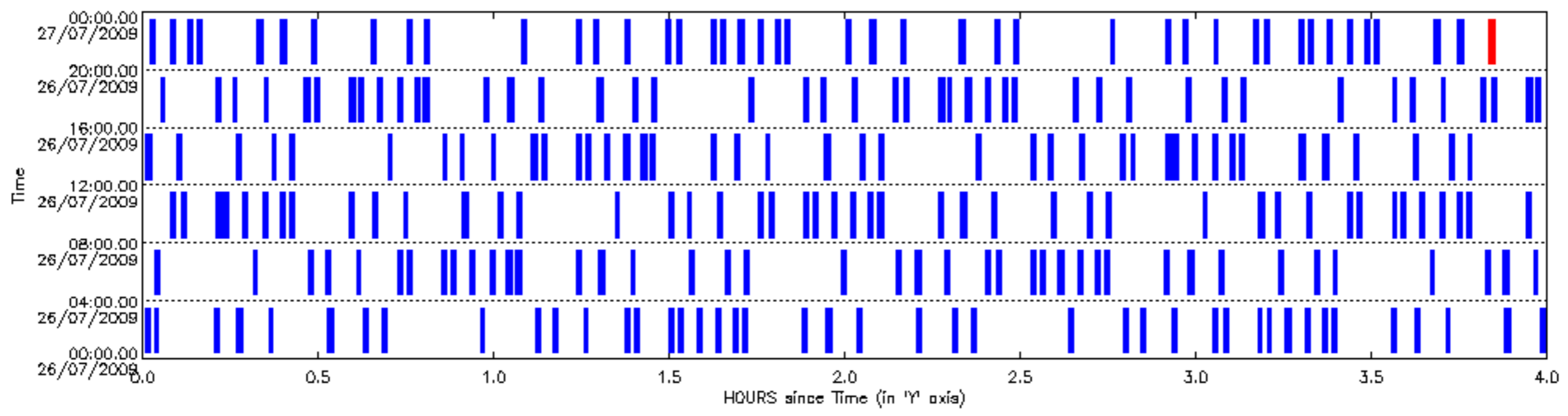
Lower curve: STD of SATU X axis

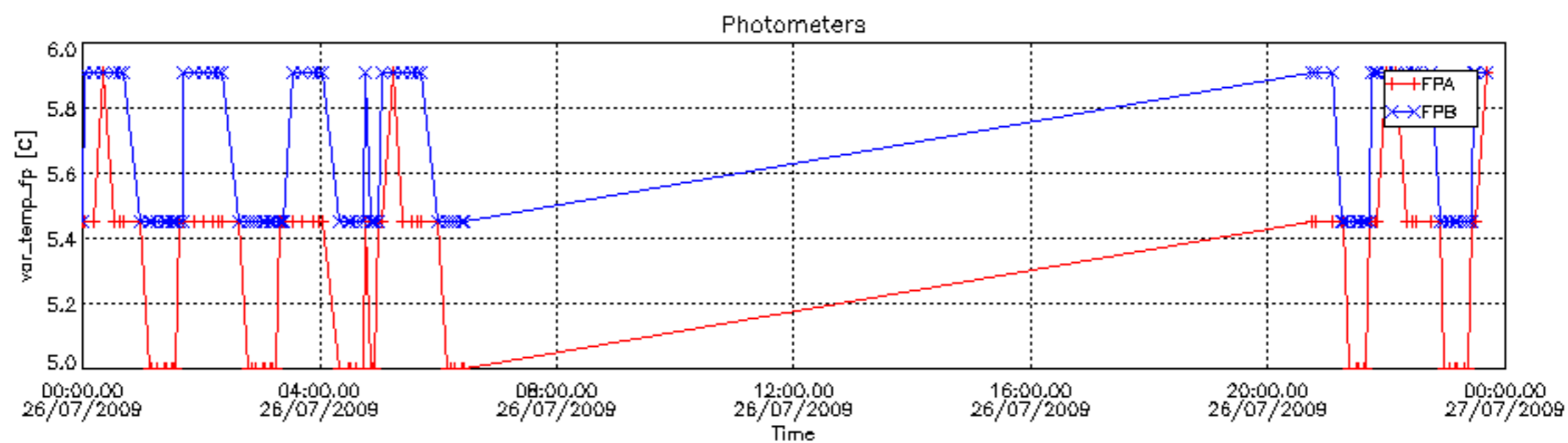
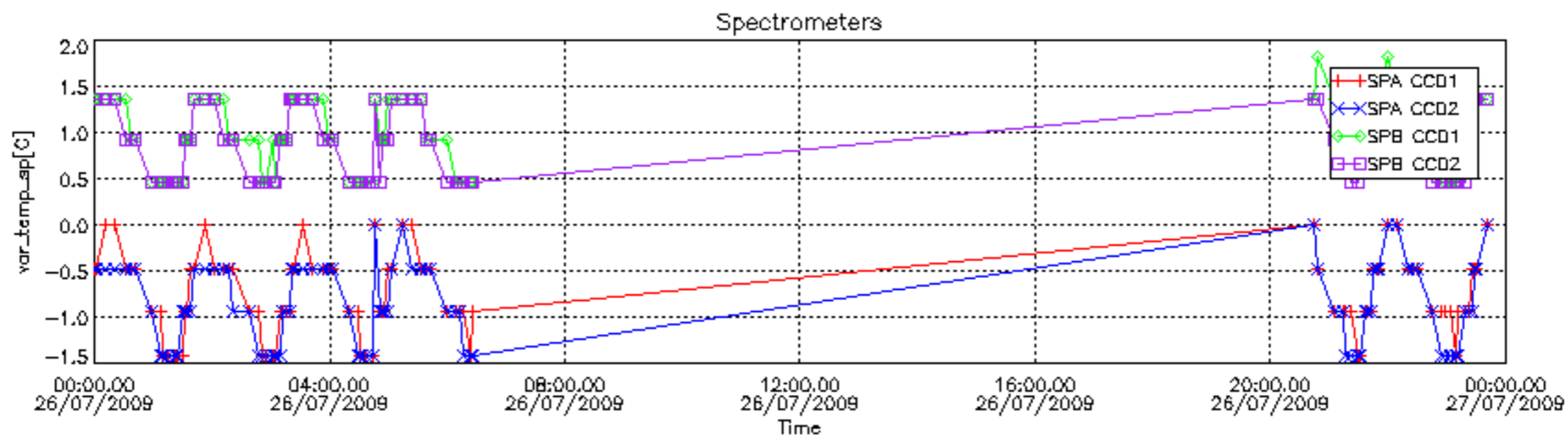


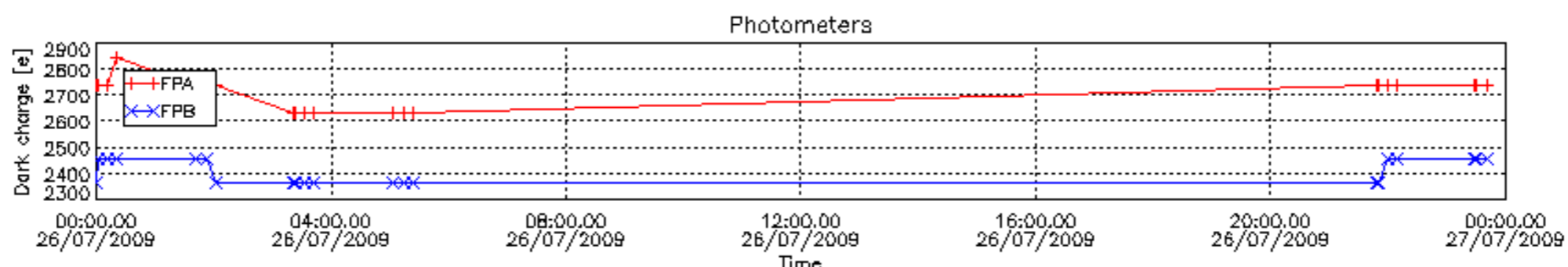
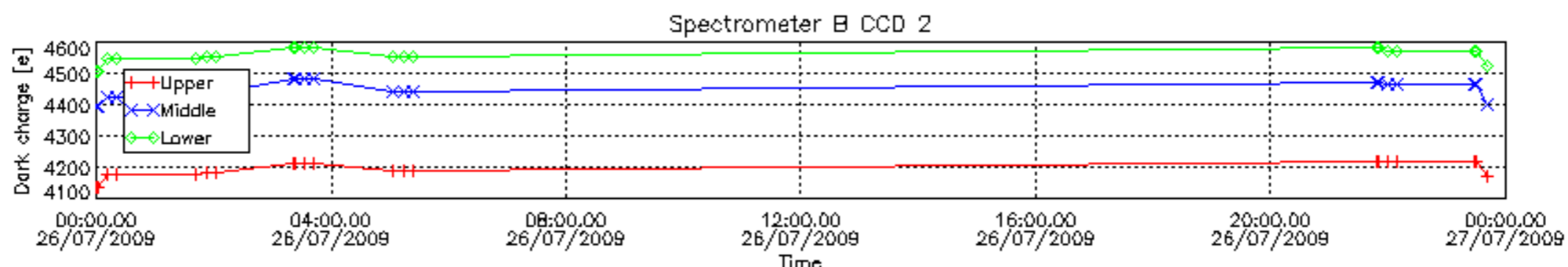
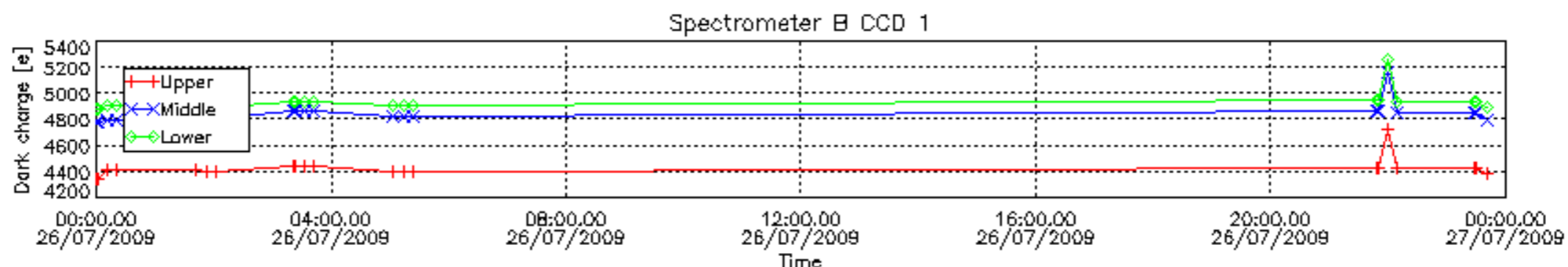
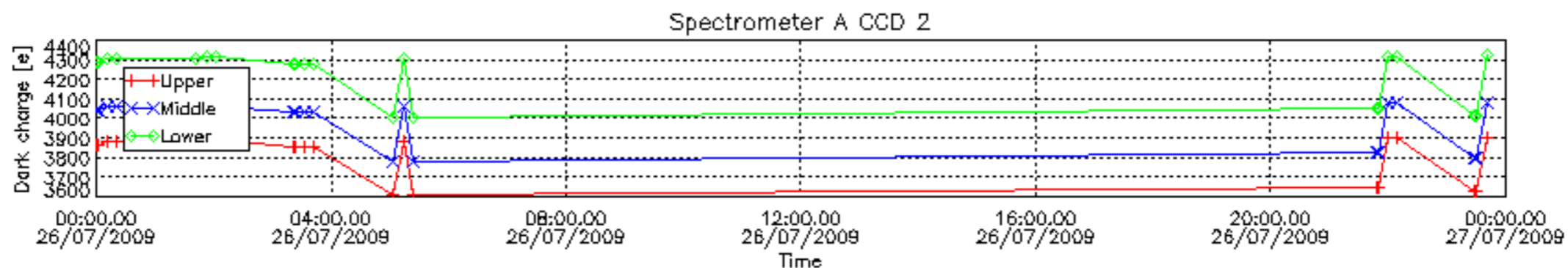
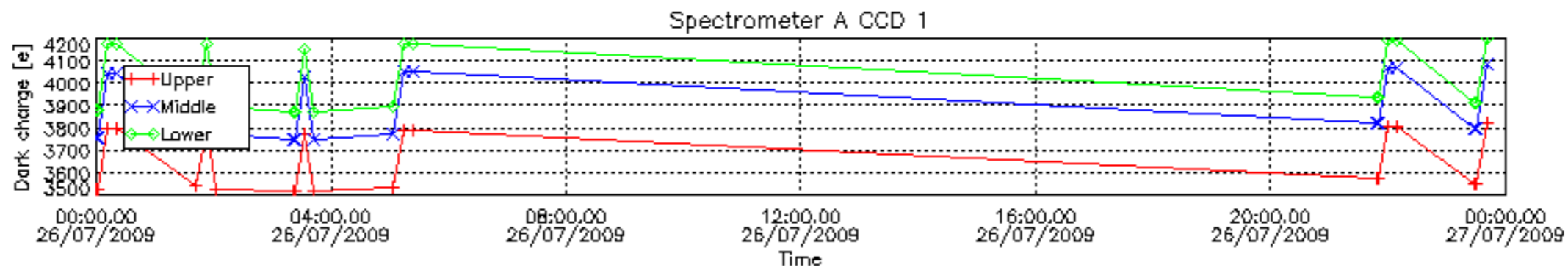
8. Auxiliary Data Files used for the production reported in section 2.4

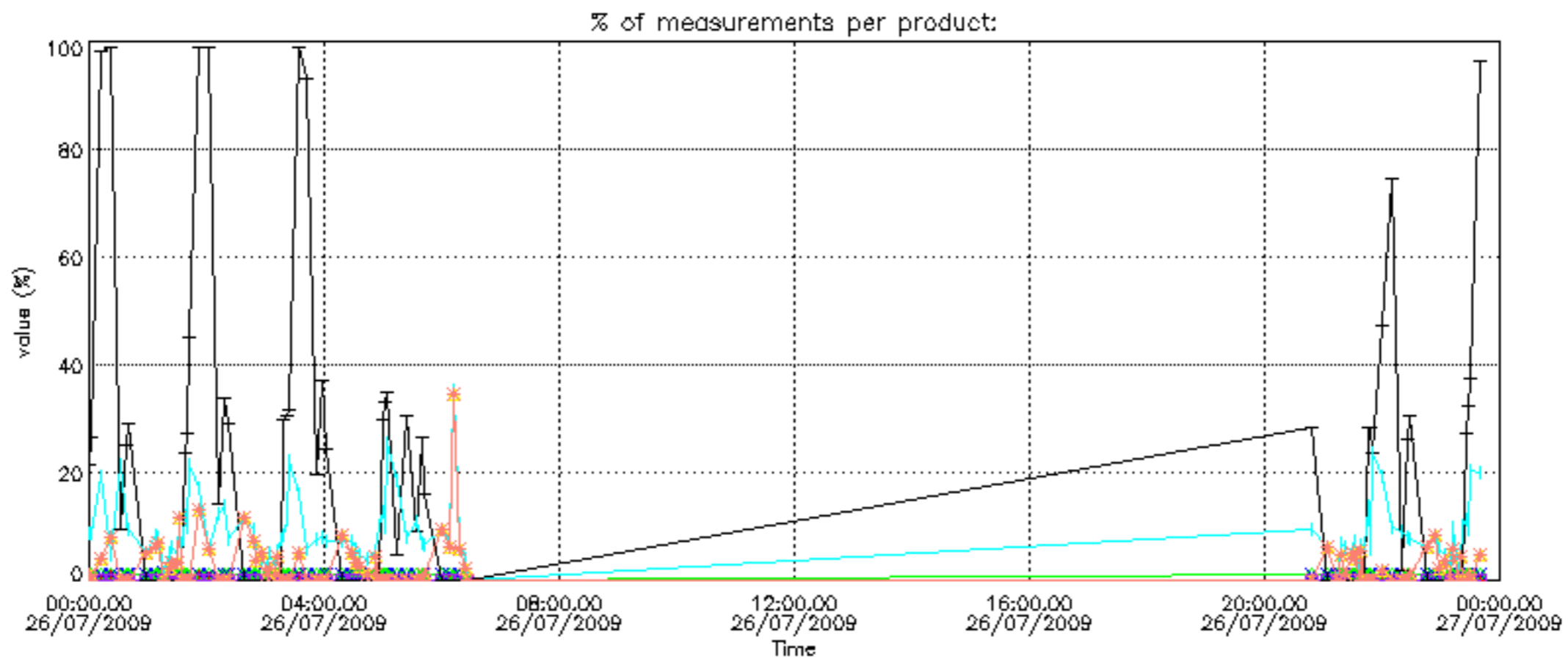
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXNIEC20050627_150713_20030716_120000_20100101_000000	1	26-JUL-2009 00:00:20
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20090724_083809_20090721_000000_20100101_000000	1	26-JUL-2009 00:00:20
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXNIEC20050627_151042_20020301_000000_20100101_000000	1	26-JUL-2009 00:00:20
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	26-JUL-2009 00:00:20
STELLAR_SPECTRA_DATABANK	GOM_STS_AXNIEC20040308_103538_20020101_160000_20100101_000000	1	26-JUL-2009 00:00:20
ECMWF_FILE	AUX_ECF_AXNECM20090725_100114_20090725_210000_20090726_090000	1	26-JUL-2009 00:00:20
ECMWF_FILE	AUX_ECF_AXNECM20090725_184111_20090726_030000_20090726_150000	29	26-JUL-2009 03:02:54
ECMWF_FILE	AUX_ECF_AXNECM20090726_064118_20090726_150000_20090727_030000	65	26-JUL-2009 20:45:02
ECMWF_FILE	AUX_ECF_AXNECM20090726_064118_20090726_210000_20090727_090000	79	26-JUL-2009 22:00:07
OPTIONAL_ECMWF_FILE	MISSING	1	26-JUL-2009 00:00:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090725_222621_000057382081_00072_38703_8424.N1	1	26-JUL-2009 00:00:20
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_000718_000057382081_00073_38704_8425.N1	3	26-JUL-2009 00:12:10
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_014256_000044632081_00074_38705_8426.N1	20	26-JUL-2009 01:52:47
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_030238_000057382081_00075_38706_8427.N1	29	26-JUL-2009 03:02:54
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_044335_000057382081_00076_38707_8428.N1	47	26-JUL-2009 04:45:16
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_204516_000038252081_00086_38717_8429.N1	65	26-JUL-2009 20:45:02
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20090726_215420_000057382081_00086_38717_8430.N1	79	26-JUL-2009 22:00:07

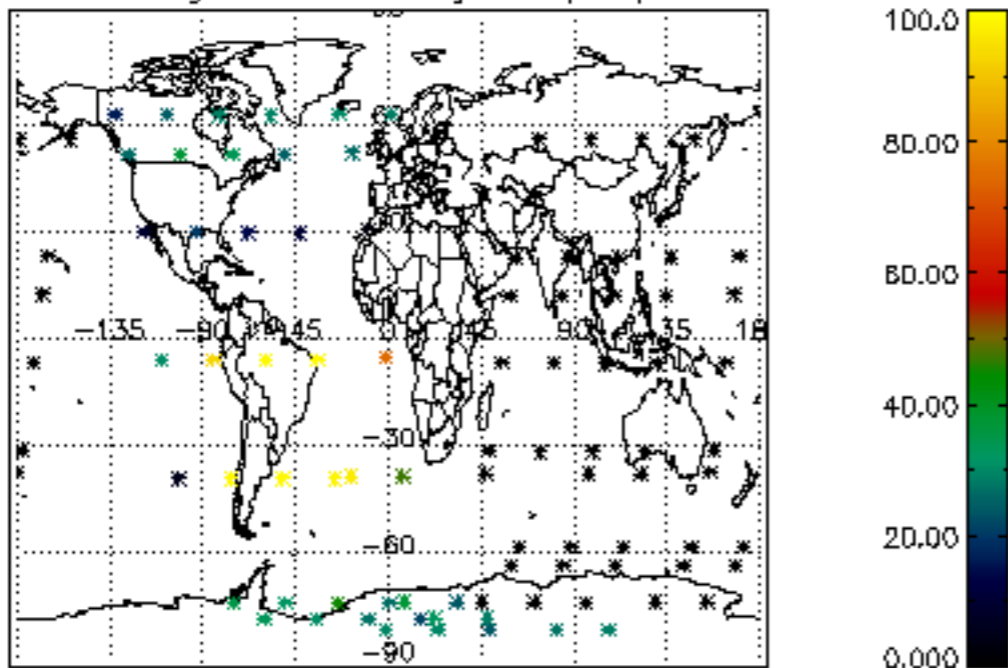




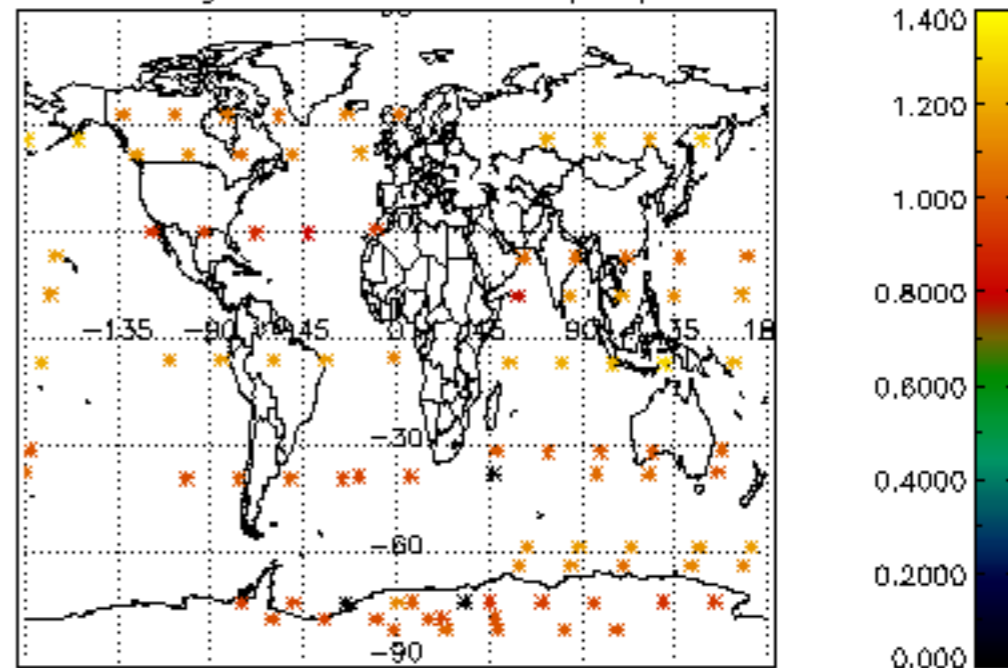




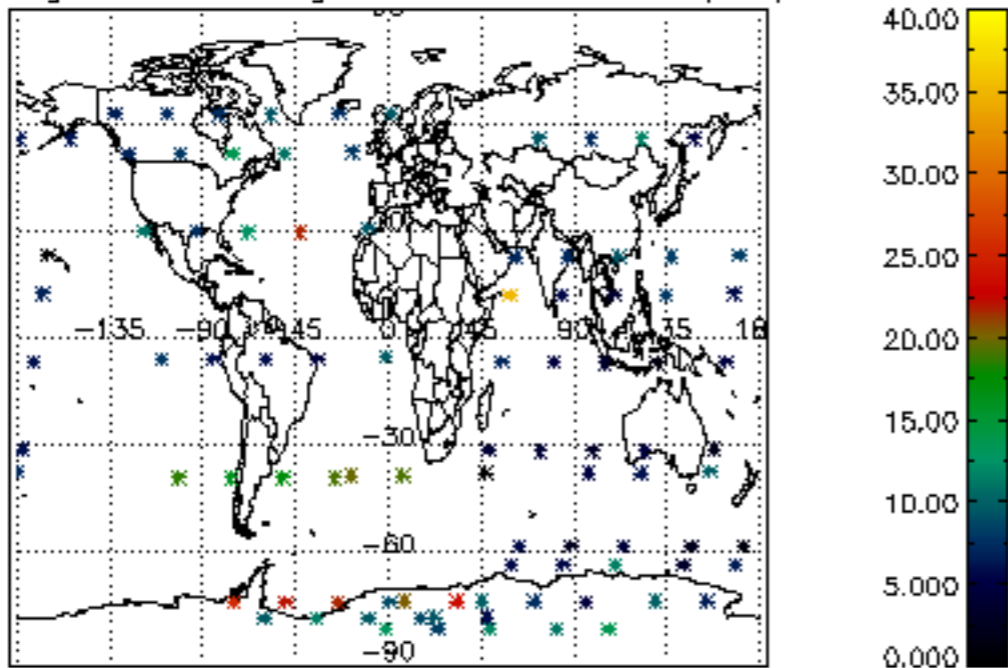
Percentage of cosmic ray hits per profile



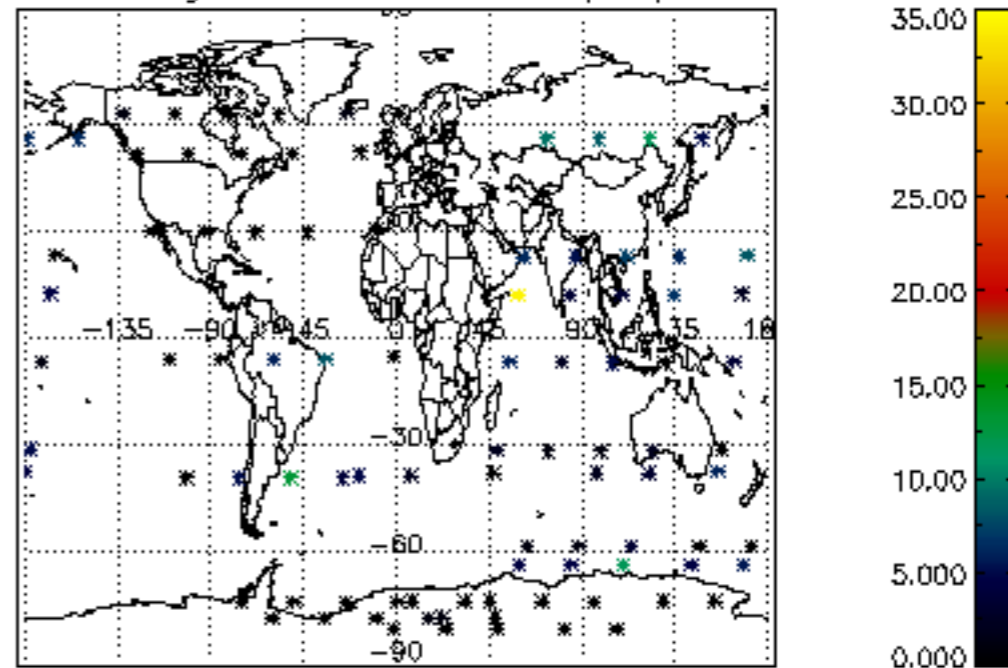
Percentage of datation errors per profile



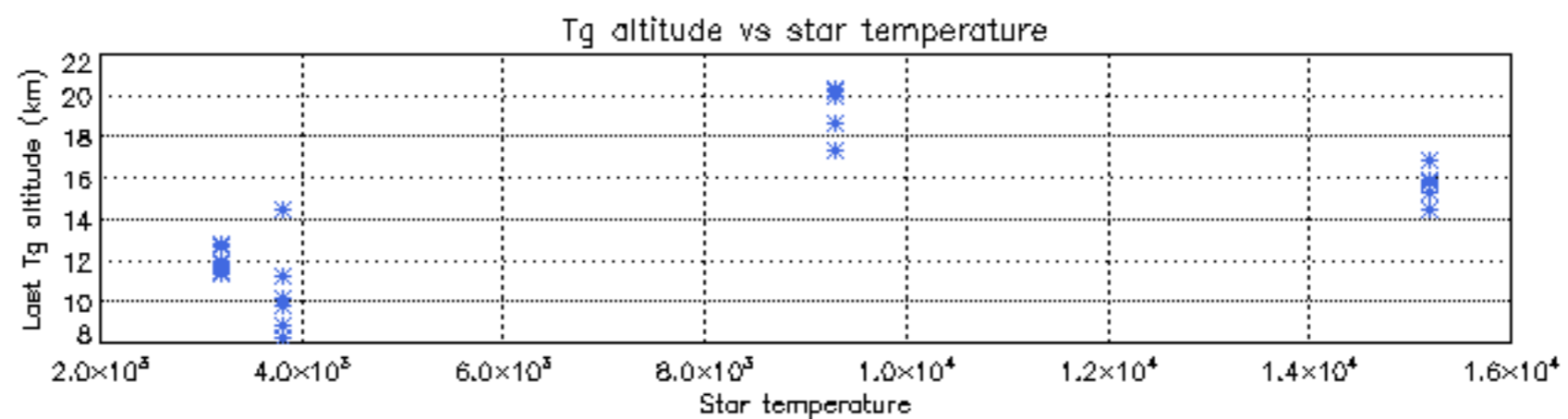
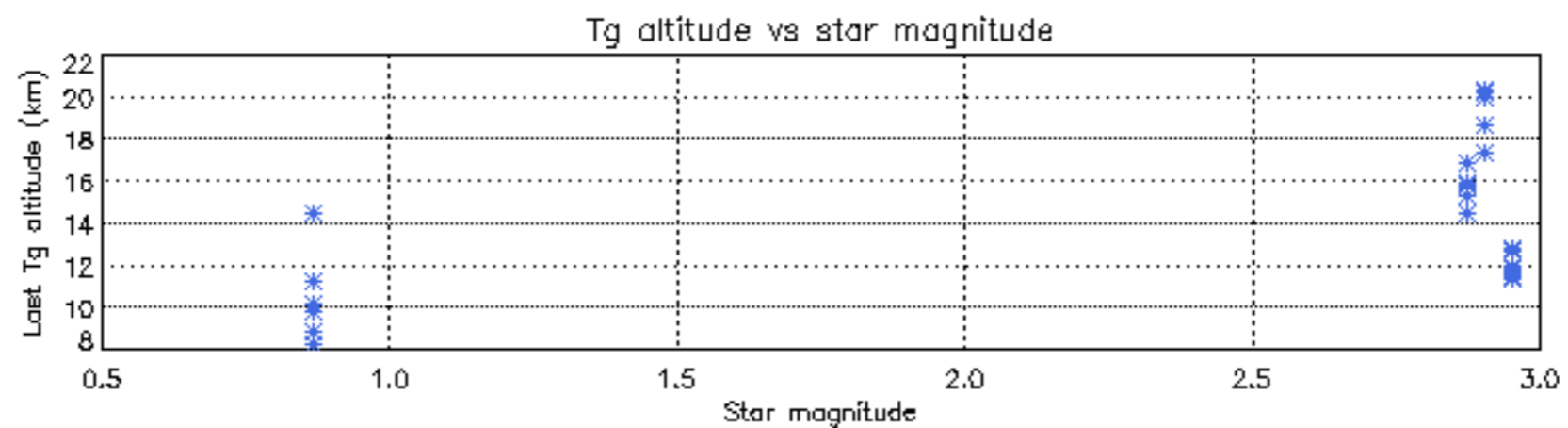
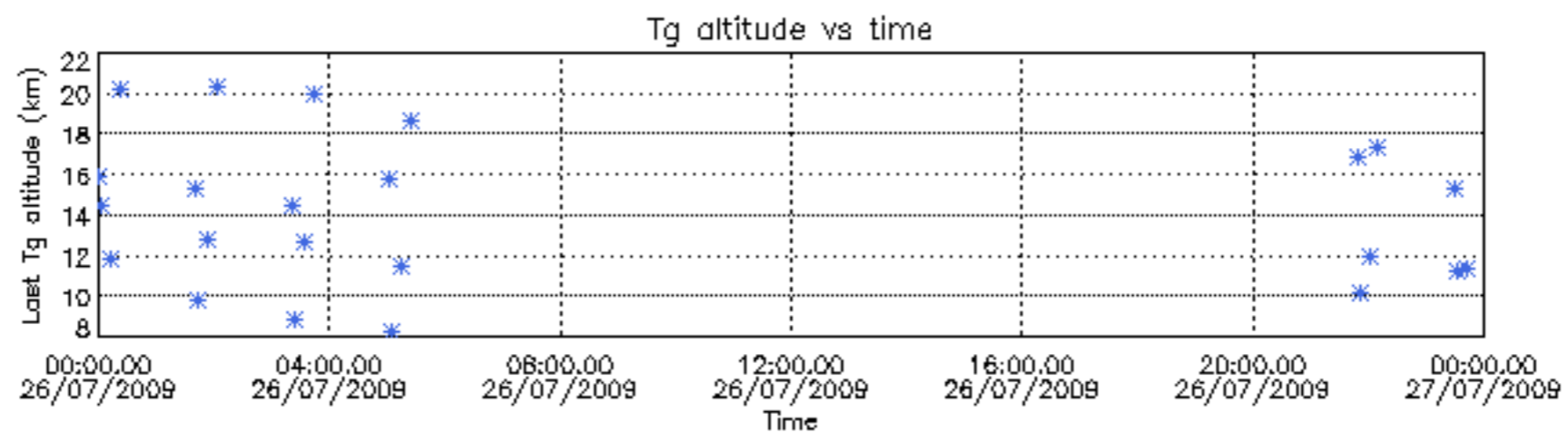
Percentage of star falling outside central band per profile



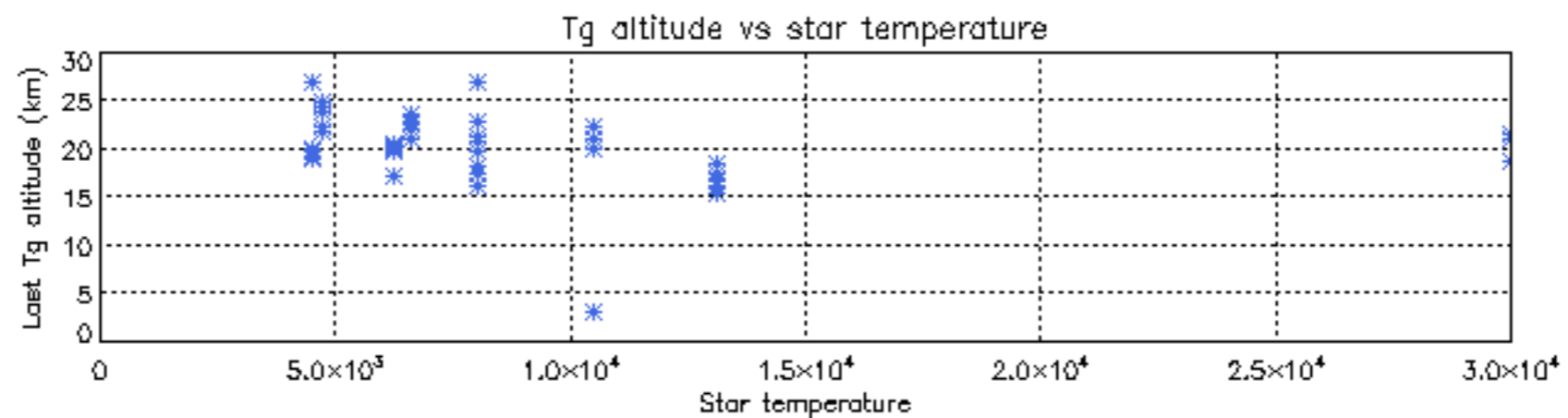
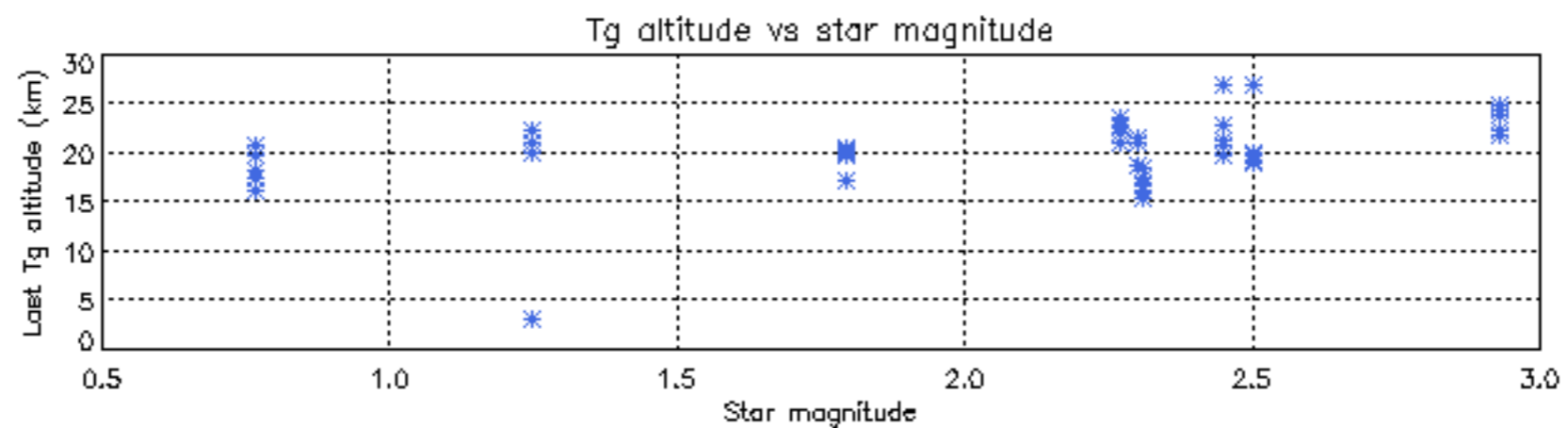
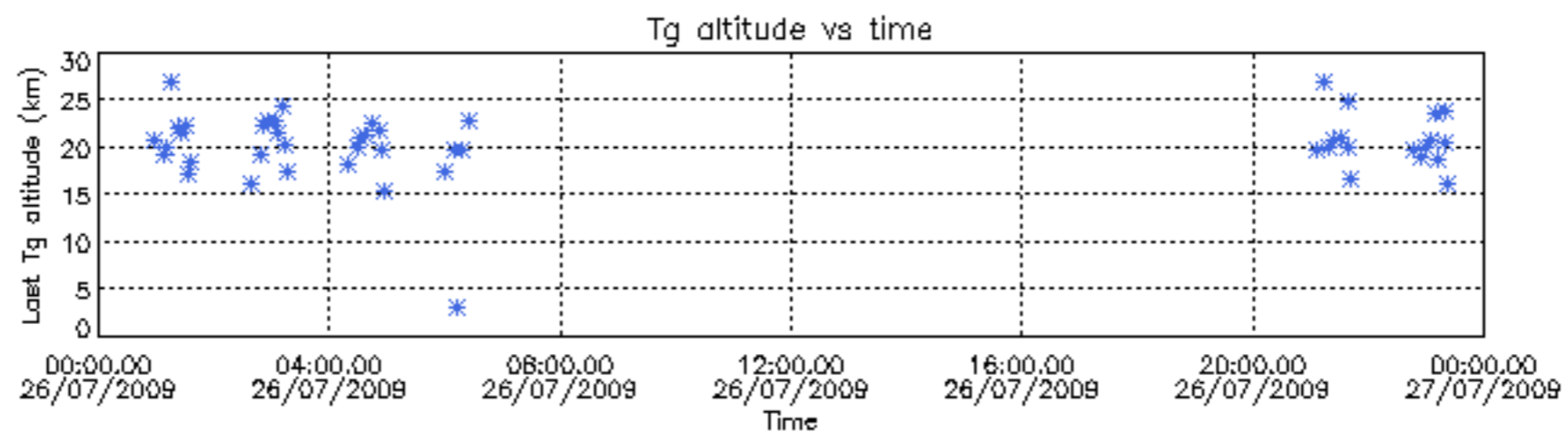
Percentage of saturation errors per profile

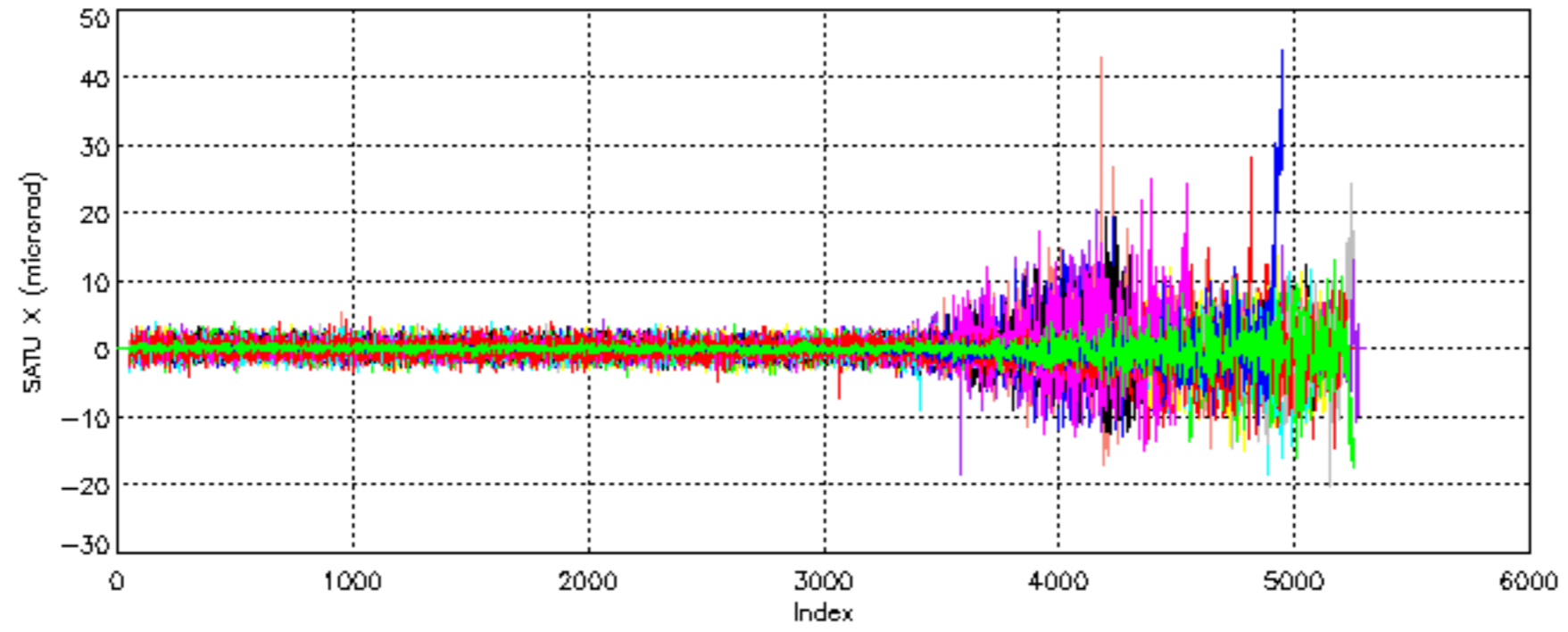


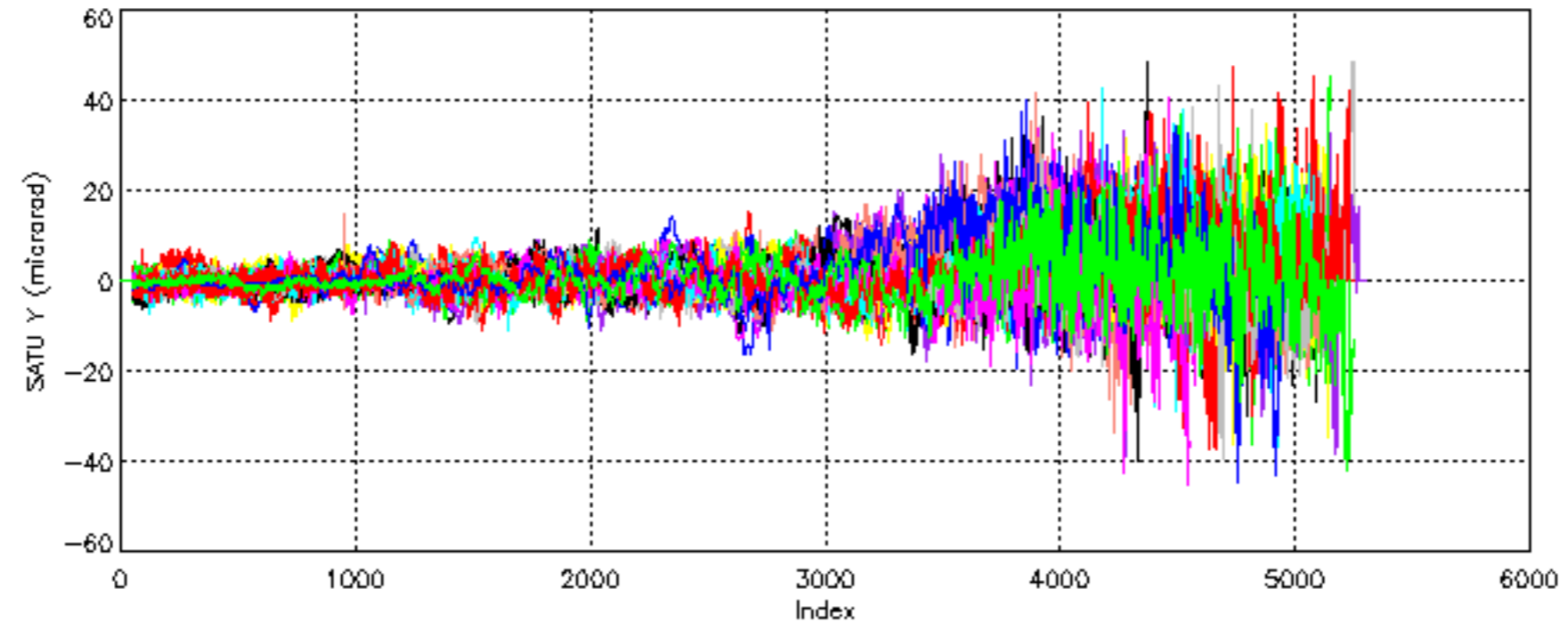
Tangent altitude at which the star is lost

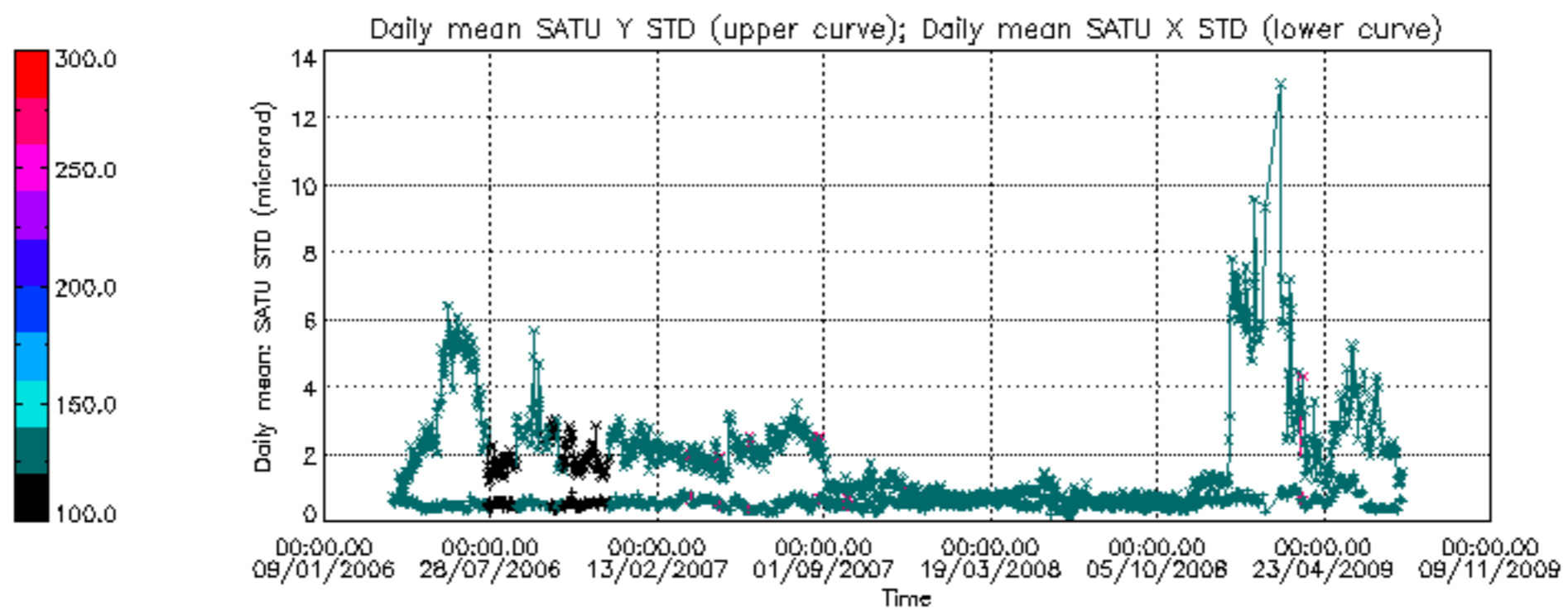


Tangent altitude at which the star is lost









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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
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13; 2920.9; 01-JUL-2009 04:18:43; Bright; 48.5; 144; 18Del Cyg ; 2.86; 11000;occ; 97; 0;38349
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 3; -1769.3; 01-JUL-2009 04:41:09; Bright; 36.5; 73; 57Gam1And ; 2.26; 13100;occ; 73; 0;38349
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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
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13; 2650.4; 01-JUL-2009 05:54:48; Bright; 46.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 92; 0;38350
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 6; 3778.7; 01-JUL-2009 21:19:00; Bright; 41.0; 74; 11Bet Cas ; 2.27; 6600;occ; 82; 0;38359
 7; 3874.0; 01-JUL-2009 21:20:35; Bright; 34.5; 110; 37Del Cas ; 2.68; 8900;occ; 69; 0;38359
 8; 4265.9; 01-JUL-2009 21:27:07; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38359
 9; 4425.8; 01-JUL-2009 21:29:47; Dark ; 36.0; 173; 4Bet Tri ; 3.00; 8900;occ; 72; 0;38359
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 4; 615.0; 01-JUL-2009 22:06:52; Dark ; 49.5; 31; Alp Gru ; 1.73; 15200;occ; 99; 0;38360
 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
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 13; 4265.9; 01-JUL-2009 23:07:43; Bright; 36.0; 73; 57Gam1And ; 2.26; 13100;occ; 72; 0;38360
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 4; 616.0; 01-JUL-2009 23:47:29; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38361
 5; 791.5; 01-JUL-2009 23:50:25; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38361
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 11; 3777.9; 02-JUL-2009 00:40:11; Bright; 40.0; 74; 11Bet Cas ; 2.27; 6600;occ; 80; 0;38361
 12; 3872.8; 02-JUL-2009 00:41:46; Bright; 35.0; 110; 37Del Cas ; 2.68; 8900;occ; 70; 0;38361
 13; 4265.7; 02-JUL-2009 00:48:19; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38361
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 3; -1769.4; 01-JUL-2009 06:21:44; Bright; 35.5; 73; 57Gam1And ; 2.26; 13100;occ; 71; 0;38350
 4; -1610.7; 01-JUL-2009 06:24:23; Dark ; 36.5; 173; 4Bet Tri ; 3.00; 8900;occ; 73; 0;38350
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 6; -529.8; 01-JUL-2009 06:42:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38350
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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
 10; 5507.0; 01-JUL-2009 08:23:01; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38351
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 6; 502.5; 02-JUL-2009 03:06:47; Dark ; 55.0; 63; Bet Gru ; 2.15; 2800;occ; 110; 0;38363
 7; 617.7; 02-JUL-2009 03:08:42; Dark ; 52.5; 31; Alp Gru ; 1.73; 15200;occ; 105; 0;38363

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6; 1486.1; 02-JUL-2009 21:49:46; Bright; 43.5; 155; 41Pi Sgr ; 2.90; 6600;occ; 87; 0;38374
7; 2217.8; 02-JUL-2009 22:01:58; Bright; 69.0; 168; 17Zet Aql ; 2.99; 11000;occ; 138; 0;38374
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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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 7; 4261.6; 05-JUL-2009 10:57:35; Bright; 39.0; 73; 57Gam1And ; 2.26; 13100;occ; 78; 0;38410
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13; 6695.2; 05-JUL-2009 11:38:09; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38410
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 8; 4429.4; 05-JUL-2009 12:40:59; Dark ; 39.5; 173; 4Bet Tri ; 3.00; 8900;occ; 79; 0;38411
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4; -1016.3; 07-JUL-2009 03:24:35; Dark ; 39.0; 94; 92Alp Cet ; 2.53; 3100;occ; 78; 0;38434
5; -447.6; 07-JUL-2009 03:34:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38434
6; 191.5; 07-JUL-2009 03:44:43; Dark ; 51.0; 84; Alp Phe ; 2.40; 4500;occ; 102; 0;38435
7; 570.4; 07-JUL-2009 03:51:02; Dark ; 53.5; 63; Bet Gru ; 2.15; 2800;occ; 107; 0;38435
8; 679.6; 07-JUL-2009 03:52:51; Dark ; 54.5; 31; Alp Gru ; 1.73; 15200;occ; 109; 0;38435
9; 864.9; 07-JUL-2009 03:55:56; Dark ; 54.0; 172; Gam Gru ; 3.00; 13100;occ; 108; 0;38435
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3; -1776.9; 07-JUL-2009 04:52:30; Bright; 42.0; 73; 57Gam1And ; 2.26; 13100;occ; 84; 0;38435
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5; -1015.7; 07-JUL-2009 05:05:12; Dark ; 40.0; 94; 92Alp Cet ; 2.53; 3100;occ; 80; 0;38435
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7; 192.5; 07-JUL-2009 05:25:20; Dark ; 51.5; 84; Alp Phe ; 2.40; 4500;occ; 103; 0;38436
8; 571.2; 07-JUL-2009 05:31:39; Dark ; 55.5; 63; Bet Gru ; 2.15; 2800;occ; 111; 0;38436
9; 680.6; 07-JUL-2009 05:33:28; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38436
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
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3; 2845.9; 07-JUL-2009 21:14:57; Bright; 47.0; 144; 18Del Cyg ; 2.86; 11000;occ; 94; 0;38445
4; 3278.9; 07-JUL-2009 21:22:10; Bright; 43.0; 89; 5Alp Cep ; 2.45; 8000;occ; 86; 0;38445
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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 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
 11; 866.6; 07-JUL-2009 07:17:10; Dark ; 55.0; 172; Gam Gru ; 3.00; 13100;occ; 110; 0;38437

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 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
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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
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 7; 4714.9; 07-JUL-2009 11:42:30; Dark ; 48.5; 50; 13Alp Ari ; 2.01; 4250;occ; 97; 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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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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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
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 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
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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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4; 3714.0; 09-JUL-2009 17:04:59; Bright; 48.0; 74; 11Bet Cas ; 2.27; 6600;occ; 96; 0;38471
5; 3835.5; 09-JUL-2009 17:07:00; Bright; 42.0; 110; 37Del Cas ; 2.68; 8900;occ; 84; 0;38471
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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6; 4049.7; 11-JUL-2009 07:44:21; Bright; 51.0; 160; 23Gam Per ; 2.93; 4700;occ; 102; 0;38494
7; 4251.3; 11-JUL-2009 07:47:42; Bright; 45.5; 73; 57Gam1And ; 2.26; 13100;occ; 91; 0;38494
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 5; 3666.7; 14-JUL-2009 17:47:18; Bright; 49.0; 74; 11Bet Cas ; 2.27; 6600;occ; 98; 0;38543
 6; 3806.0; 14-JUL-2009 17:49:38; Bright; 42.5; 110; 37Del Cas ; 2.68; 8900;occ; 85; 0;38543
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 9; 4242.4; 14-JUL-2009 17:56:54; Bright; 26.0; 73; 57Gam1And ; 2.26; 13100;occ; 52; 0;38543
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11; 5087.4; 14-JUL-2009 18:10:59; Dark ; 65.0; 94; 92Alp Cet ; 2.53; 3100;occ; 130; 0;38543
12; 5433.2; 14-JUL-2009 18:16:45; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38543
13; 6350.0; 14-JUL-2009 18:32:02; Dark ; 55.5; 84; Alp Phe ; 2.40; 4500;occ; 111; 0;38543
14; 6703.1; 14-JUL-2009 18:37:55; Dark ; 51.5; 63; Bet Gru ; 2.15; 2800;occ; 103; 0;38543
15; 6800.8; 14-JUL-2009 18:39:32; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38543
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 6; 3666.2; 14-JUL-2009 19:27:54; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38544
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 5; 960.4; 15-JUL-2009 01:25:12; Dark ; 53.0; 172; Gam Gru ; 3.00; 13100;occ; 106; 0;38548
 6; 2109.7; 15-JUL-2009 01:44:21; Bright; 48.5; 11; 53Alp Aql ; 0.76; 8000;occ; 97; 0;38548
 7; 2783.0; 15-JUL-2009 01:55:34; Bright; 39.0; 144; 18Del Cyg ; 2.86; 11000;occ; 78; 0;38548
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 7; 670.9; 15-JUL-2009 03:00:58; Dark ; 63.0; 63; Bet Gru ; 2.15; 2800;occ; 126; 0;38549
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 9; 961.1; 15-JUL-2009 03:05:48; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38549
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13; 2781.3; 15-JUL-2009 06:57:20; Bright; 43.0; 144; 18Del Cyg ; 2.86; 11000;occ; 86; 0;38551
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4; 3213.1; 15-JUL-2009 08:45:08; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38552
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 11; 699.2; 17-JUL-2009 12:01:48; Dark ; 52.5; 63; Bet Gru ; 2.15; 2800;occ; 105; 0;38583
 12; 793.0; 17-JUL-2009 12:03:22; Dark ; 49.0; 31; Alp Gru ; 1.73; 15200;occ; 98; 0;38583
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 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
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 8; 4118.0; 17-JUL-2009 12:58:47; Bright; 41.5; 35; 33Alp Per ; 1.79; 6250;occ; 83; 0;38583
 9; 4295.9; 17-JUL-2009 13:01:45; Bright; 49.5; 79; 26Bet Per ; 2.31; 13100;occ; 99; 0;38583
 10; 4473.2; 17-JUL-2009 13:04:42; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38583
 11; 4629.9; 17-JUL-2009 13:07:19; Dark ; 42.5; 146; 25Eta Tau ; 2.87; 15200;occ; 85; 0;38583
 12; 5118.5; 17-JUL-2009 13:15:27; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38583
 13; 5470.2; 17-JUL-2009 13:21:19; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38583
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 15; 6735.9; 17-JUL-2009 13:42:25; Dark ; 53.0; 63; Bet Gru ; 2.15; 2800;occ; 106; 0;38583
 16; 6829.6; 17-JUL-2009 13:43:58; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38583
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 3; 2897.8; 17-JUL-2009 14:19:03; Bright; 50.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 100; 0;38584
 4; 3194.8; 17-JUL-2009 14:23:59; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38584
 5; 3638.2; 17-JUL-2009 14:31:23; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38584
 6; 3755.1; 17-JUL-2009 14:33:20; Bright; 50.0; 68; 18Alp Cas ; 2.22; 4500;occ; 100; 0;38584
 7; 4035.3; 17-JUL-2009 14:38:00; Bright; 40.0; 160; 23Gam Per ; 2.93; 4700;occ; 80; 0;38584

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

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 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
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 8; 4117.9; 17-JUL-2009 16:19:59; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38585
 9; 4296.1; 17-JUL-2009 16:22:57; Bright; 49.0; 79; 26Bet Per ; 2.31; 13100;occ; 98; 0;38585
 10; 4473.3; 17-JUL-2009 16:25:54; Dark ; 42.0; 150; 44Zet Per ; 2.89; 28000;occ; 84; 0;38585
 11; 4630.4; 17-JUL-2009 16:28:31; Dark ; 42.0; 146; 25Eta Tau ; 2.87; 15200;occ; 84; 0;38585
 12; 5120.1; 17-JUL-2009 16:36:41; Dark ; 62.5; 94; 92Alp Cet ; 2.53; 3100;occ; 125; 0;38585
 13; 5472.2; 17-JUL-2009 16:42:33; Dark ; 59.0; 0; ; 0.00; 0;occ; 118; 0;38585
 14; 6398.2; 17-JUL-2009 16:57:59; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38585
 15; 6737.7; 17-JUL-2009 17:03:38; Dark ; 48.5; 63; Bet Gru ; 2.15; 2800;occ; 97; 0;38585
 16; 6831.1; 17-JUL-2009 17:05:12; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38585
 17; 7024.1; 17-JUL-2009 17:08:25; Dark ; 50.0; 172; Gam Gru ; 3.00; 13100;occ; 100; 0;38585

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 2; 2763.9; 17-JUL-2009 17:38:01; Bright; 42.0; 144; 18Del Cyg ; 2.86; 11000;occ; 84; 0;38586
 3; 2896.2; 17-JUL-2009 17:40:13; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38586
 4; 3193.6; 17-JUL-2009 17:45:10; Bright; 40.0; 89; 5Alp Cep ; 2.45; 8000;occ; 80; 0;38586
 5; 3636.7; 17-JUL-2009 17:52:33; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38586
 6; 3753.6; 17-JUL-2009 17:54:30; Bright; 48.0; 68; 18Alp Cas ; 2.22; 4500;occ; 96; 0;38586
 7; 4034.9; 17-JUL-2009 17:59:12; Bright; 41.5; 160; 23Gam Per ; 2.93; 4700;occ; 83; 0;38586
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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
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 13; 5473.2; 17-JUL-2009 18:23:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38586
 14; 6399.4; 17-JUL-2009 18:38:36; Dark ; 58.5; 84; Alp Phe ; 2.40; 4500;occ; 117; 0;38586
 15; 6738.6; 17-JUL-2009 18:44:15; Dark ; 49.0; 63; Bet Gru ; 2.15; 2800;occ; 98; 0;38586
 16; 6831.7; 17-JUL-2009 18:45:48; Dark ; 54.0; 31; Alp Gru ; 1.73; 15200;occ; 108; 0;38586
 17; 7024.7; 17-JUL-2009 18:49:01; Dark ; 49.5; 172; Gam Gru ; 3.00; 13100;occ; 99; 0;38586

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 3; 705.6; 18-JUL-2009 01:26:42; Dark ; 61.0; 63; Bet Gru ; 2.15; 2800;occ; 122; 0;38591
 4; 798.4; 18-JUL-2009 01:28:15; Dark ; 56.5; 31; Alp Gru ; 1.73; 15200;occ; 113; 0;38591
 5; 991.7; 18-JUL-2009 01:31:28; Dark ; 51.5; 172; Gam Gru ; 3.00; 13100;occ; 103; 0;38591
 6; 2153.4; 18-JUL-2009 01:50:50; Bright; 39.5; 168; 17Zet Aql ; 2.99; 11000;occ; 79; 0;38591
 7; 2761.6; 18-JUL-2009 02:00:58; Bright; 41.5; 144; 18Del Cyg ; 2.86; 11000;occ; 83; 0;38591
 8; 2892.2; 18-JUL-2009 02:03:08; Bright; 48.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 96; 0;38591
 9; 3190.7; 18-JUL-2009 02:08:07; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38591
 10; 3633.0; 18-JUL-2009 02:15:29; Bright; 50.5; 74; 11Bet Cas ; 2.27; 6600;occ; 101; 0;38591
 11; 3750.4; 18-JUL-2009 02:17:27; Bright; 44.0; 68; 18Alp Cas ; 2.22; 4500;occ; 88; 0;38591
 12; 4034.1; 18-JUL-2009 02:22:10; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38591
 13; 4117.1; 18-JUL-2009 02:23:33; Bright; 60.5; 35; 33Alp Per ; 1.79; 6250;occ; 121; 0;38591

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 3; -1561.9; 18-JUL-2009 02:29:30; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38591
 4; -910.6; 18-JUL-2009 02:40:21; Dark ; 62.0; 94; 92Alp Cet ; 2.53; 3100;occ; 124; 0;38591
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 6; 369.2; 18-JUL-2009 03:01:41; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38592
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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
5;-1740.2; 18-JUL-2009 04:07:08; Bright; 46.0; 79; 26Bet Per ; 2.31; 13100;occ; 92; 0;38592
6;-1561.8; 18-JUL-2009 04:10:06; Dark ; 43.5; 150; 44Zet Per ; 2.89; 28000;occ; 87; 0;38592
7; -910.0; 18-JUL-2009 04:20:58; Dark ; 64.0; 94; 92Alp Cet ; 2.53; 3100;occ; 128; 0;38592
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9; 370.3; 18-JUL-2009 04:42:18; Dark ; 56.5; 84; Alp Phe ; 2.40; 4500;occ; 113; 0;38593
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11; 799.7; 18-JUL-2009 04:49:28; Dark ; 51.0; 31; Alp Gru ; 1.73; 15200;occ; 102; 0;38593
12; 993.1; 18-JUL-2009 04:52:41; Dark ; 51.0; 172; Gam Gru ; 3.00; 13100;occ; 102; 0;38593
13; 2153.1; 18-JUL-2009 05:12:01; Bright; 37.5; 168; 17Zet Aql ; 2.99; 11000;occ; 75; 0;38593
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15; 2890.5; 18-JUL-2009 05:24:19; Bright; 48.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 97; 0;38593
16; 3189.6; 18-JUL-2009 05:29:18; Bright; 43.5; 89; 5Alp Cep ; 2.45; 8000;occ; 87; 0;38593
17; 3631.6; 18-JUL-2009 05:36:40; Bright; 39.0; 74; 11Bet Cas ; 2.27; 6600;occ; 78; 0;38593
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12; 993.9; 18-JUL-2009 06:33:18; Dark ; 54.5; 172; Gam Gru ; 3.00; 13100;occ; 109; 0;38594
13; 2153.1; 18-JUL-2009 06:52:37; Bright; 39.0; 168; 17Zet Aql ; 2.99; 11000;occ; 78; 0;38594
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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; 3625.2; 18-JUL-2009 20:41:57; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38602
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9; 4115.5; 18-JUL-2009 20:50:07; Bright; 45.0; 35; 33Alp Per ; 1.79; 6250;occ; 90; 0;38602
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12; 4634.7; 18-JUL-2009 20:58:46; Dark ; 46.0; 146; 25Eta Tau ; 2.87; 15200;occ; 92; 0;38602
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 5; 3566.1; 24-JUL-2009 09:08:16; Bright; 52.5; 74; 11Bet Cas ; 2.27; 6600;occ; 105; 0;38681
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11; 4656.5; 24-JUL-2009 09:26:26; Dark ; 51.0; 146; 25Eta Tau ; 2.87; 15200;occ; 102; 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
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 3; 2826.9; 24-JUL-2009 10:36:32; Bright; 46.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 93; 0;38682
 4; 3141.9; 24-JUL-2009 10:41:47; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38682
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16; 6509.5; 24-JUL-2009 11:37:55; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38682
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11; 4656.9; 24-JUL-2009 12:47:38; Dark ; 48.0; 146; 25Eta Tau ; 2.87; 15200;occ; 96; 0;38683
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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
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 5; 3666.8; 24-JUL-2009 14:11:44; Bright; 51.5; 76; 27Gam Cas ; 2.30; 30000;occ; 103; 0;38684
 6; 4012.6; 24-JUL-2009 14:17:30; Bright; 65.0; 160; 23Gam Per ; 2.93; 4700;occ; 130; 0;38684

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 10; 4657.4; 24-JUL-2009 14:28:15; Dark ; 50.0; 146; 25Eta Tau ; 2.87; 15200;occ; 100; 0;38684
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 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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 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
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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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 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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 9; 2821.3; 25-JUL-2009 01:41:50; Bright; 46.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 92; 0;38691
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 18; 3136.6; 25-JUL-2009 05:08:17; Bright; 42.5; 89; 5Alp Cep ; 2.45; 8000;occ; 85; 0;38693
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 13; 1057.3; 25-JUL-2009 06:14:14; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38694
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 16; 2819.3; 25-JUL-2009 06:43:36; Bright; 45.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 90; 0;38694

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9; 4099.4; 25-JUL-2009 20:29:44; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38702
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15; 5927.7; 25-JUL-2009 12:37:12; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38697
16; 6526.5; 25-JUL-2009 12:47:11; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38697
17; 6903.4; 25-JUL-2009 12:53:28; Dark ; 46.0; 31; Alp Gru ; 1.73; 15200;occ; 92; 0;38697
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3; 2817.0; 25-JUL-2009 13:25:57; Bright; 58.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 117; 0;38698
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5; 3552.9; 25-JUL-2009 13:38:13; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38698
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
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 4; 3133.4; 25-JUL-2009 15:11:50; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38699
 5; 3552.2; 25-JUL-2009 15:18:49; Bright; 67.5; 74; 11Bet Cas ; 2.27; 6600;occ; 135; 0;38699
 6; 3657.6; 25-JUL-2009 15:20:34; Bright; 48.0; 76; 27Gam Cas ; 2.30; 30000;occ; 96; 0;38699
 7; 4008.6; 25-JUL-2009 15:26:25; Bright; 44.5; 160; 23Gam Per ; 2.93; 4700;occ; 89; 0;38699
 8; 4100.2; 25-JUL-2009 15:27:56; Bright; 65.0; 35; 33Alp Per ; 1.79; 6250;occ; 130; 0;38699
 9; 4287.8; 25-JUL-2009 15:31:04; Bright; 52.5; 79; 26Bet Per ; 2.31; 13100;occ; 105; 0;38699
 10; 4488.8; 25-JUL-2009 15:34:25; Dark ; 46.5; 150; 44Zet Per ; 2.89; 28000;occ; 93; 0;38699
 11; 4662.1; 25-JUL-2009 15:37:18; Dark ; 51.5; 146; 25Eta Tau ; 2.87; 15200;occ; 103; 0;38699
 12; 4757.5; 25-JUL-2009 15:38:54; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;38699
 13; 5370.7; 25-JUL-2009 15:49:07; Dark ; 55.0; 165; 34Gam Eri ; 2.95; 3200;occ; 110; 0;38699
 14; 5601.8; 25-JUL-2009 15:52:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38699
 15; 5929.6; 25-JUL-2009 15:58:26; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38699
 16; 6529.0; 25-JUL-2009 16:08:25; Dark ; 53.5; 84; Alp Phe ; 2.40; 4500;occ; 107; 0;38699
 17; 6904.7; 25-JUL-2009 16:14:41; Dark ; 47.0; 31; Alp Gru ; 1.73; 15200;occ; 94; 0;38699
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 3; 2815.7; 25-JUL-2009 16:47:08; Bright; 65.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 130; 0;38700
 4; 3133.0; 25-JUL-2009 16:52:25; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38700
 5; 3551.5; 25-JUL-2009 16:59:24; Bright; 53.0; 74; 11Bet Cas ; 2.27; 6600;occ; 106; 0;38700
 6; 3656.9; 25-JUL-2009 17:01:09; Bright; 71.0; 76; 27Gam Cas ; 2.30; 30000;occ; 142; 0;38700
 7; 4008.3; 25-JUL-2009 17:07:01; Bright; 45.0; 160; 23Gam Per ; 2.93; 4700;occ; 90; 0;38700
 8; 4100.0; 25-JUL-2009 17:08:32; Bright; 44.0; 35; 33Alp Per ; 1.79; 6250;occ; 88; 0;38700
 9; 4287.7; 25-JUL-2009 17:11:40; Bright; 53.5; 79; 26Bet Per ; 2.31; 13100;occ; 107; 0;38700
 10; 4488.9; 25-JUL-2009 17:15:01; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38700
 11; 4662.6; 25-JUL-2009 17:17:55; Dark ; 52.0; 146; 25Eta Tau ; 2.87; 15200;occ; 104; 0;38700
 12; 4757.7; 25-JUL-2009 17:19:30; Dark ; 57.5; 13; 87Alp Tau ; 0.87; 3800;occ; 115; 0;38700
 13; 5371.3; 25-JUL-2009 17:29:44; Dark ; 50.5; 165; 34Gam Eri ; 2.95; 3200;occ; 101; 0;38700
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 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
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 12; 4662.8; 25-JUL-2009 18:58:31; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38701
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 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
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4; 499.6; 26-JUL-2009 02:12:07; Dark ; 56.0; 84; Alp Phe ; 2.40; 4500;occ; 112; 0;38706
5; 872.2; 26-JUL-2009 02:18:20; Dark ; 47.5; 31; Alp Gru ; 1.73; 15200;occ; 95; 0;38706
6; 1064.0; 26-JUL-2009 02:21:32; Dark ; 46.5; 172; Gam Gru ; 3.00; 13100;occ; 93; 0;38706
7; 2068.8; 26-JUL-2009 02:38:17; Bright; 43.0; 11; 53Alp Aql ; 0.76; 8000;occ; 86; 0;38706
8; 2631.9; 26-JUL-2009 02:47:40; Bright; 48.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 97; 0;38706
9; 2811.9; 26-JUL-2009 02:50:40; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38706
10; 3130.0; 26-JUL-2009 02:55:58; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38706
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
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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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9; -423.6; 26-JUL-2009 05:17:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38707
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16; 2810.8; 26-JUL-2009 06:11:51; Bright; 64.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 128; 0;38708
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2; 2620.4; 27-JUL-2009 07:17:39; Bright; 47.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 95; 0;38723
3; 2802.1; 27-JUL-2009 07:20:41; Bright; 44.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 89; 0;38723
4; 3121.9; 27-JUL-2009 07:26:01; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38723
5; 3533.5; 27-JUL-2009 07:32:52; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38723
6; 3642.2; 27-JUL-2009 07:34:41; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38723
7; 4001.6; 27-JUL-2009 07:40:40; Bright; 59.0; 160; 23Gam Per ; 2.93; 4700;occ; 118; 0;38723
8; 4095.3; 27-JUL-2009 07:42:14; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 0;38723
9; 4285.0; 27-JUL-2009 07:45:24; Bright; 57.0; 79; 26Bet Per ; 2.31; 13100;occ; 114; 0;38723
10; 4492.0; 27-JUL-2009 07:48:51; Dark ; 50.0; 150; 44Zet Per ; 2.89; 28000;occ; 100; 0;38723
11; 4669.8; 27-JUL-2009 07:51:49; Dark ; 49.0; 146; 25Eta Tau ; 2.87; 15200;occ; 98; 0;38723
12; 4765.3; 27-JUL-2009 07:53:24; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;38723
13; 5389.0; 27-JUL-2009 08:03:48; Dark ; 52.5; 165; 34Gam Eri ; 2.95; 3200;occ; 105; 0;38723
14; 5634.2; 27-JUL-2009 08:07:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38723
15; 5950.4; 27-JUL-2009 08:13:09; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38723
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
7; 4001.3; 27-JUL-2009 09:21:16; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38724
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
10; 4492.1; 27-JUL-2009 09:29:27; Dark ; 52.0; 150; 44Zet Per ; 2.89; 28000;occ; 104; 0;38724
11; 4670.0; 27-JUL-2009 09:32:25; Dark ; 54.0; 146; 25Eta Tau ; 2.87; 15200;occ; 108; 0;38724
12; 4765.6; 27-JUL-2009 09:34:00; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;38724
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15; 5951.1; 27-JUL-2009 09:53:46; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38724
16; 6556.9; 27-JUL-2009 10:03:52; Dark ; 55.0; 84; Alp Phe ; 2.40; 4500;occ; 110; 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
7; 4000.9; 27-JUL-2009 11:01:52; Bright; 46.0; 160; 23Gam Per ; 2.93; 4700;occ; 92; 0;38725
8; 4094.7; 27-JUL-2009 11:03:25; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38725
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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11; 4670.3; 27-JUL-2009 11:13:01; Dark ; 53.5; 146; 25Eta Tau ; 2.87; 15200;occ; 107; 0;38725
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
15; 5951.9; 27-JUL-2009 11:34:23; Dark ; 43.5; 157; The1Eri ; 2.91; 9300;occ; 87; 0;38725
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
18; 7111.0; 27-JUL-2009 11:53:42; Dark ; 47.0; 172; Gam Gru ; 3.00; 13100;occ; 94; 0;38725
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3; 2800.4; 27-JUL-2009 12:22:27; Bright; 63.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 126; 0;38726
4; 3120.4; 27-JUL-2009 12:27:47; Bright; 42.0; 89; 5Alp Cep ; 2.45; 8000;occ; 84; 0;38726
5; 3531.0; 27-JUL-2009 12:34:37; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38726
6; 3640.2; 27-JUL-2009 12:36:27; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38726
7; 4000.7; 27-JUL-2009 12:42:27; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38726
8; 4094.4; 27-JUL-2009 12:44:01; Bright; 46.0; 35; 33Alp Per ; 1.79; 6250;occ; 92; 0;38726

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 12; 4766.3; 27-JUL-2009 12:55:13; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;38726
 13; 5391.2; 27-JUL-2009 13:05:38; Dark ; 51.0; 165; 34Gam Eri ; 2.95; 3200;occ; 102; 0;38726
 14; 5638.3; 27-JUL-2009 13:09:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38726
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 16; 6559.2; 27-JUL-2009 13:25:06; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38726
 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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 3; 2799.2; 27-JUL-2009 15:43:37; Bright; 40.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 81; 0;38728
 4; 3119.4; 27-JUL-2009 15:48:58; Bright; 37.5; 89; 5Alp Cep ; 2.45; 8000;occ; 75; 0;38728
 5; 3529.5; 27-JUL-2009 15:55:48; Bright; 51.5; 74; 11Bet Cas ; 2.27; 6600;occ; 103; 0;38728
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 9; 4284.4; 27-JUL-2009 16:08:23; Bright; 56.5; 79; 26Bet Per ; 2.31; 13100;occ; 113; 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
 12; 4767.1; 27-JUL-2009 16:16:25; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;38728
 13; 5392.9; 27-JUL-2009 16:26:51; Dark ; 53.0; 165; 34Gam Eri ; 2.95; 3200;occ; 106; 0;38728
 14; 5641.3; 27-JUL-2009 16:31:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 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
 18; 7112.8; 27-JUL-2009 16:55:31; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 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
 13; 5393.8; 27-JUL-2009 18:07:28; Dark ; 48.5; 165; 34Gam Eri ; 2.95; 3200;occ; 97; 0;38729
 14; 5642.7; 27-JUL-2009 18:11:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38729
 15; 5955.9; 27-JUL-2009 18:16:50; Dark ; 44.0; 157; The1Eri ; 2.91; 9300;occ; 88; 0;38729
 16; 6562.6; 27-JUL-2009 18:26:57; Dark ; 54.5; 84; Alp Phe ; 2.40; 4500;occ; 109; 0;38729
 17; 6922.3; 27-JUL-2009 18:32:57; Dark ; 50.0; 31; Alp Gru ; 1.73; 15200;occ; 100; 0;38729

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 2; 1077.2; 27-JUL-2009 18:36:08; Dark ; 47.5; 172; Gam Gru ; 3.00; 13100;occ; 95; 0;38730
 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
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 11; 4093.8; 27-JUL-2009 19:26:24; Bright; 47.5; 35; 33Alp Per ; 1.79; 6250;occ; 95; 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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 19; 6563.6; 27-JUL-2009 20:07:34; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38730
 20; 6922.8; 27-JUL-2009 20:13:33; Dark ; 50.5; 31; Alp Gru ; 1.73; 15200;occ; 101; 0;38730

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 5; 888.3; 28-JUL-2009 01:15:22; Dark ; 46.5; 31; Alp Gru ; 1.73; 15200;occ; 93; 0;38734
 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
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 11; 3116.6; 28-JUL-2009 01:52:30; Bright; 40.5; 89; 5Alp Cep ; 2.45; 8000;occ; 81; 0;38734
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 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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 4; 3498.3; 30-JUL-2009 09:18:38; Bright; 74.0; 74; 11Bet Cas ; 2.27; 6600;occ; 148; 0;38767
 5; 3613.0; 30-JUL-2009 09:20:33; Bright; 47.5; 76; 27Gam Cas ; 2.30; 30000;occ; 95; 0;38767
 6; 3987.8; 30-JUL-2009 09:26:47; Bright; 58.0; 160; 23Gam Per ; 2.93; 4700;occ; 116; 0;38767
 7; 4084.9; 30-JUL-2009 09:28:25; Bright; 46.5; 35; 33Alp Per ; 1.79; 6250;occ; 93; 0;38767
 8; 4316.5; 30-JUL-2009 09:32:16; Bright; 45.5; 149; 45Eps Per ; 2.89; 30000;occ; 91; 0;38767
 9; 4498.1; 30-JUL-2009 09:35:18; Dark ; 49.5; 150; 44Zet Per ; 2.89; 28000;occ; 99; 0;38767
10; 4780.7; 30-JUL-2009 09:40:00; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;38767
11; 5266.9; 30-JUL-2009 09:48:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;38767
12; 5425.9; 30-JUL-2009 09:50:46; Dark ; 59.0; 165; 34Gam Eri ; 2.95; 3200;occ; 118; 0;38767
13; 5990.3; 30-JUL-2009 10:00:10; Dark ; 45.0; 157; The1Eri ; 2.91; 9300;occ; 90; 0;38767
14; 6604.2; 30-JUL-2009 10:10:24; Dark ; 54.0; 84; Alp Phe ; 2.40; 4500;occ; 108; 0;38767
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16; 7132.8; 30-JUL-2009 10:19:13; Dark ; 46.0; 172; Gam Gru ; 3.00; 13100;occ; 92; 0;38767
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16; 7133.1; 30-JUL-2009 11:59:49; Dark ; 45.5; 172; Gam Gru ; 3.00; 13100;occ; 91; 0;38768
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 4; 3496.6; 30-JUL-2009 12:39:48; Bright; 50.0; 74; 11Bet Cas ; 2.27; 6600;occ; 100; 0;38769
 5; 3611.8; 30-JUL-2009 12:41:43; Bright; 47.0; 76; 27Gam Cas ; 2.30; 30000;occ; 94; 0;38769
 6; 3987.1; 30-JUL-2009 12:47:59; Bright; 45.5; 160; 23Gam Per ; 2.93; 4700;occ; 91; 0;38769
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 8; 4316.4; 30-JUL-2009 12:53:28; Bright; 58.0; 149; 45Eps Per ; 2.89; 30000;occ; 116; 0;38769
 9; 4498.4; 30-JUL-2009 12:56:30; Dark ; 53.0; 150; 44Zet Per ; 2.89; 28000;occ; 106; 0;38769
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13; 5992.2; 30-JUL-2009 13:21:24; Dark ; 45.5; 157; The1Eri ; 2.91; 9300;occ; 91; 0;38769
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 5; 3495.9; 30-JUL-2009 14:20:23; Bright; 49.5; 74; 11Bet Cas ; 2.27; 6600;occ; 99; 0;38770
 6; 3611.0; 30-JUL-2009 14:22:18; Bright; 57.5; 76; 27Gam Cas ; 2.30; 30000;occ; 115; 0;38770

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 4; 3100.0; 30-JUL-2009 15:54:23; Bright; 41.5; 89; 5Alp Cep ; 2.45; 8000;occ; 83; 0;38771
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 13; 5429.5; 30-JUL-2009 16:33:13; Dark ; 55.5; 165; 34Gam Eri ; 2.95; 3200;occ; 111; 0;38771
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 16; 6945.5; 30-JUL-2009 16:58:29; Dark ; 43.5; 31; Alp Gru ; 1.73; 15200;occ; 87; 0;38771
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 3; 2590.0; 30-JUL-2009 17:26:29; Bright; 42.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 85; 0;38772
 4; 2775.6; 30-JUL-2009 17:29:35; Bright; 42.5; 19; 50Alp Cyg ; 1.25; 10500;occ; 85; 0;38772
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 3; 1568.6; 30-JUL-2009 18:50:04; Bright; 54.0; 142; 49Del Cap ; 2.85; 8900;occ; 108; 0;38773
 4; 2589.4; 30-JUL-2009 19:07:05; Bright; 44.5; 92; 53Eps Cyg ; 2.50; 4500;occ; 89; 0;38773
 5; 2775.1; 30-JUL-2009 19:10:10; Bright; 62.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 124; 0;38773
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 7; 3493.6; 30-JUL-2009 19:22:09; Bright; 51.0; 74; 11Bet Cas ; 2.27; 6600;occ; 102; 0;38773
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 11; 4316.3; 30-JUL-2009 19:35:52; Bright; 46.5; 149; 45Eps Per ; 2.89; 30000;occ; 93; 0;38773
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13; 2772.8; 31-JUL-2009 03:33:08; Bright; 43.0; 19; 50Alp Cyg ; 1.25; 10500;occ; 86; 0;38778
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