

# GOMOS Daily Report 09-DEC-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	12DEC2009 05:01:30
Data source version	GOMOS/5.00L04
Start time of products	09DEC2009 00:11:17
Stop time of products	09DEC2009 23:58:40
Store outputs in DB	Yes
Nb of level 1b prods	141
Nb of prods with errors	1

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

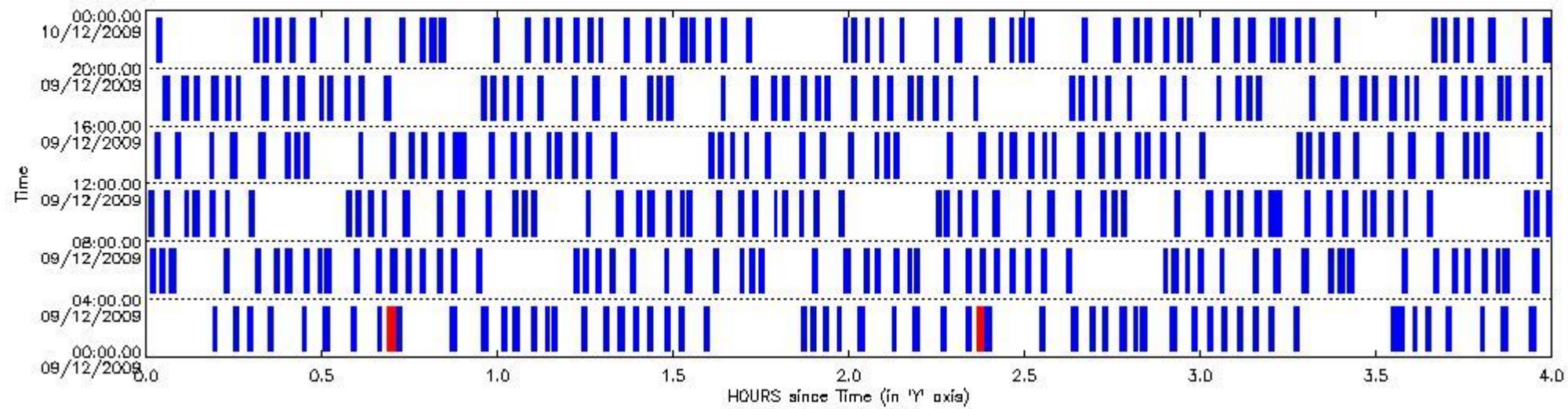
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
09-DEC-2009 00:41:14	4GamCrv	100	40651
09-DEC-2009 02:21:51	4GamCrv	100	40652

### 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_1PNPDE20091209_001117_000000482085_00016_40651_7072.N1	09-DEC-2009 00:11:17	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	40651	No
2	GOM_TRA_1PNPDE20091209_001501_000000472085_00016_40651_7073.N1	09-DEC-2009 00:15:01	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	40651	No
3	GOM_TRA_1PNPDE20091209_001721_000000392085_00016_40651_7074.N1	09-DEC-2009 00:17:21	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	40651	No
4	GOM_TRA_1PNPDE20091209_002053_000000412085_00016_40651_7075.N1	09-DEC-2009 00:20:53	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	40651	No
5	GOM_TRA_1PNPDE20091209_002642_000000362085_00016_40651_7076.N1	09-DEC-2009 00:26:42	Bright	35.500	111	8Eta Boo	2.6800	6000.0	71	40651	No
6	GOM_TRA_1PNPDE20091209_003010_000000652085_00016_40651_7077.N1	09-DEC-2009 00:30:10	Bright	65.000	138	47Eps Vir	2.8280	4700.0	130	40651	No
7	GOM_TRA_1PNPDE20091209_003459_000000512085_00016_40651_7078.N1	09-DEC-2009 00:34:59	Twilight	50.500	121	29Gam Vir	2.7400	7200.0	101	40651	No
8	GOM_TRA_1PNPDE20091209_003930_000000422085_00016_40651_7074.N1	09-DEC-2009 00:39:30	Twilight	41.500	169	46Gam Hya	2.9910	4700.0	83	40651	No
9	GOM_TRA_1PNPDE20091209_004242_000000512085_00016_40651_7075.N1	09-DEC-2009 00:42:42	Dark	50.500	171	2Eps Crv	3.0010	4250.0	101	40651	No

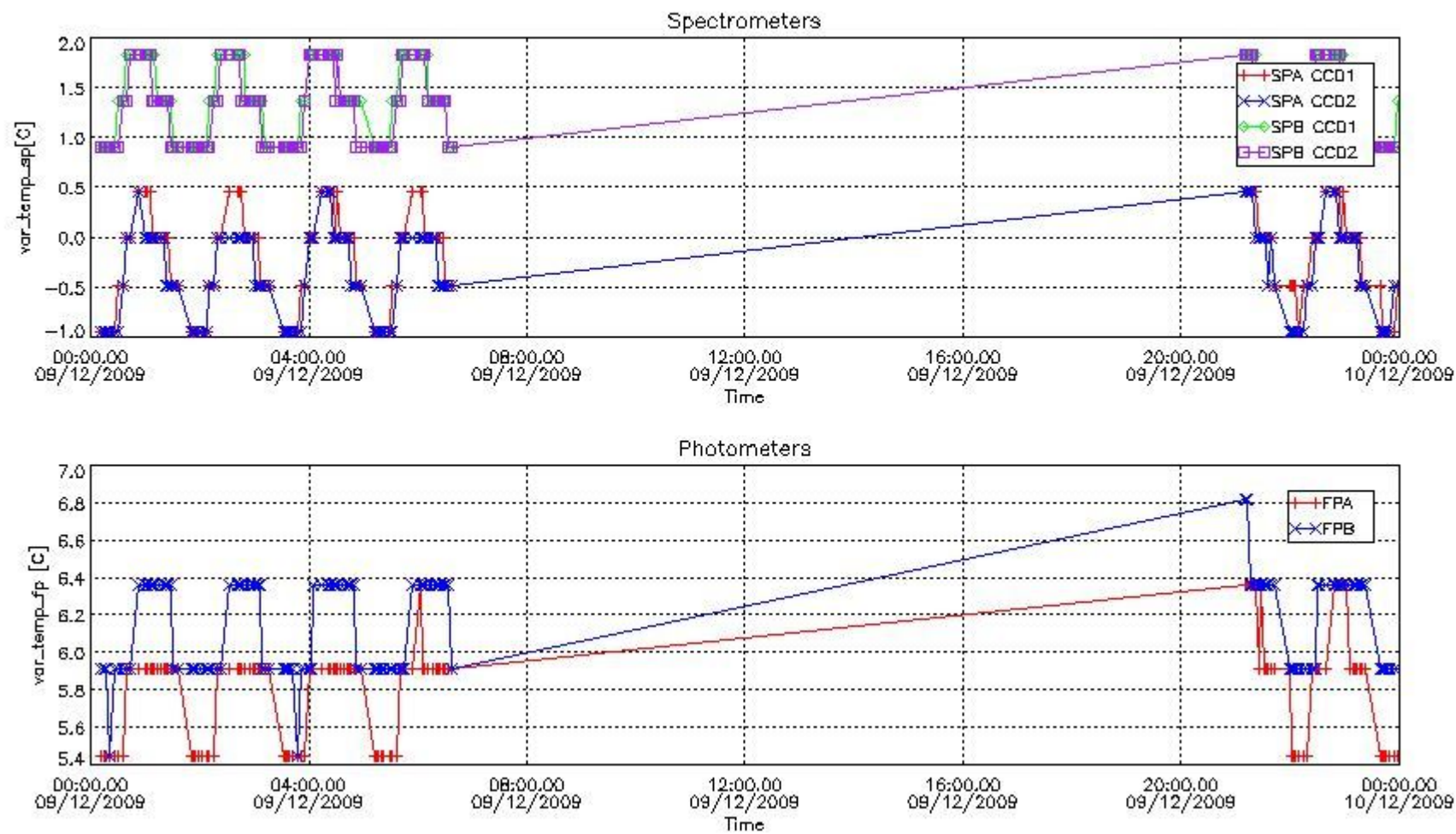
10	GOM_TRA_1PNPDE20091209_005158_000000522085_00017_40652_7076.N1	09-DEC-2009 00:51:58	Dark	51.500	113	Mu Vel	2.6920	5000.0	103	40652	No
11	GOM_TRA_1PNPDE20091209_010037_000000522085_00017_40652_7077.N1	09-DEC-2009 01:00:37	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	40652	No
12	GOM_TRA_1PNPDE20091209_010238_000000542085_00017_40652_7078.N1	09-DEC-2009 01:02:38	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40652	No
13	GOM_TRA_1PNPDE20091209_010542_000000562085_00017_40652_7079.N1	09-DEC-2009 01:05:42	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	40652	No
14	GOM_TRA_1PNPDE20091209_010810_000000292085_00017_40652_7080.N1	09-DEC-2009 01:08:10	Dark	29.000	88	31Eta CMa	2.4480	20000.	58	40652	No
15	GOM_TRA_1PNPDE20091209_010912_000000592085_00017_40652_7081.N1	09-DEC-2009 01:09:12	Dark	59.000	23	21Eps CMa	1.5020	26000.	118	40652	No
16	GOM_TRA_1PNPDE20091209_011419_000000582085_00017_40652_7082.N1	09-DEC-2009 01:14:19	Straylight	58.000	47	2Bet CMa	1.9760	28000.	116	40652	No
17	GOM_TRA_1PNPDE20091209_011804_000000502085_00017_40652_7083.N1	09-DEC-2009 01:18:04	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	40652	No
18	GOM_TRA_1PNPDE20091209_012036_000000542085_00017_40652_7084.N1	09-DEC-2009 01:20:36	Straylight	54.000	30	46Eps Ori	1.6940	30000.	108	40652	No
19	GOM_TRA_1PNPDE20091209_012305_000000532085_00017_40652_7085.N1	09-DEC-2009 01:23:05	Twilight	52.500	27	24Gam Ori	1.6360	26000.	105	40652	No
20	GOM_TRA_1PNPDE20091209_012538_000000512085_00017_40652_7086.N1	09-DEC-2009 01:25:38	Twilight	50.500	13	87Alp Tau	0.86700	3800.0	101	40652	No
21	GOM_TRA_1PNPDE20091209_012831_000000492085_00017_40652_7087.N1	09-DEC-2009 01:28:31	Bright	49.000	176	23Zet Tau	3.0200	22000.	98	40652	No
22	GOM_TRA_1PNPDE20091209_013104_000000452085_00017_40652_7088.N1	09-DEC-2009 01:31:04	Bright	44.500	114	3lot Aur	2.6930	4600.0	89	40652	No
23	GOM_TRA_1PNPDE20091209_013518_000000472085_00017_40652_7089.N1	09-DEC-2009 01:35:18	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40652	No
24	GOM_TRA_1PNPDE20091209_015152_000000472085_00017_40652_7090.N1	09-DEC-2009 01:51:52	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40652	No
25	GOM_TRA_1PNPDE20091209_015324_000000502085_00017_40652_7091.N1	09-DEC-2009 01:53:24	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	40652	No
26	GOM_TRA_1PNPDE20091209_015537_000000452085_00017_40652_7092.N1	09-DEC-2009 01:55:37	Bright	44.500	32	77Eps UMa	1.7630	11000.	89	40652	No
27	GOM_TRA_1PNPDE20091209_015757_000000362085_00017_40652_7093.N1	09-DEC-2009 01:57:57	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	40652	No
28	GOM_TRA_1PNPDE20091209_020129_000000632085_00017_40652_7094.N1	09-DEC-2009 02:01:29	Bright	63.000	152	12Alp2CVn	2.8900	11000.	126	40652	No
29	GOM_TRA_1PNPDE20091209_020718_000000372085_00017_40652_7095.N1	09-DEC-2009 02:07:18	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	40652	No
30	GOM_TRA_1PNPDE20091209_021047_000000652085_00017_40652_7096.N1	09-DEC-2009 02:10:47	Bright	64.500	138	47Eps Vir	2.8280	4700.0	129	40652	No
31	GOM_TRA_1PNPDE20091209_021536_000000562085_00017_40652_7103.N1	09-DEC-2009 02:15:36	Twilight	55.500	121	29Gam Vir	2.7400	7200.0	111	40652	No
32	GOM_TRA_1PNPDE20091209_022006_000000472085_00017_40652_7104.N1	09-DEC-2009 02:20:06	Twilight	46.500	169	46Gam Hya	2.9910	4700.0	93	40652	No
33	GOM_TRA_1PNPDE20091209_022320_000000522085_00017_40652_7105.N1	09-DEC-2009 02:23:20	Dark	52.000	171	2Eps Crv	3.0010	4250.0	104	40652	No
34	GOM_TRA_1PNPDE20091209_023235_000000452085_00018_40653_7106.N1	09-DEC-2009 02:32:35	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40653	No
35	GOM_TRA_1PNPDE20091209_024114_000000482085_00018_40653_7107.N1	09-DEC-2009 02:41:14	Dark	48.000	34	Gam2Vel	1.7930	23000.	96	40653	No
36	GOM_TRA_1PNPDE20091209_024314_000000522085_00018_40653_7108.N1	09-DEC-2009 02:43:14	Dark	51.500	70	Zet Pup	2.2460	39000.	103	40653	No
37	GOM_TRA_1PNPDE20091209_024619_000000572085_00018_40653_7109.N1	09-DEC-2009 02:46:19	Dark	56.500	117	Pi Pup	2.7060	3800.0	113	40653	No
38	GOM_TRA_1PNPDE20091209_024847_000000292085_00018_40653_7110.N1	09-DEC-2009 02:48:47	Dark	29.000	88	31Eta CMa	2.4480	20000.	58	40653	No
39	GOM_TRA_1PNPDE20091209_024949_000000592085_00018_40653_7111.N1	09-DEC-2009 02:49:49	Dark	58.500	23	21Eps CMa	1.5020	26000.	117	40653	No
40	GOM_TRA_1PNPDE20091209_025455_000000572085_00018_40653_7112.N1	09-DEC-2009 02:54:55	Straylight	56.500	47	2Bet CMa	1.9760	28000.	113	40653	No
41	GOM_TRA_1PNPDE20091209_025840_000000512085_00018_40653_7113.N1	09-DEC-2009 02:58:40	Straylight	50.500	7	19Bet Ori	0.10000	14000.	101	40653	No
42	GOM_TRA_1PNPDE20091209_030112_000000532085_00018_40653_7114.N1	09-DEC-2009 03:01:12	Straylight	52.500	30	46Eps Ori	1.6940	30000.	105	40653	No
43	GOM_TRA_1PNPDE20091209_030341_000000522085_00018_40653_7115.N1	09-DEC-2009 03:03:41	Twilight	52.000	27	24Gam Ori	1.6360	26000.	104	40653	No
44	GOM_TRA_1PNPDE20091209_030614_000000532085_00018_40653_7116.N1	09-DEC-2009 03:06:14	Twilight	52.500	13	87Alp Tau	0.86700	3800.0	105	40653	No
45	GOM_TRA_1PNPDE20091209_030907_000000492085_00018_40653_7117.N1	09-DEC-2009 03:09:07	Bright	48.500	176	23Zet Tau	3.0200	22000.	97	40653	No
46	GOM_TRA_1PNPDE20091209_031140_000000442085_00018_40653_7118.N1	09-DEC-2009 03:11:40	Bright	44.000	114	3lot Aur	2.6930	4600.0	88	40653	No
47	GOM_TRA_1PNPDE20091209_031554_000000472085_00018_40653_7119.N1	09-DEC-2009 03:15:54	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40653	No
48	GOM_TRA_1PNPDE20091209_033228_000000662085_00018_40653_7122.N1	09-DEC-2009 03:32:28	Bright	66.000	36	50Alp UMa	1.8000	6300.0	132	40653	No
49	GOM_TRA_1PNPDE20091209_033400_000000512085_00018_40653_7123.N1	09-DEC-2009 03:34:00	Bright	51.000	82	48Bet UMa	2.3650	10600.	102	40653	No
50	GOM_TRA_1PNPDE20091209_033613_000000402085_00018_40653_7124.N1	09-DEC-2009 03:36:13	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	40653	No
51	GOM_TRA_1PNPDE20091209_033832_000000382085_00018_40653_7125.N1	09-DEC-2009 03:38:32	Bright	37.500	39	85Eta UMa	1.8540	24000.	75	40653	No
52	GOM_TRA_1PNPDE20091209_034205_000000422085_00018_40653_7126.N1	09-DEC-2009 03:42:05	Bright	41.500	152	12Alp2CVn	2.8900	11000.	83	40653	No
53	GOM_TRA_1PNPDE20091209_034754_000000372085_00018_40653_7127.N1	09-DEC-2009 03:47:54	Bright	36.500	111	8Eta Boo	2.6800	6000.0	73	40653	No
54	GOM_TRA_1PNPDE20091209_035123_000000652085_00018_40653_7128.N1	09-DEC-2009 03:51:23	Bright	65.000	138	47Eps Vir	2.8280	4700.0	130	40653	No
55	GOM_TRA_1PNPDE20091209_035612_000000552085_00018_40653_7129.N1	09-DEC-2009 03:56:12	Twilight	54.500	121	29Gam Vir	2.7400	7200.0	109	40653	No
56	GOM_TRA_1PNPDE20091209_040043_000000442085_00018_40653_7130.N1	09-DEC-2009 04:00:43	Twilight	43.500	169	46Gam Hya	2.9910	4700.0	87	40653	No
57	GOM_TRA_1PNPDE20091209_040220_000000512085_00018_40653_7131.N1	09-DEC-2009 04:02:20	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	40653	No
58	GOM_TRA_1PNPDE20091209_040357_000000562085_00018_40653_7132.N1	09-DEC-2009 04:03:57	Dark	56.000	171	2Eps Crv	3.0010	4250.0	112	40653	No
59	GOM_TRA_1PNPDE20091209_041311_000000472085_00019_40654_7133.N1	09-DEC-2009 04:13:11	Dark	47.000	113	Mu Vel	2.6920	5000.0	94	40654	No
60	GOM_TRA_1PNPDE20091209_042151_000000472085_00019_40654_7134.N1	09-DEC-2009 04:21:51	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40654	No
61	GOM_TRA_1PNPDE20091209_042351_000000532085_00019_40654_7135.N1	09-DEC-2009 04:23:51	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40654	No
62	GOM_TRA_1PNPDE20091209_042655_000000562085_00019_40654_7136.N1	09-DEC-2009 04:26:55	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	40654	No
63	GOM_TRA_1PNPDE20091209_042923_000000332085_00019_40654_7137.N1	09-DEC-2009 04:29:23	Dark	33.000	88	31Eta CMa	2.4480	20000.	66	40654	No
64	GOM_TRA_1PNPDE20091209_043025_000000592085_00019_40654_7138.N1	09-DEC-2009 04:30:25	Dark	58.500	23	21Eps CMa	1.5020	26000.	117	40654	No
65	GOM_TRA_1PNPDE20091209_043531_000000572085_00019_40654_7139.N1	09-DEC-2009 04:35:31	Straylight	56.500	47	2Bet CMa	1.9760	28000.	113	40654	No
66	GOM_TRA_1PNPDE20091209_043916_000000522085_00019_40654_7140.N1	09-DEC-2009 04:39:16	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	40654	No
67	GOM_TRA_1PNPDE20091209_044147_000000532085_00019_40654_7141.N1	09-DEC-2009 04:41:47	Straylight	52.500	30	46Eps Ori	1.6940	30000.	105	40654	No
68	GOM_TRA_1PNPDE20091209_044417_000000522085_00019_40654_7142.N1	09-DEC-2009 04:44:17	Twilight	51.500	27	24Gam Ori	1.6360	26000.	103	40654	No



69	GOM_TRA_1PNPDE20091209_044650_000000502085_00019_40654_7143.N1	09-DEC-2009 04:46:50	Twilight	50.000	13	87Alp Tau	0.86700	3800.0	100	40654	No
70	GOM_TRA_1PNPDE20091209_044942_000000472085_00019_40654_7144.N1	09-DEC-2009 04:49:42	Bright	46.500	176	23Zet Tau	3.0200	22000.	93	40654	No
71	GOM_TRA_1PNPDE20091209_045215_000000442085_00019_40654_7145.N1	09-DEC-2009 04:52:15	Bright	43.500	114	31ot Aur	2.6930	4600.0	87	40654	No
72	GOM_TRA_1PNPDE20091209_045629_000000452085_00019_40654_7146.N1	09-DEC-2009 04:56:29	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	40654	No
73	GOM_TRA_1PNPDE20091209_051303_000000502085_00019_40654_7147.N1	09-DEC-2009 05:13:03	Bright	49.500	36	50Alp UMa	1.8000	6300.0	99	40654	No
74	GOM_TRA_1PNPDE20091209_051435_000000502085_00019_40654_7148.N1	09-DEC-2009 05:14:35	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	40654	No
75	GOM_TRA_1PNPDE20091209_051649_000000432085_00019_40654_7149.N1	09-DEC-2009 05:16:49	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	40654	No
76	GOM_TRA_1PNPDE20091209_051908_000000552085_00019_40654_7150.N1	09-DEC-2009 05:19:08	Bright	55.000	39	85Eta UMa	1.8540	24000.	110	40654	No
77	GOM_TRA_1PNPDE20091209_052241_000000442085_00019_40654_7151.N1	09-DEC-2009 05:22:41	Bright	43.500	152	12Alp2CVn	2.8900	11000.	87	40654	No
78	GOM_TRA_1PNPDE20091209_052830_000000372085_00019_40654_7152.N1	09-DEC-2009 05:28:30	Bright	37.000	111	8Eta Boo	2.6800	6000.0	74	40654	No
79	GOM_TRA_1PNPDE20091209_053159_000000642085_00019_40654_7153.N1	09-DEC-2009 05:31:59	Bright	63.500	138	47Eps Vir	2.8280	4700.0	127	40654	No
80	GOM_TRA_1PNPDE20091209_053649_000000562085_00019_40654_7154.N1	09-DEC-2009 05:36:49	Twilight	55.500	121	29Gam Vir	2.7400	7200.0	111	40654	No
81	GOM_TRA_1PNPDE20091209_054119_000000452085_00019_40654_7155.N1	09-DEC-2009 05:41:19	Twilight	45.000	169	46Gam Hya	2.9910	4700.0	90	40654	No
82	GOM_TRA_1PNPDE20091209_054257_000000522085_00019_40654_7156.N1	09-DEC-2009 05:42:57	Dark	52.000	100	4Gam Crv	2.5800	13100.	104	40654	No
83	GOM_TRA_1PNPDE20091209_054434_000000582085_00019_40654_7157.N1	09-DEC-2009 05:44:34	Dark	57.500	171	2Eps Crv	3.0010	4250.0	115	40654	No
84	GOM_TRA_1PNPDE20091209_055348_000000452085_00020_40655_7158.N1	09-DEC-2009 05:53:48	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40655	No
85	GOM_TRA_1PNPDE20091209_060228_000000512085_00020_40655_7159.N1	09-DEC-2009 06:02:28	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	40655	No
86	GOM_TRA_1PNPDE20091209_060428_000000522085_00020_40655_7160.N1	09-DEC-2009 06:04:28	Dark	51.500	70	Zet Pup	2.2460	39000.	103	40655	No
87	GOM_TRA_1PNPDE20091209_060732_000000592085_00020_40655_7161.N1	09-DEC-2009 06:07:32	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	40655	No
88	GOM_TRA_1PNPDE20091209_061000_000000332085_00020_40655_7162.N1	09-DEC-2009 06:10:00	Dark	33.000	88	31Eta CMa	2.4480	20000.	66	40655	No
89	GOM_TRA_1PNPDE20091209_061102_000000612085_00020_40655_7163.N1	09-DEC-2009 06:11:02	Dark	60.500	23	21Eps CMa	1.5020	26000.	121	40655	No
90	GOM_TRA_1PNPDE20091209_061607_000000572085_00020_40655_7164.N1	09-DEC-2009 06:16:07	Straylight	56.500	47	2Bet CMa	1.9760	28000.	113	40655	No
91	GOM_TRA_1PNPDE20091209_061952_000000522085_00020_40655_7165.N1	09-DEC-2009 06:19:52	Straylight	52.000	7	19Bet Ori	0.10000	14000.	104	40655	No
92	GOM_TRA_1PNPDE20091209_062223_000000542085_00020_40655_7166.N1	09-DEC-2009 06:22:23	Straylight	54.000	30	46Eps Ori	1.6940	30000.	108	40655	No
93	GOM_TRA_1PNPDE20091209_062453_000000522085_00020_40655_7167.N1	09-DEC-2009 06:24:53	Twilight	52.000	27	24Gam Ori	1.6360	26000.	104	40655	No
94	GOM_TRA_1PNPDE20091209_062725_000000552085_00020_40655_7168.N1	09-DEC-2009 06:27:25	Twilight	55.000	13	87Alp Tau	0.86700	3800.0	110	40655	No
95	GOM_TRA_1PNPDE20091209_063018_000000472085_00020_40655_7169.N1	09-DEC-2009 06:30:18	Bright	47.000	176	23Zet Tau	3.0200	22000.	94	40655	No
96	GOM_TRA_1PNPDE20091209_063251_000000442085_00020_40655_7170.N1	09-DEC-2009 06:32:51	Bright	44.000	114	31ot Aur	2.6930	4600.0	88	40655	No
97	GOM_TRA_1PNPDE20091209_063705_000000472085_00020_40655_7171.N1	09-DEC-2009 06:37:05	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40655	No
98	GOM_TRA_1PNPDE20091209_211000_000000562085_00029_40664_7212.N1	09-DEC-2009 21:10:00	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40664	Yes
99	GOM_TRA_1PNPDE20091209_211301_000000562085_00029_40664_7213.N1	09-DEC-2009 21:13:01	Dark	56.000	117	Pi Pup	2.7060	3800.0	112	40664	No
100	GOM_TRA_1PNPDE20091209_211529_000000492085_00029_40664_7214.N1	09-DEC-2009 21:15:29	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	40664	No
101	GOM_TRA_1PNPDE20091209_211712_000000432085_00029_40664_7215.N1	09-DEC-2009 21:17:12	Straylight	43.000	37	25Del CMa	1.8300	5900.0	86	40664	No
102	GOM_TRA_1PNPDE20091209_212132_000000582085_00029_40664_7216.N1	09-DEC-2009 21:21:32	Straylight	57.500	47	2Bet CMa	1.9760	28000.	115	40664	No
103	GOM_TRA_1PNPDE20091209_212515_000000542085_00029_40664_7217.N1	09-DEC-2009 21:25:15	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	40664	No
104	GOM_TRA_1PNPDE20091209_212745_000000542085_00029_40664_7218.N1	09-DEC-2009 21:27:45	Straylight	53.500	30	46Eps Ori	1.6940	30000.	107	40664	No
105	GOM_TRA_1PNPDE20091209_213119_000000542085_00029_40664_7219.N1	09-DEC-2009 21:31:19	Twilight	54.000	14	58Alp Ori	0.87000	3000.0	108	40664	No
106	GOM_TRA_1PNPDE20091209_213247_000000572085_00029_40664_7220.N1	09-DEC-2009 21:32:47	Twilight	57.000	13	87Alp Tau	0.86700	3800.0	114	40664	No
107	GOM_TRA_1PNPDE20091209_213535_000000462085_00029_40664_7221.N1	09-DEC-2009 21:35:35	Bright	46.000	176	23Zet Tau	3.0200	22000.	92	40664	No
108	GOM_TRA_1PNPDE20091209_213811_000000442085_00029_40664_7222.N1	09-DEC-2009 21:38:11	Bright	43.500	114	31ot Aur	2.6930	4600.0	87	40664	No
109	GOM_TRA_1PNPDE20091209_214224_000000482085_00029_40664_7223.N1	09-DEC-2009 21:42:24	Bright	47.500	6	13Alp Aur	0.080000	3400.0	95	40664	No
110	GOM_TRA_1PNPDE20091209_215858_000000482085_00029_40664_7224.N1	09-DEC-2009 21:58:58	Bright	47.500	36	50Alp UMa	1.8000	6300.0	95	40664	No
111	GOM_TRA_1PNPDE20091209_220030_000000492085_00029_40664_7225.N1	09-DEC-2009 22:00:30	Bright	49.000	82	48Bet UMa	2.3650	10600.	98	40664	No
112	GOM_TRA_1PNPDE20091209_220246_000000442085_00029_40664_7226.N1	09-DEC-2009 22:02:46	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	40664	No
113	GOM_TRA_1PNPDE20091209_220508_000000392085_00029_40664_7227.N1	09-DEC-2009 22:05:08	Bright	38.500	39	85Eta UMa	1.8540	24000.	77	40664	No
114	GOM_TRA_1PNPDE20091209_220841_000000442085_00029_40664_7228.N1	09-DEC-2009 22:08:41	Bright	44.000	152	12Alp2CVn	2.8900	11000.	88	40664	No
115	GOM_TRA_1PNPDE20091209_221432_000000382085_00029_40664_7229.N1	09-DEC-2009 22:14:32	Bright	38.000	111	8Eta Boo	2.6800	6000.0	76	40664	No
116	GOM_TRA_1PNPDE20091209_221804_000000662085_00029_40664_7230.N1	09-DEC-2009 22:18:04	Bright	66.000	138	47Eps Vir	2.8280	4700.0	132	40664	No
117	GOM_TRA_1PNPDE20091209_222357_000000482085_00029_40664_7232.N1	09-DEC-2009 22:23:57	Bright	48.000	15	67Alp Vir	0.97600	28000.	96	40664	No
118	GOM_TRA_1PNPDE20091209_222725_000000452085_00029_40664_7233.N1	09-DEC-2009 22:27:25	Twilight	44.500	169	46Gam Hya	2.9910	4700.0	89	40664	No
119	GOM_TRA_1PNPDE20091209_222907_000000512085_00029_40664_7234.N1	09-DEC-2009 22:29:07	Dark	51.000	100	4Gam Crv	2.5800	13100.	102	40664	No
120	GOM_TRA_1PNPDE20091209_223044_000000552085_00029_40664_7235.N1	09-DEC-2009 22:30:44	Dark	55.000	171	2Eps Crv	3.0010	4250.0	110	40664	No
121	GOM_TRA_1PNPDE20091209_223956_000000472085_00030_40665_7236.N1	09-DEC-2009 22:39:56	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40665	No
122	GOM_TRA_1PNPDE20091209_224835_000000492085_00030_40665_7237.N1	09-DEC-2009 22:48:35	Dark	48.500	34	Gam2Vel	1.7930	23000.	97	40665	No
123	GOM_TRA_1PNPDE20091209_225036_000000532085_00030_40665_7238.N1	09-DEC-2009 22:50:36	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40665	No
124	GOM_TRA_1PNPDE20091209_225338_000000552085_00030_40665_7239.N1	09-DEC-2009 22:53:38	Dark	55.000	117	Pi Pup	2.7060	3800.0	110	40665	No
125	GOM_TRA_1PNPDE20091209_225606_000000492085_00030_40665_7240.N1	09-DEC-2009 22:56:06	Dark	49.000	88	31Eta CMa	2.4480	20000.	98	40665	No
126	GOM_TRA_1PNPDE20091209_225749_000000432085_00030_40665_7241.N1	09-DEC-2009 22:57:49	Straylight	43.000	37	25Del CMa	1.8300	5900.0	86	40665	No
127	GOM_TRA_1PNPDE20091209_230208_000000572085_00030_40665_7242.N1	09-DEC-2009 23:02:08	Straylight	57.000	47	2Bet CMa	1.9760	28000.	114	40665	No

128	GOM_TRA_1PNPDE20091209_230551_000000502085_00030_40665_7243.N1	09-DEC-2009 23:05:51	Straylight	50.000	7	19Bet Ori	0.10000	14000.	100	40665	No
129	GOM_TRA_1PNPDE20091209_230821_000000522085_00030_40665_7244.N1	09-DEC-2009 23:08:21	Straylight	51.500	30	46Eps Ori	1.6940	30000.	103	40665	No
130	GOM_TRA_1PNPDE20091209_231154_000000542085_00030_40665_7245.N1	09-DEC-2009 23:11:54	Twilight_stray	54.000	14	58Alp Ori	0.87000	3000.0	108	40665	No
131	GOM_TRA_1PNPDE20091209_231323_000000532085_00030_40665_7246.N1	09-DEC-2009 23:13:23	Twilight_stray	52.500	13	87Alp Tau	0.86700	3800.0	105	40665	No
132	GOM_TRA_1PNPDE20091209_231611_000000492085_00030_40665_7247.N1	09-DEC-2009 23:16:11	Bright	49.000	176	23Zet Tau	3.0200	22000.	98	40665	No
133	GOM_TRA_1PNPDE20091209_231846_000000422085_00030_40665_7248.N1	09-DEC-2009 23:18:46	Bright	41.500	114	3Iot Aur	2.6930	4600.0	83	40665	No
134	GOM_TRA_1PNPDE20091209_232259_000000462085_00030_40665_7249.N1	09-DEC-2009 23:22:59	Bright	46.000	6	13Alp Aur	0.080000	3400.0	92	40665	No
135	GOM_TRA_1PNPDE20091209_233934_000000422085_00030_40665_7250.N1	09-DEC-2009 23:39:34	Bright	41.500	36	50Alp UMa	1.8000	6300.0	83	40665	No
136	GOM_TRA_1PNPDE20091209_234105_000000502085_00030_40665_7251.N1	09-DEC-2009 23:41:05	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	40665	No
137	GOM_TRA_1PNPDE20091209_234322_000000452085_00030_40665_7252.N1	09-DEC-2009 23:43:22	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	40665	No
138	GOM_TRA_1PNPDE20091209_234544_000000562085_00030_40665_7253.N1	09-DEC-2009 23:45:44	Bright	56.000	39	85Eta UMa	1.8540	24000.	112	40665	No
139	GOM_TRA_1PNPDE20091209_234916_000000642085_00030_40665_7254.N1	09-DEC-2009 23:49:16	Bright	64.000	152	12Alp2CVn	2.8900	11000.	128	40665	No
140	GOM_TRA_1PNPDE20091209_235508_000000382085_00030_40665_7255.N1	09-DEC-2009 23:55:08	Bright	37.500	111	8Eta Boo	2.6800	6000.0	75	40665	No
141	GOM_TRA_1PNPDE20091209_235840_000000632085_00030_40665_7256.N1	09-DEC-2009 23:58:40	Bright	63.000	138	47Eps Vir	2.8280	4700.0	126	40665	No

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



### 4. Overview of dark signal processing per product

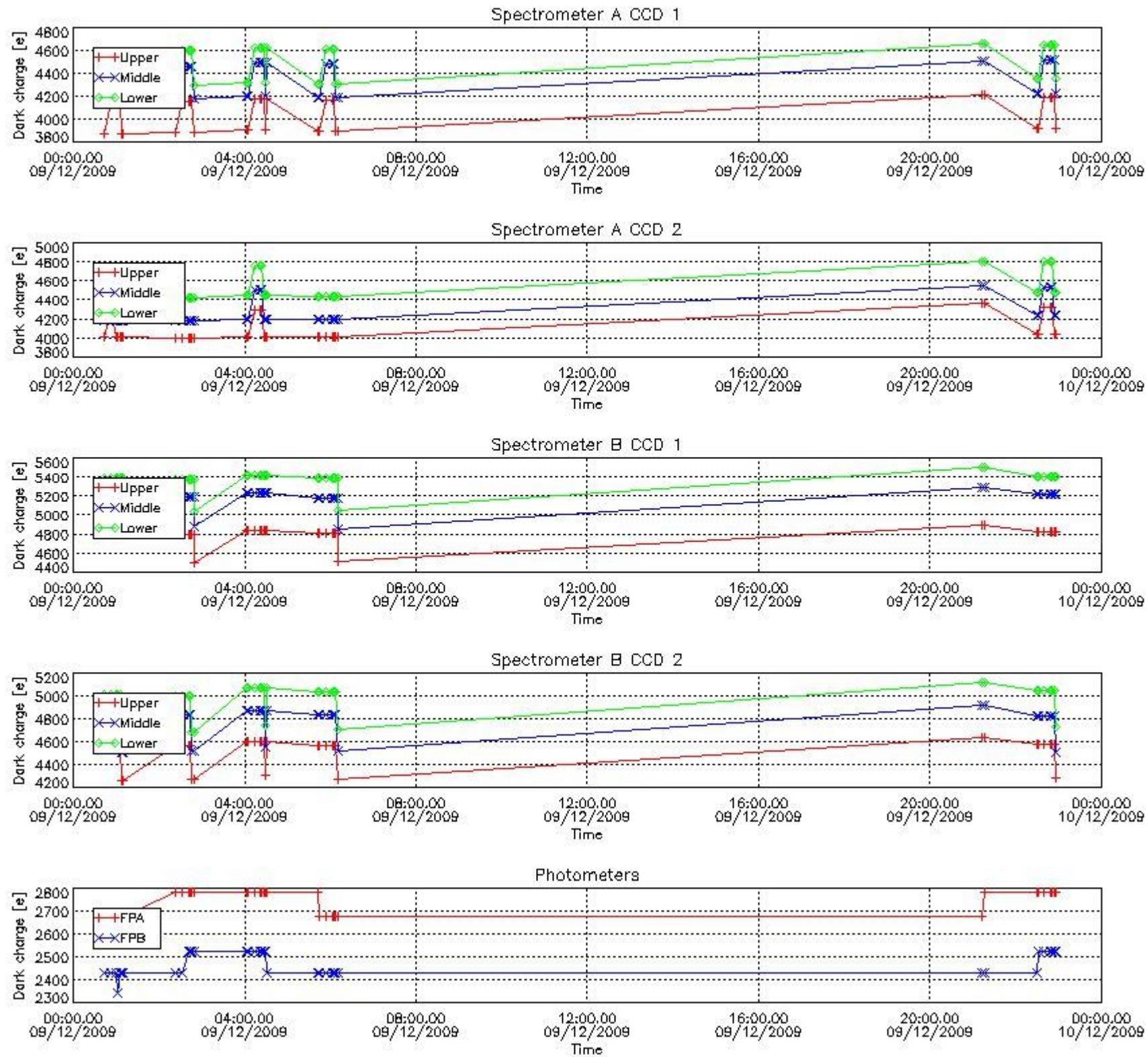
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091209_211000_000000562085_00029_40664_7212.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091209_211301_000000562085_00029_40664_7213.N1	DC map used
GOM_TRA_1PNPDE20091209_211529_000000492085_00029_40664_7214.N1	DC map used
GOM_TRA_1PNPDE20091209_211712_000000432085_00029_40664_7215.N1	DC map used
GOM_TRA_1PNPDE20091209_212132_000000582085_00029_40664_7216.N1	DC map used
GOM_TRA_1PNPDE20091209_212515_000000542085_00029_40664_7217.N1	DC map used
GOM_TRA_1PNPDE20091209_212745_000000542085_00029_40664_7218.N1	DC map used
GOM_TRA_1PNPDE20091209_213119_000000542085_00029_40664_7219.N1	DC map used
GOM_TRA_1PNPDE20091209_213247_000000572085_00029_40664_7220.N1	DC map used
GOM_TRA_1PNPDE20091209_213535_000000462085_00029_40664_7221.N1	DC map used
GOM_TRA_1PNPDE20091209_213811_000000442085_00029_40664_7222.N1	DC map used
GOM_TRA_1PNPDE20091209_214224_000000482085_00029_40664_7223.N1	DC map used
GOM_TRA_1PNPDE20091209_215858_000000482085_00029_40664_7224.N1	DC map used
GOM_TRA_1PNPDE20091209_220030_000000492085_00029_40664_7225.N1	DC map used
GOM_TRA_1PNPDE20091209_220246_000000442085_00029_40664_7226.N1	DC map used
GOM_TRA_1PNPDE20091209_220508_000000392085_00029_40664_7227.N1	DC map used
GOM_TRA_1PNPDE20091209_220841_000000442085_00029_40664_7228.N1	DC map used
GOM_TRA_1PNPDE20091209_221432_000000382085_00029_40664_7229.N1	DC map used
GOM_TRA_1PNPDE20091209_221804_000000662085_00029_40664_7230.N1	DC map used

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





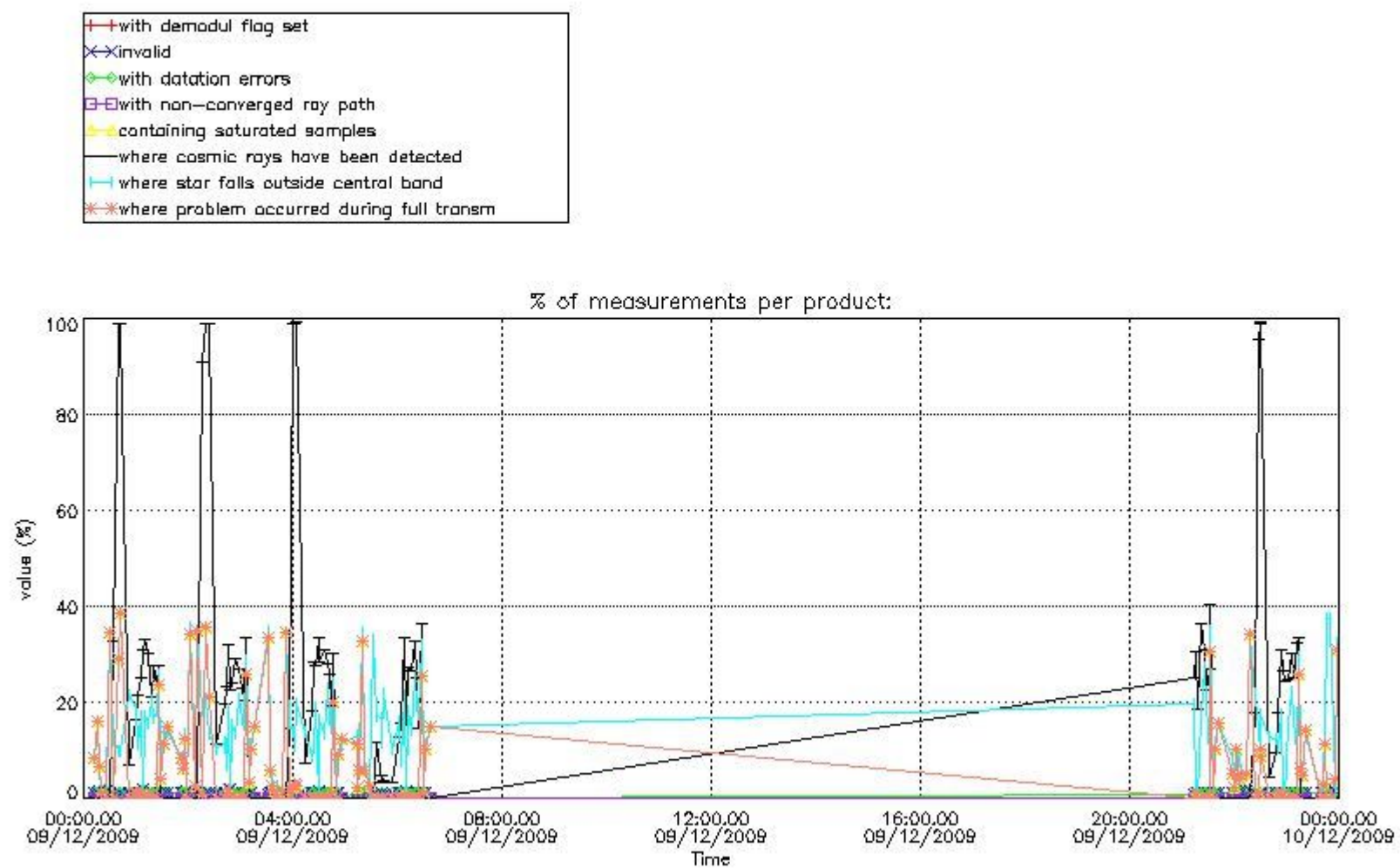
## 5. Demodulation flag and quality information monitoring

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:

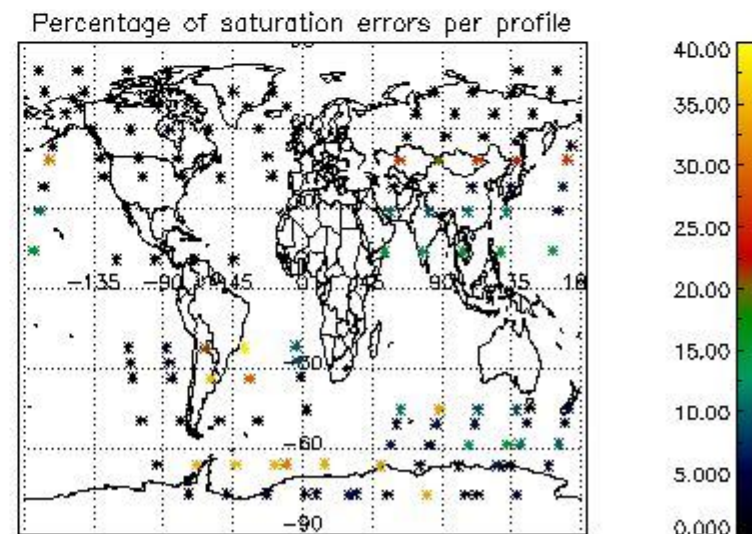
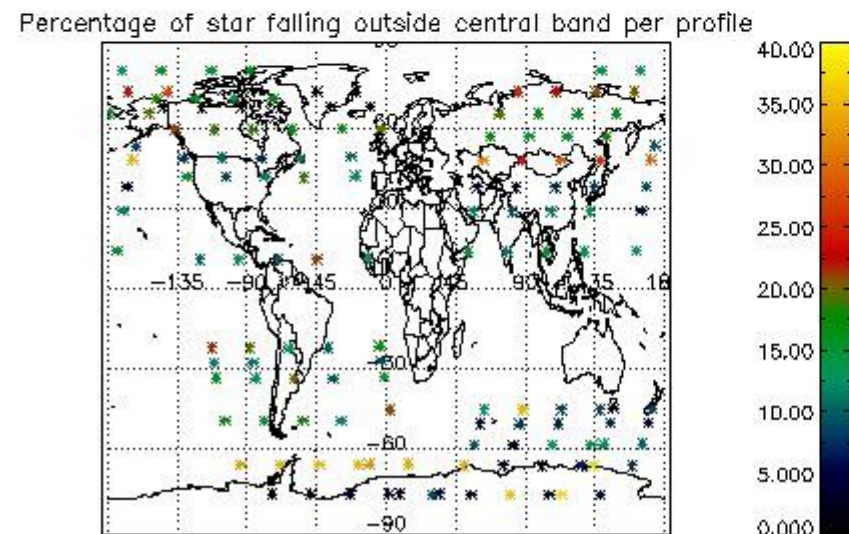
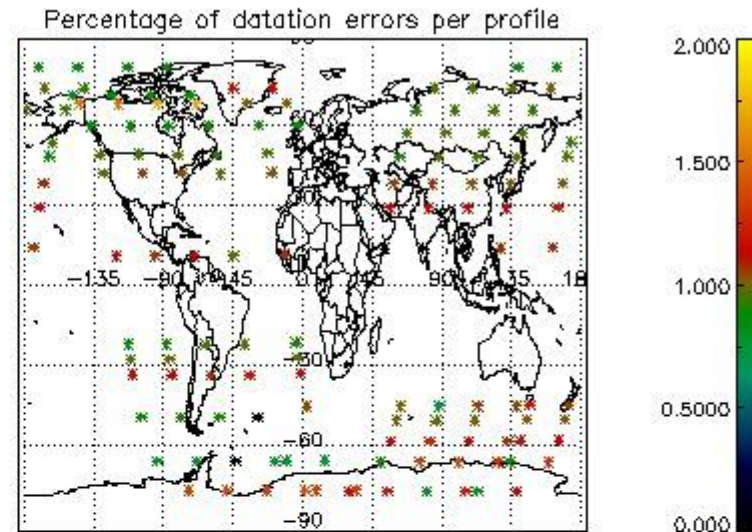
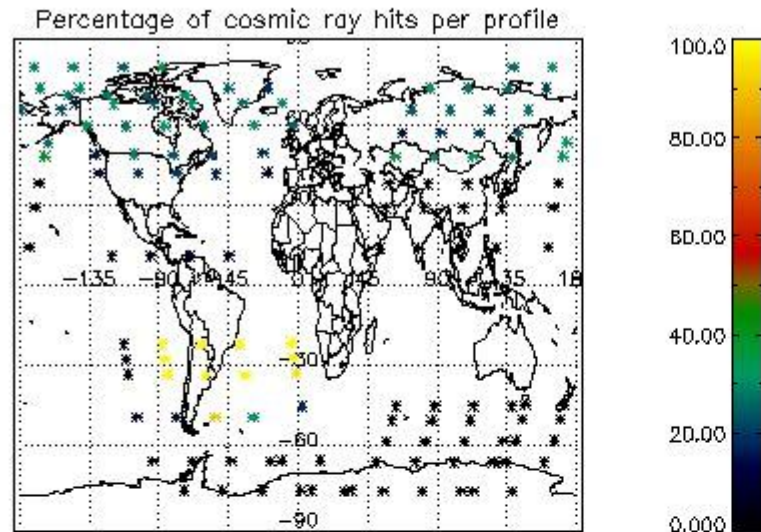
At least one measurement with demodulation flag set:	48.5714 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





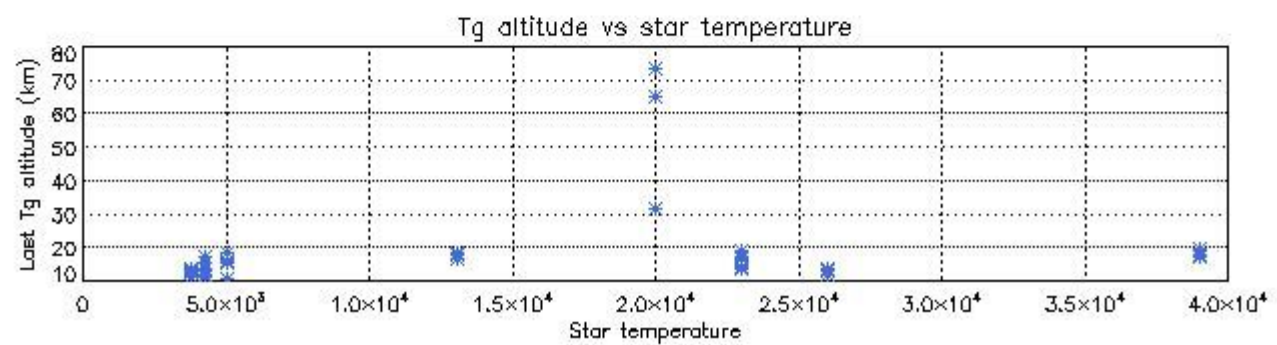
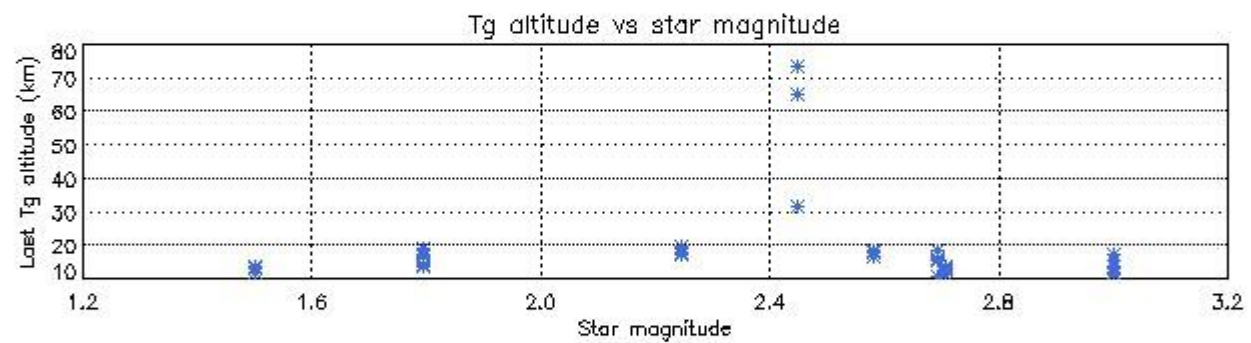
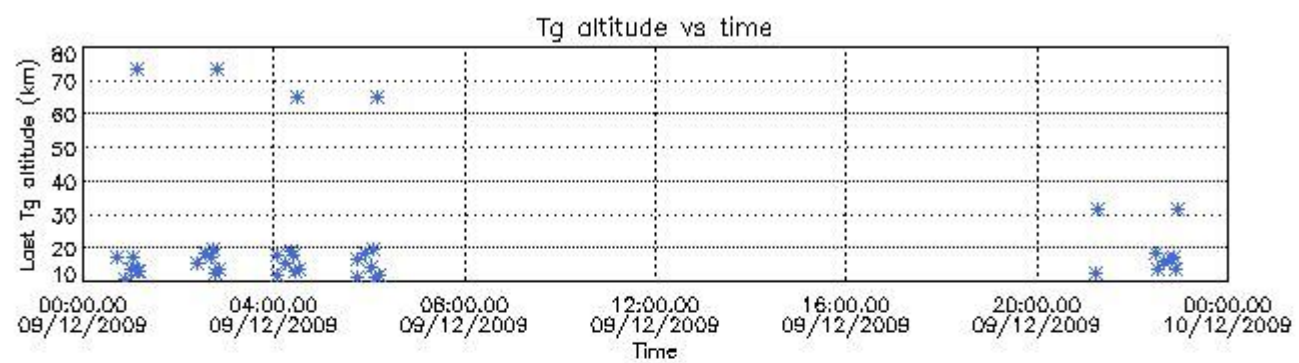
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	21.554	16.686	13.677
St. deviation:	16.913	6.8160	1.9256
Maximum:	73.159	27.426	16.262
Minimum:	10.615	3.4447	10.927
Number of data:	39.000	60.000	5.0000

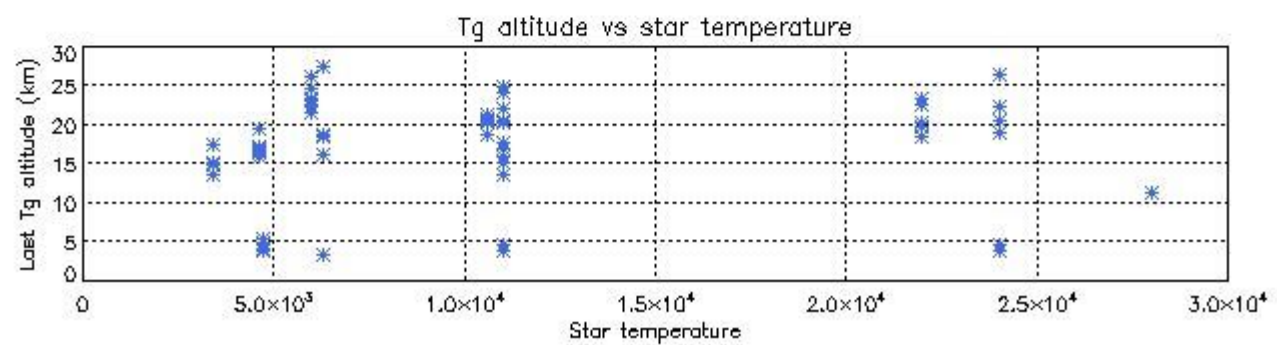
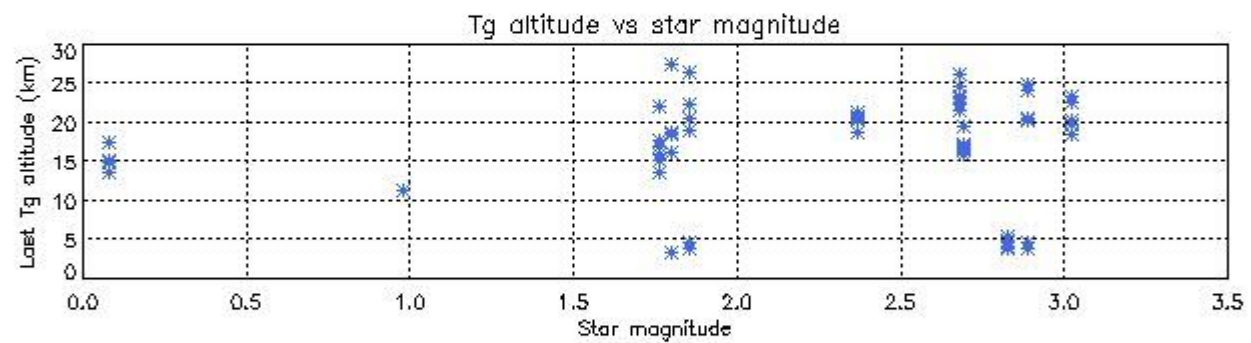
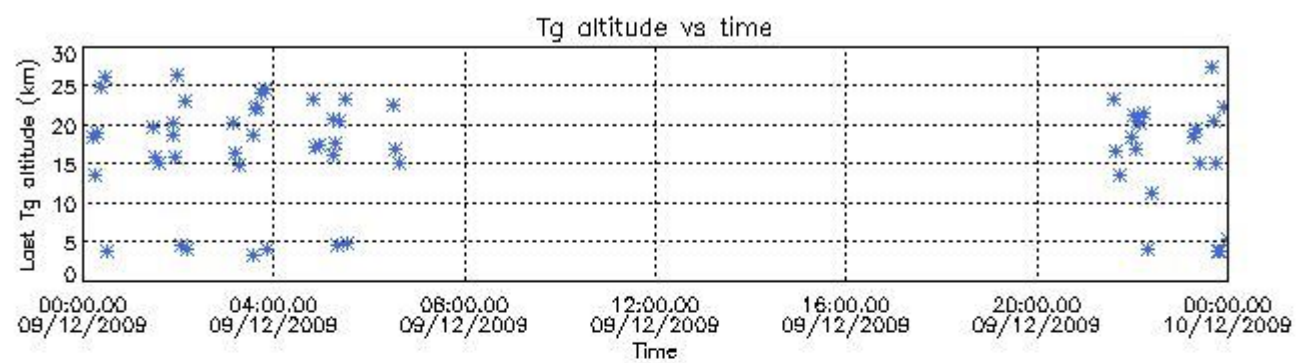
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

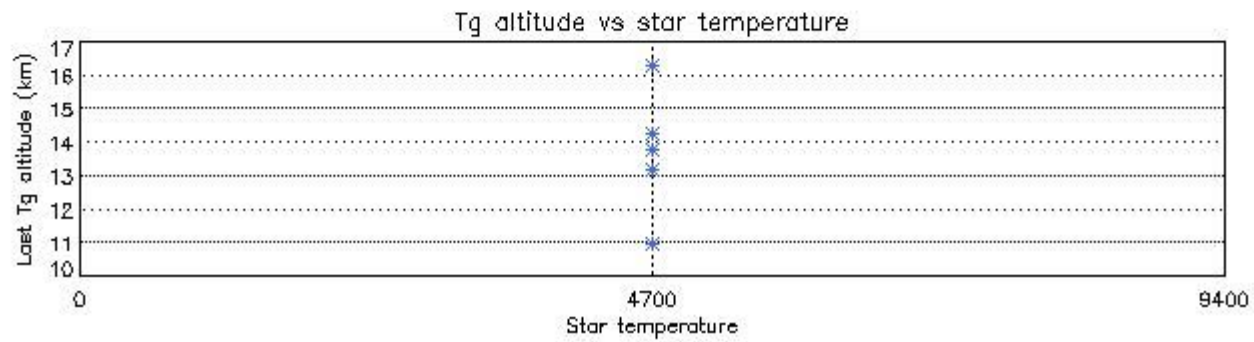
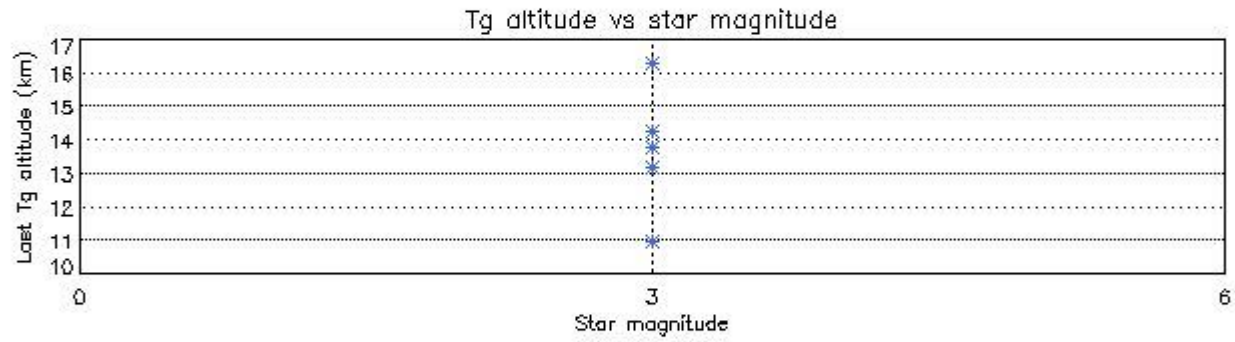
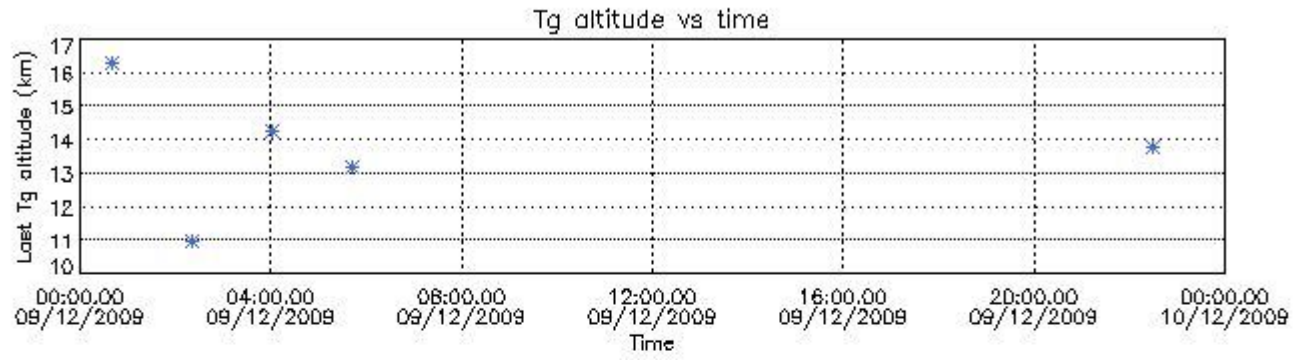
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

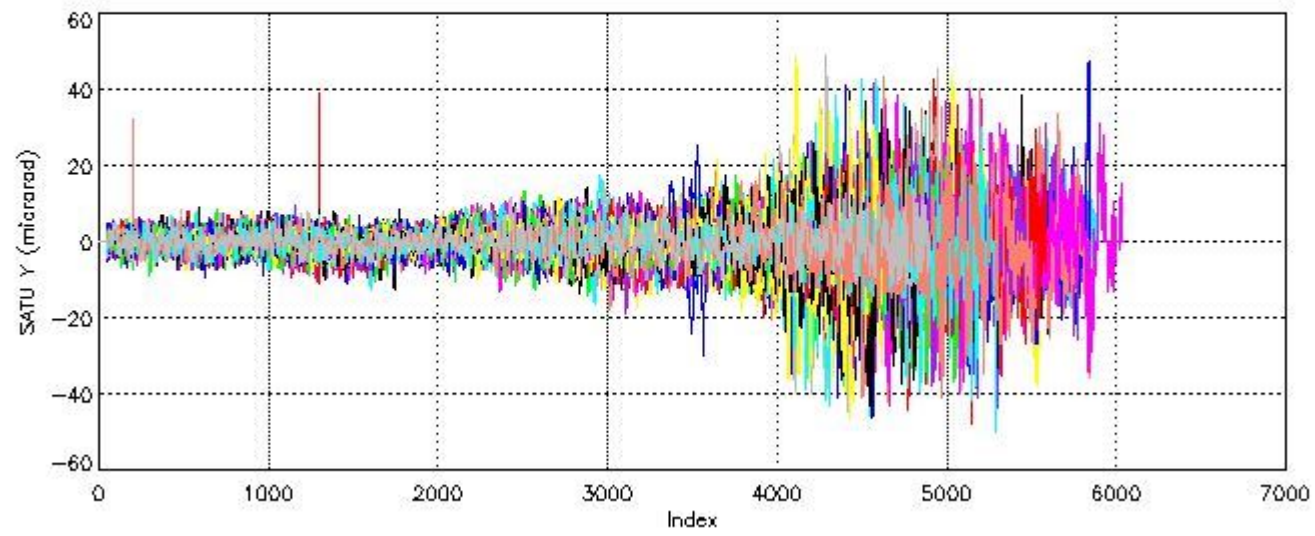
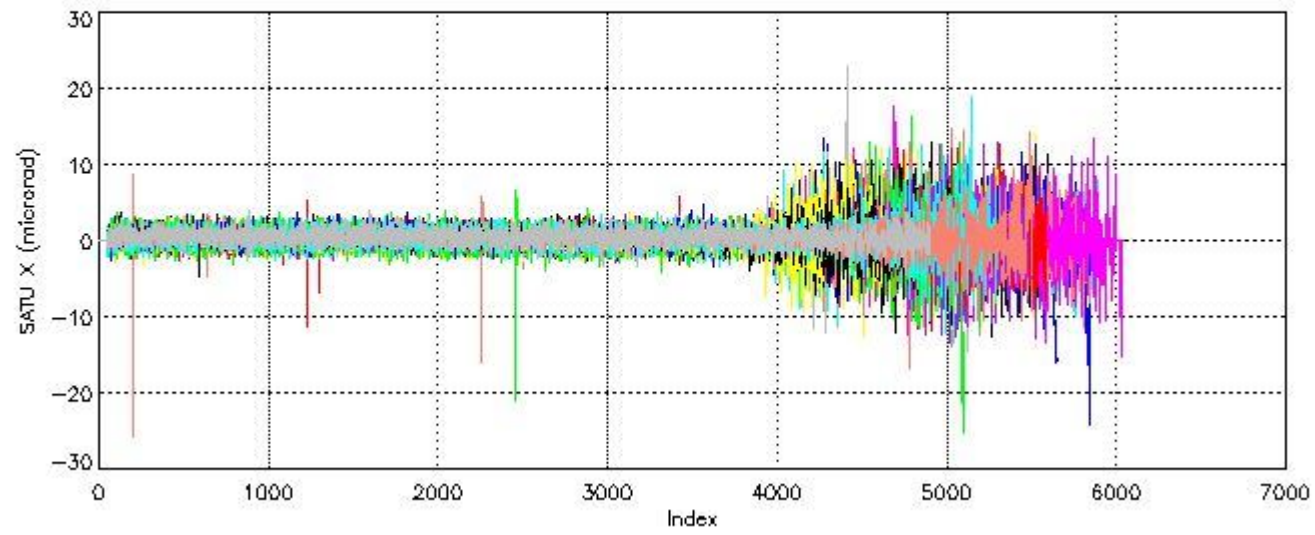


## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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



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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.28403	0.094158	0.20576	-0.21862
St. deviation:	0.64615	2.1469	0.79866	2.3480
Maximum:	8.6000	32.200	5.8000	11.300
Minimum:	-25.700	-9.7000	-5.2000	-12.100

Number of data:	45150.	45150.	61100.	61100.
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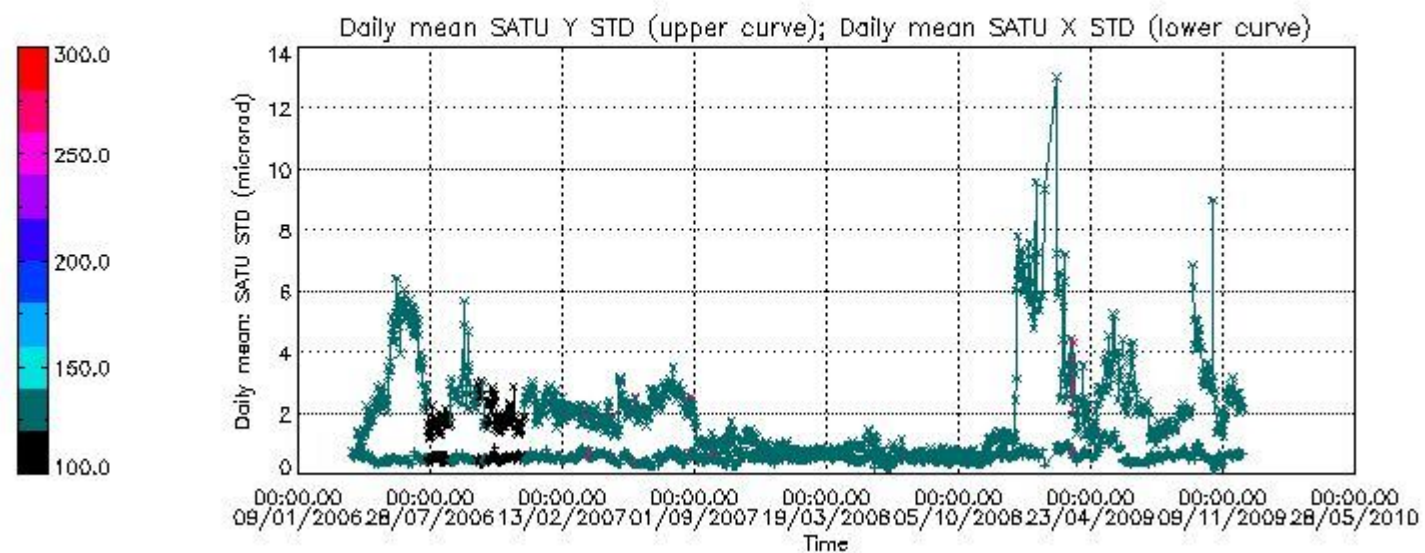
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

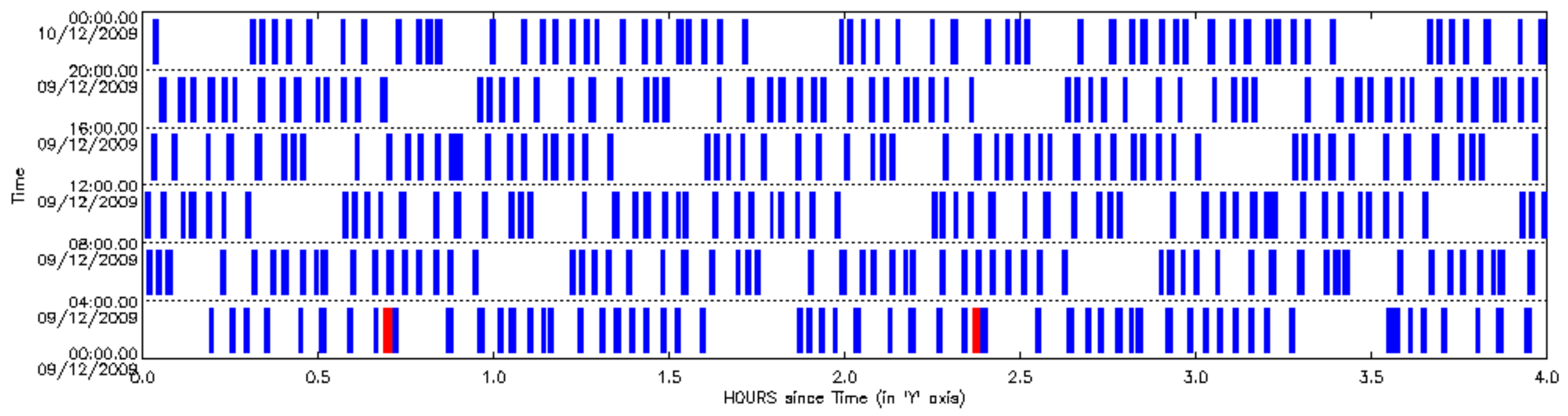


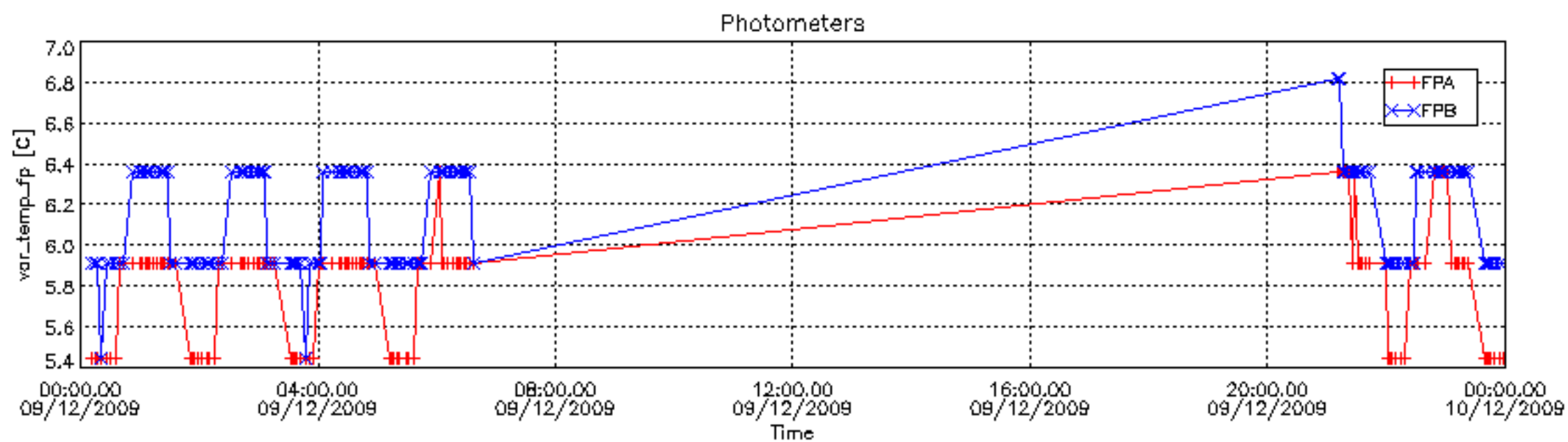
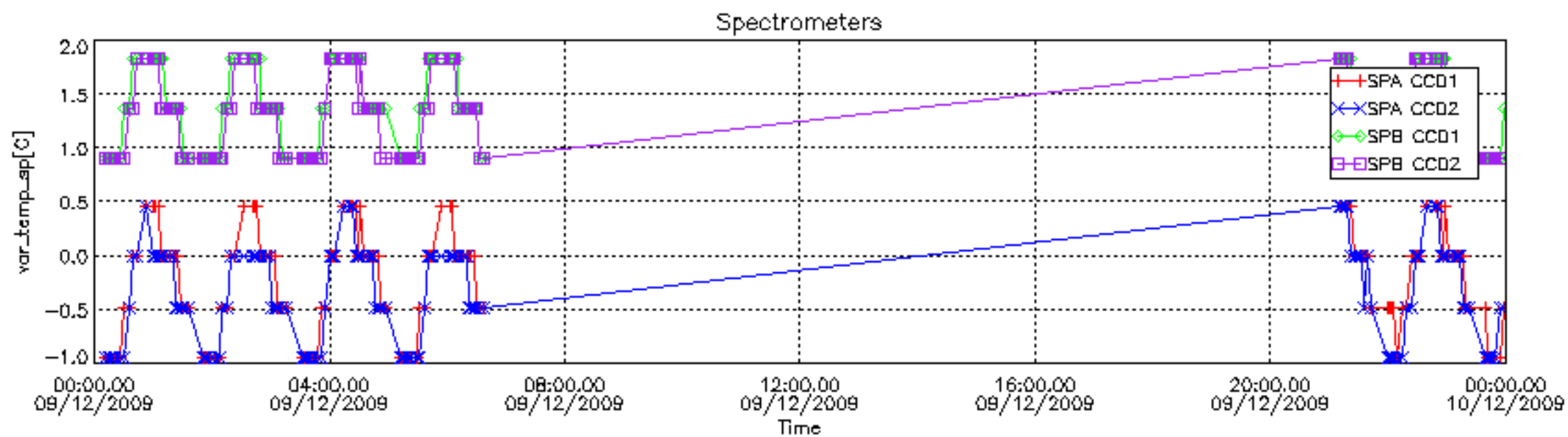
### 8. Auxiliary Data Files used for the production reported in section 2.4

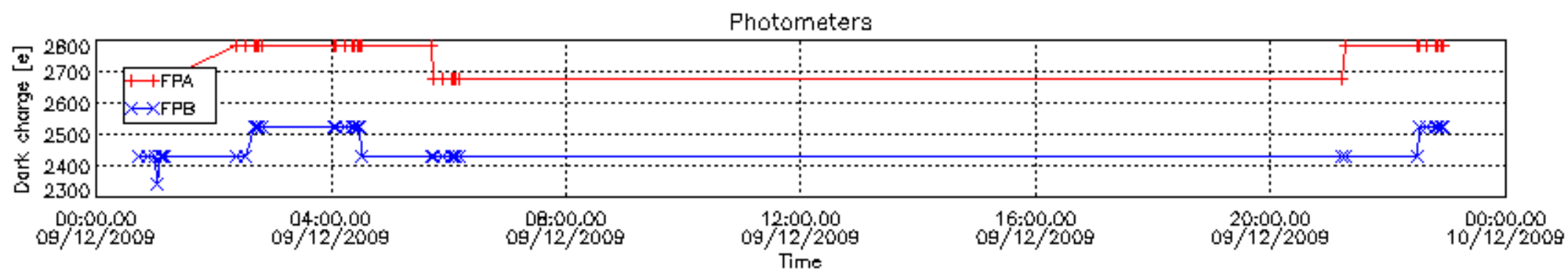
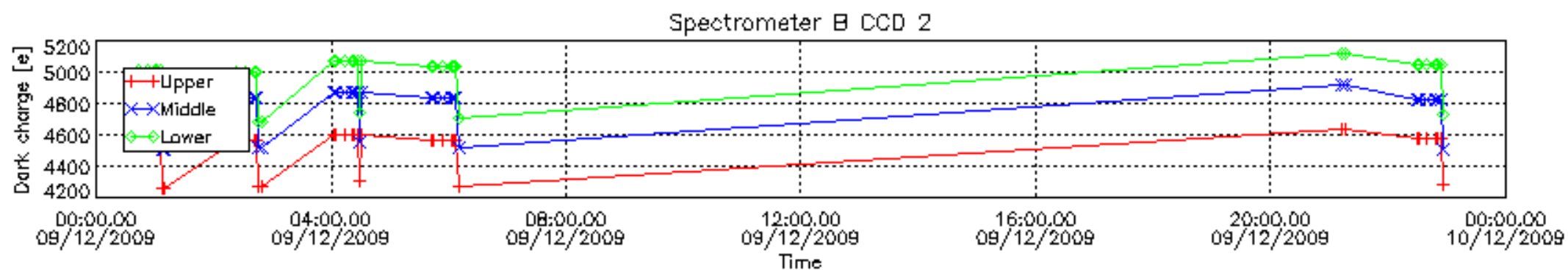
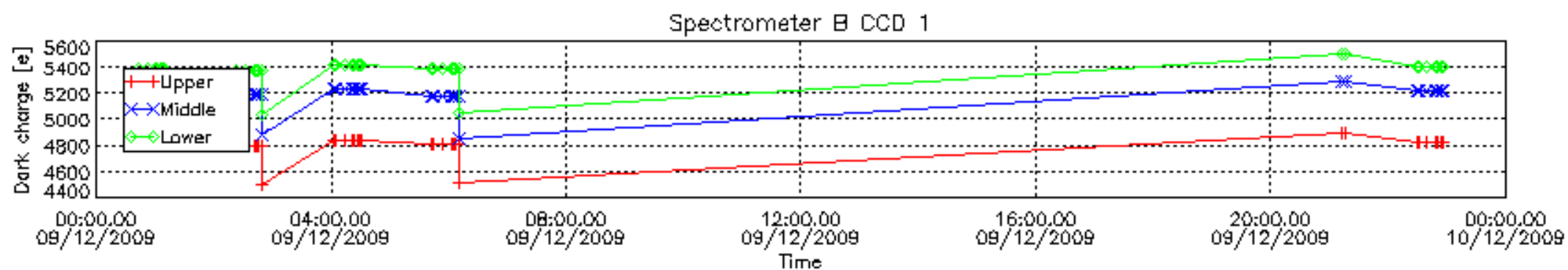
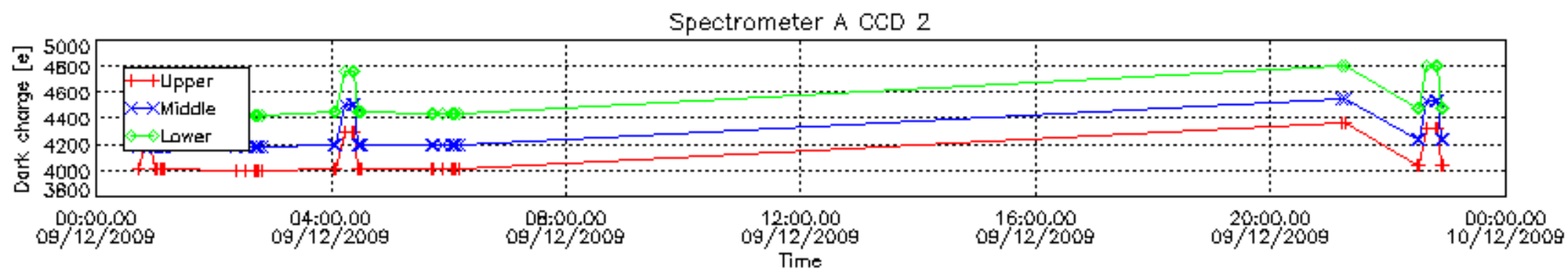
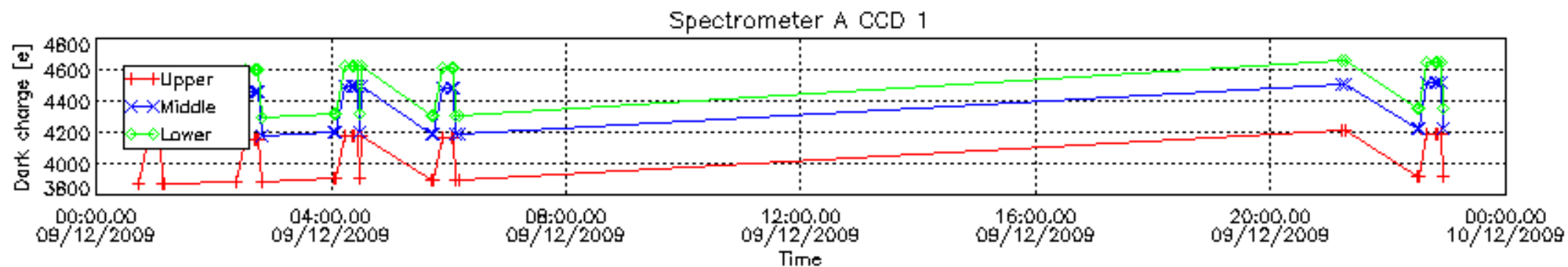
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	09-DEC-2009 00:11:17
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091207_160509_20091205_000000_20500101_000000	1	09-DEC-2009 00:11:17
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	09-DEC-2009 00:11:17
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	09-DEC-2009 00:11:17
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	09-DEC-2009 00:11:17
ECMWF_FILE	AUX_ECF_AXNECM20091208_064110_20091208_210000_20091209_090000	1	09-DEC-2009 00:11:17
ECMWF_FILE	AUX_ECF_AXNECM20091208_182113_20091209_030000_20091209_150000	48	09-DEC-2009 03:32:28
ECMWF_FILE	AUX_ECA_AXNECM20091209_062111_20091208_210000_20091209_090000	73	09-DEC-2009 05:13:03
ECMWF_FILE	AUX_ECF_AXNECM20091209_064112_20091209_210000_20091210_090000	98	09-DEC-2009 21:10:00
OPTIONAL_ECMWF_FILE	MISSING	1	09-DEC-2009 00:11:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091208_225549_000057382085_00015_40650_9320.N1	1	09-DEC-2009 00:11:17
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091209_003646_000054192085_00016_40651_9321.N1	8	09-DEC-2009 00:39:30
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091209_021224_000041442085_00017_40652_9322.N1	31	09-DEC-2009 02:15:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091209_032647_000057382085_00018_40653_9323.N1	48	09-DEC-2009 03:32:28
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091209_050744_000057382085_00019_40654_9324.N1	73	09-DEC-2009 05:13:03
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091209_210925_000041442085_00029_40664_9325.N1	98	09-DEC-2009 21:10:00
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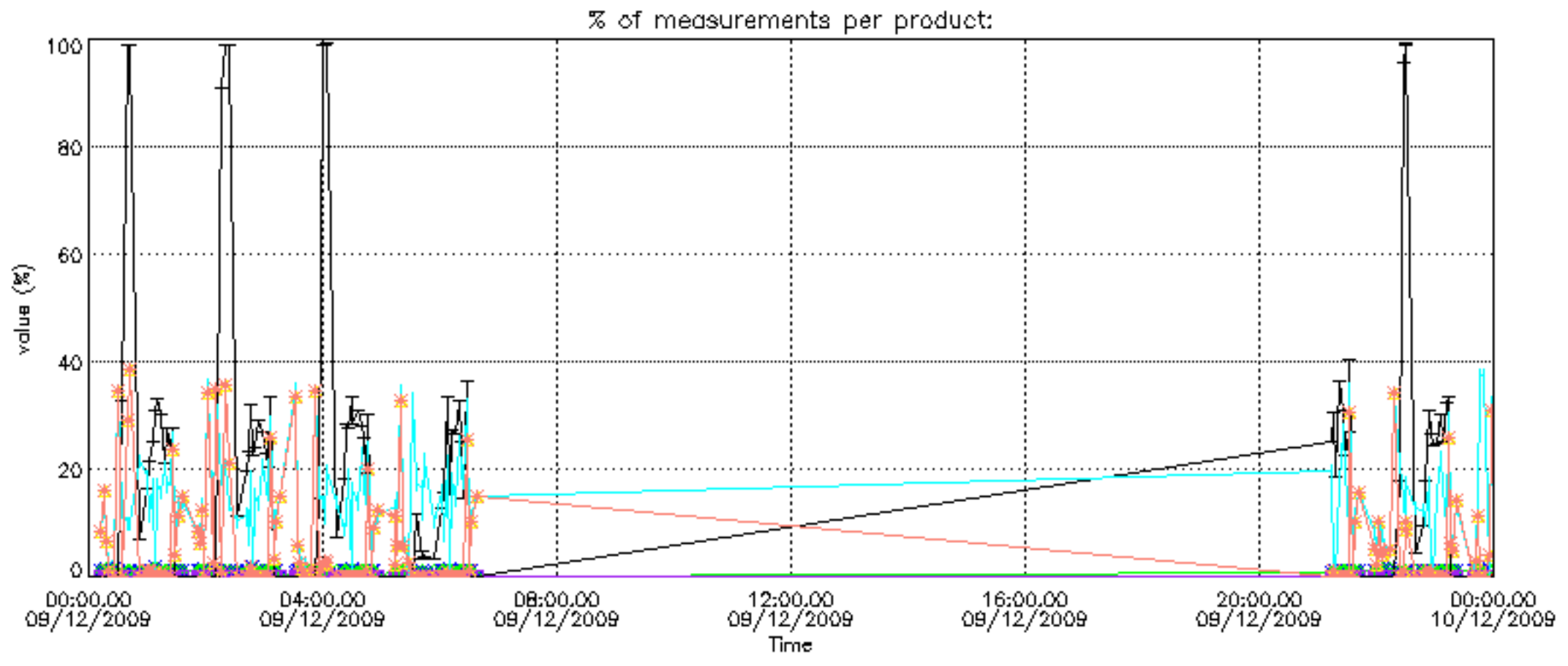




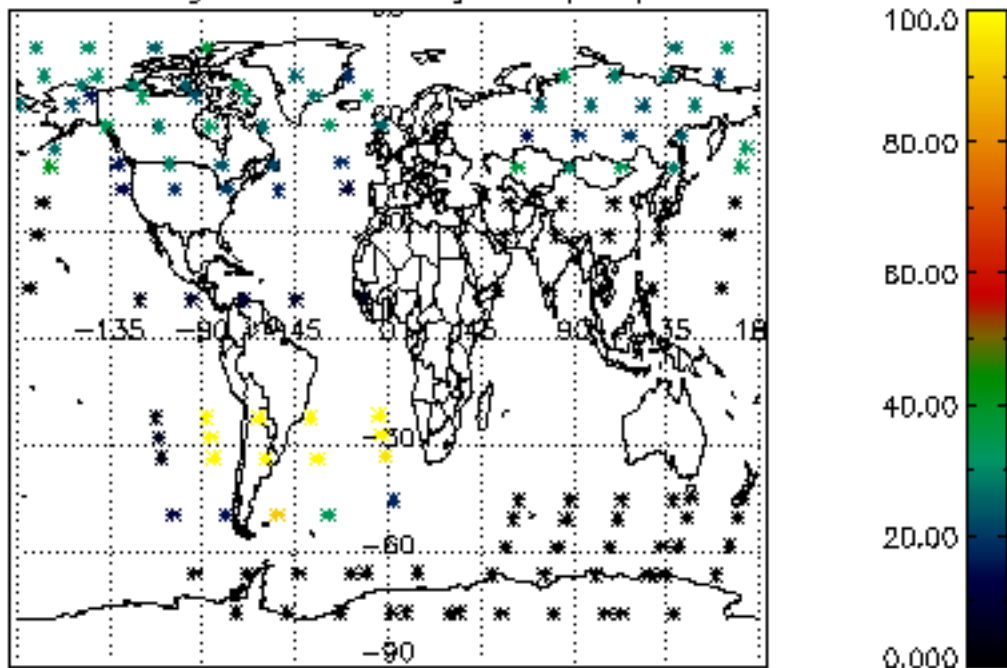




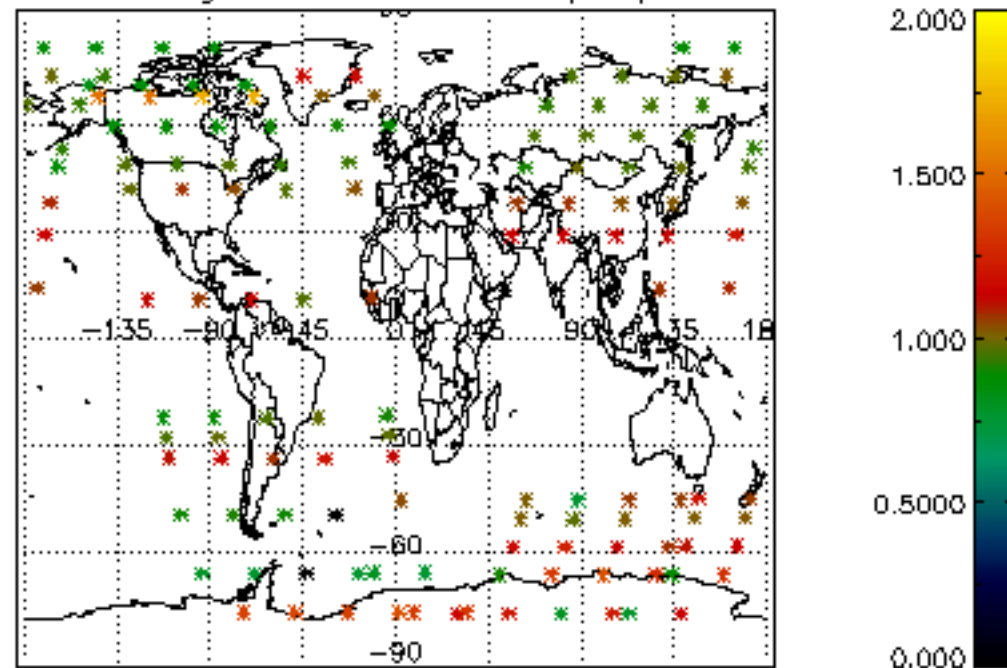




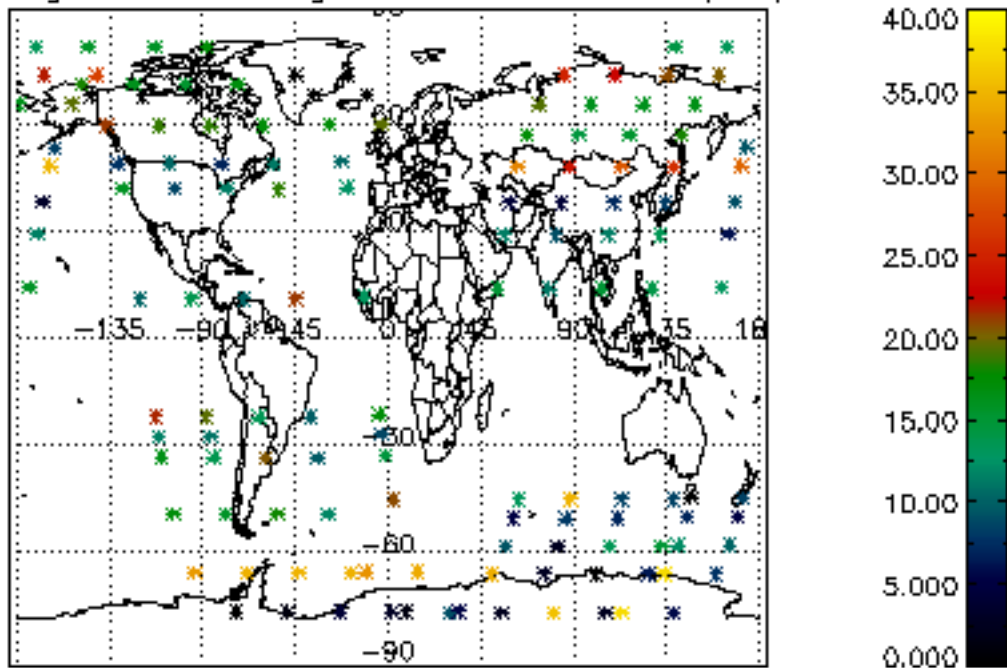
Percentage of cosmic ray hits per profile



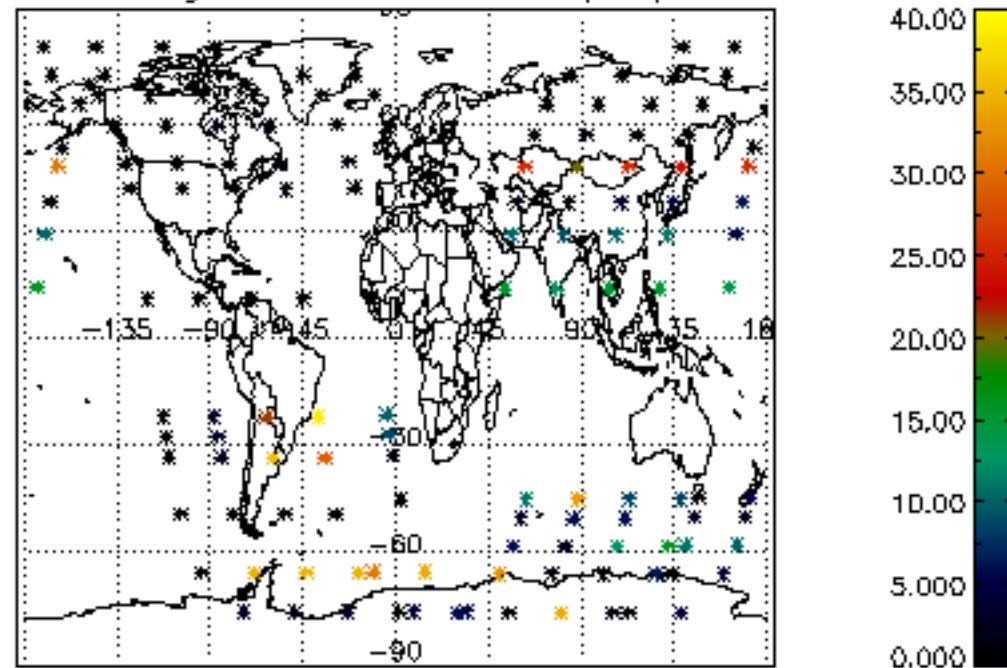
Percentage of datation errors per profile



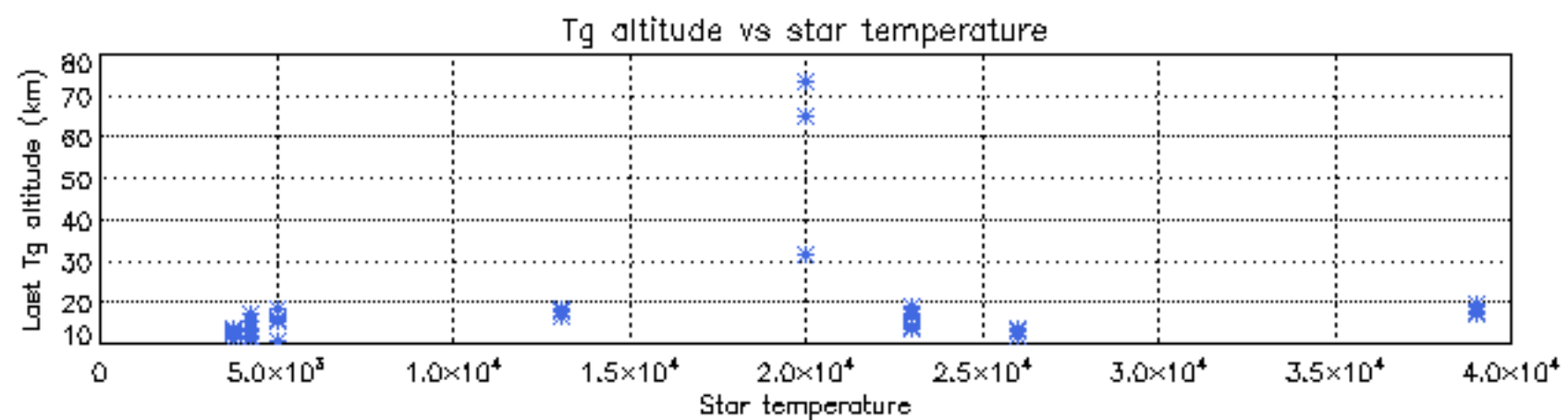
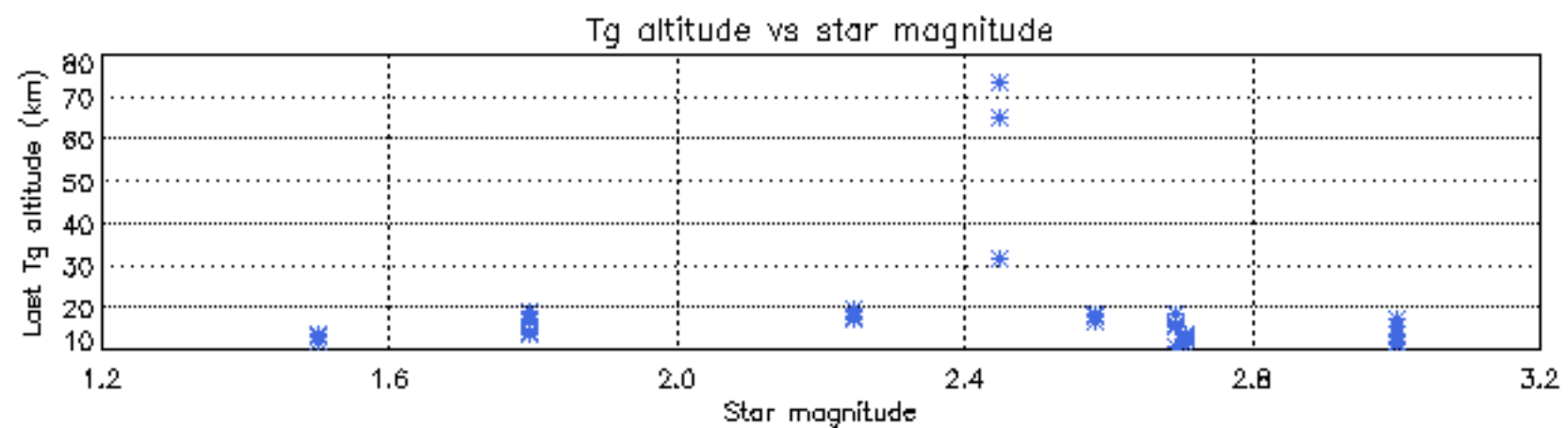
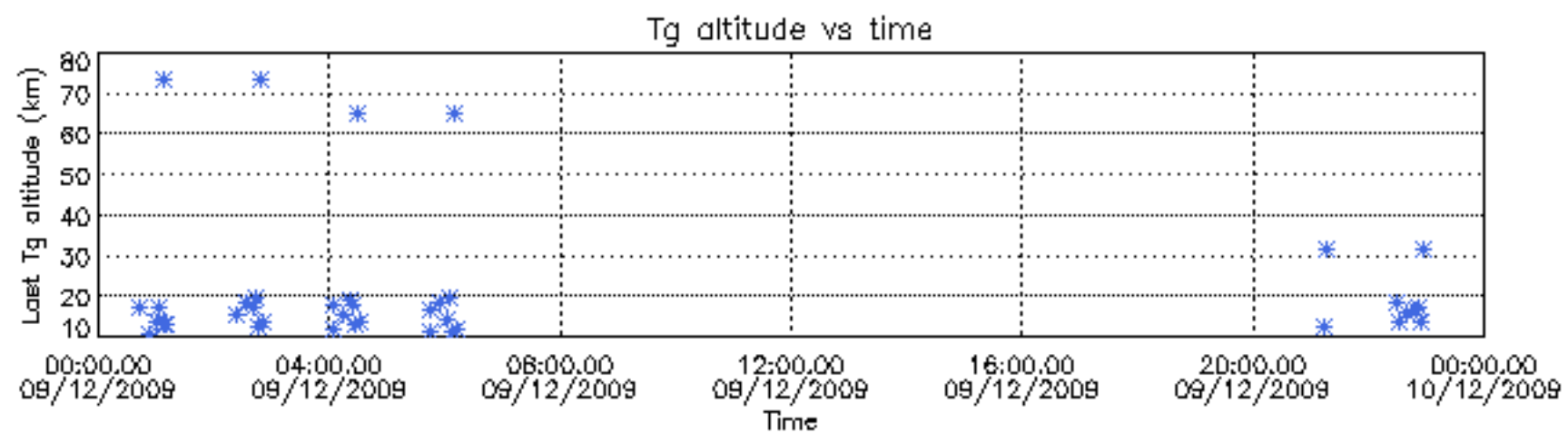
Percentage of star falling outside central band per profile



Percentage of saturation errors per profile

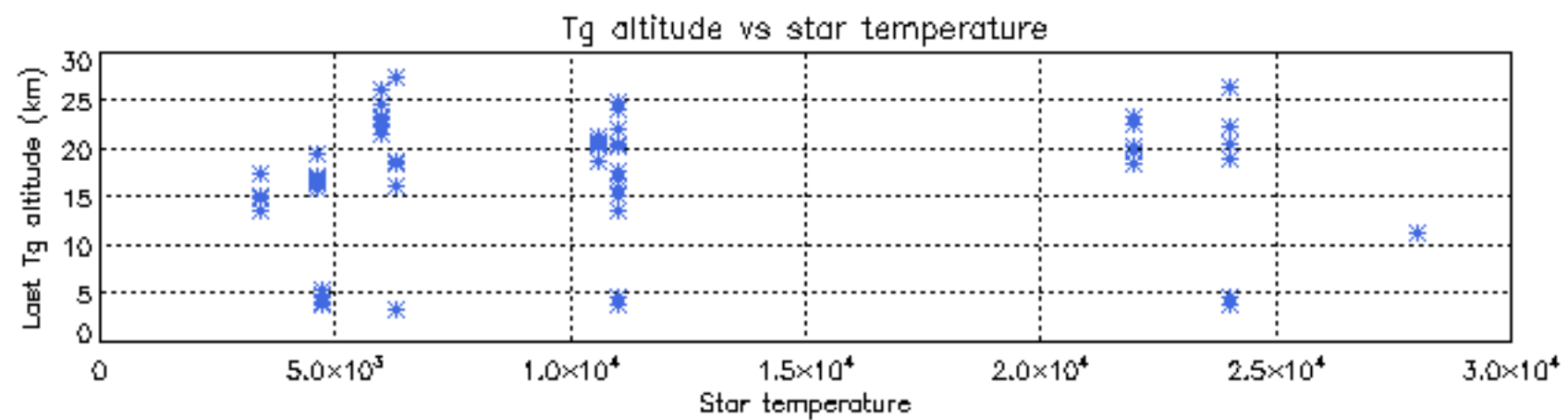
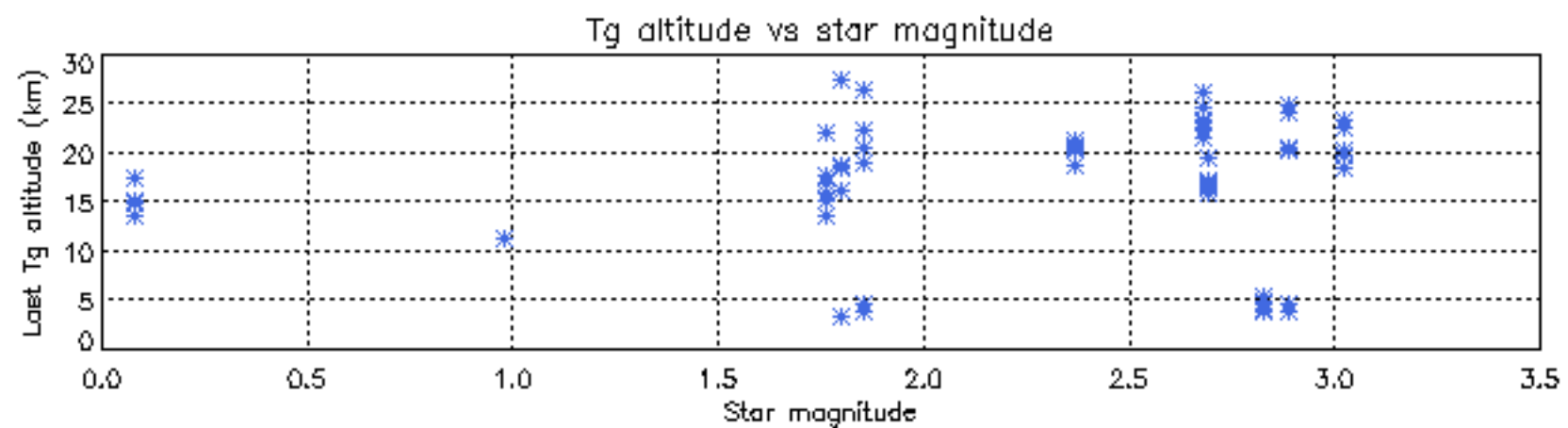
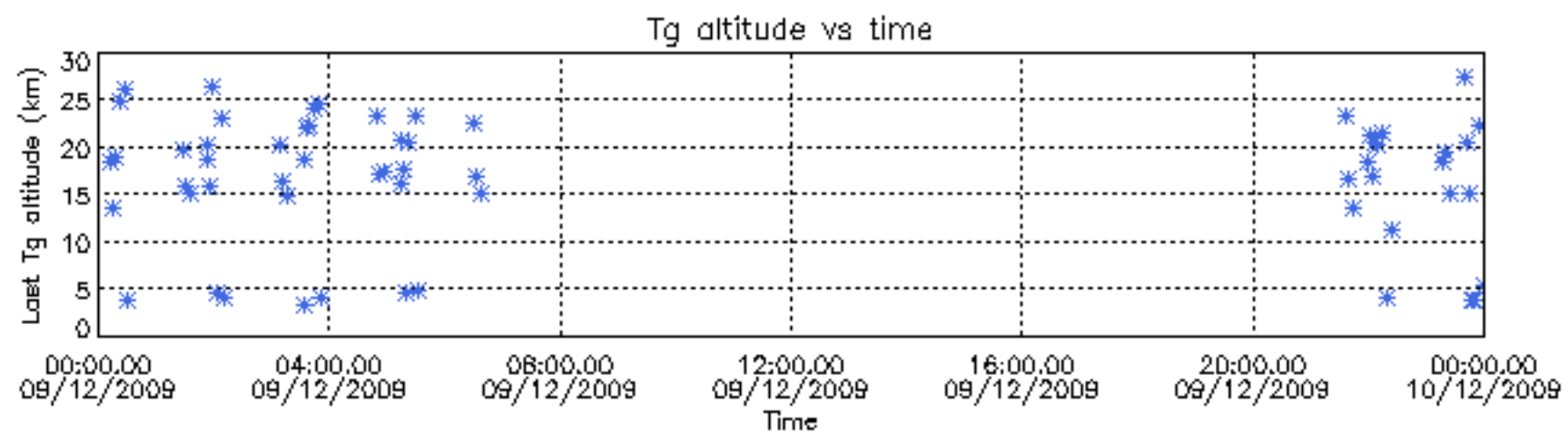


Tangent altitude at which the star is lost

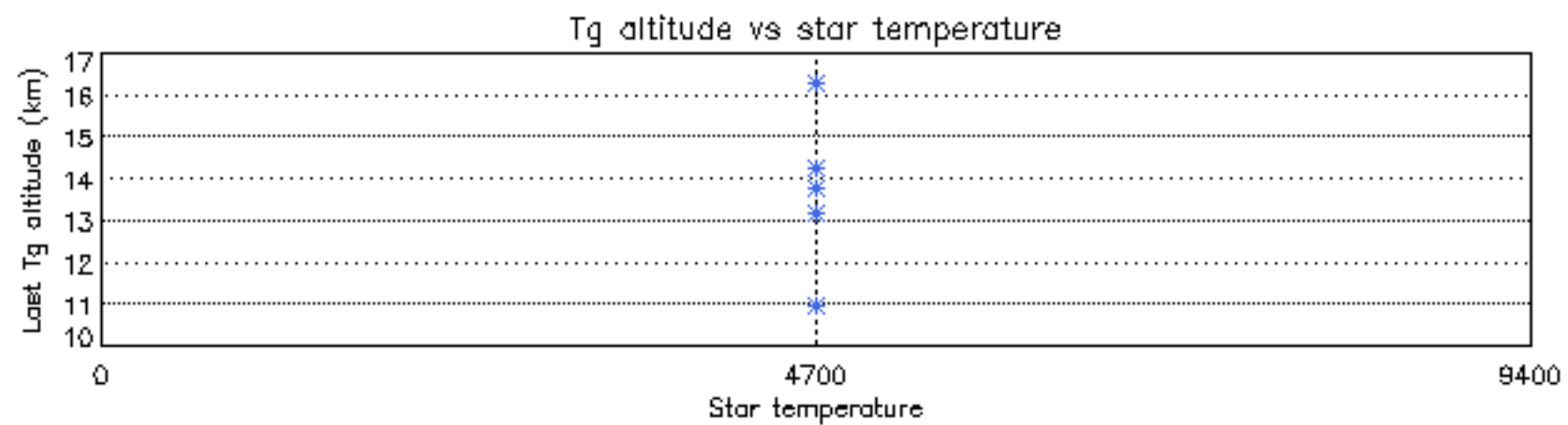
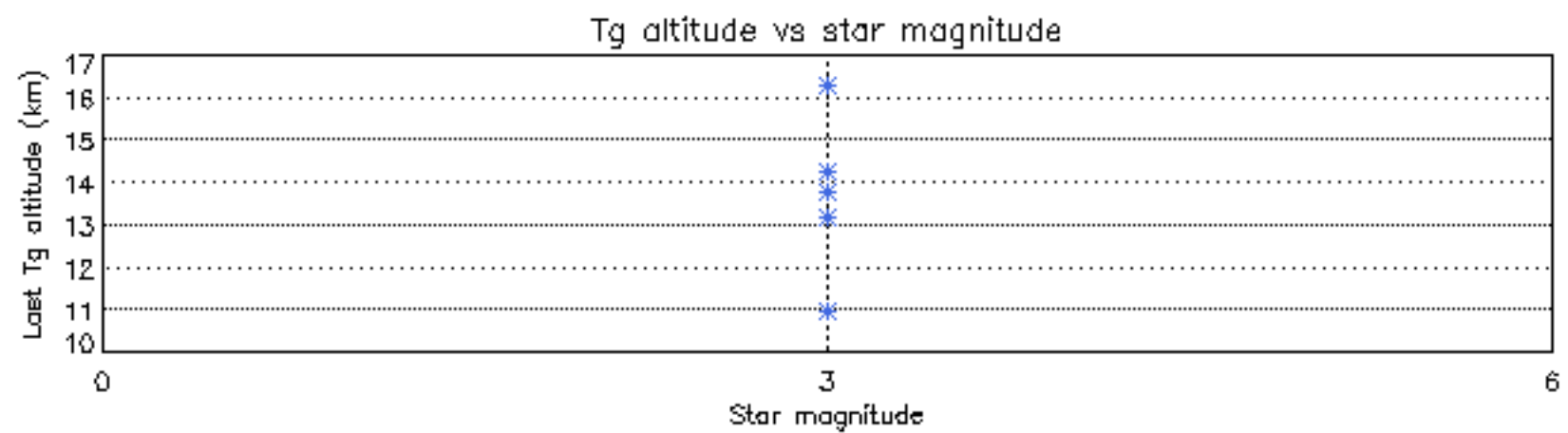
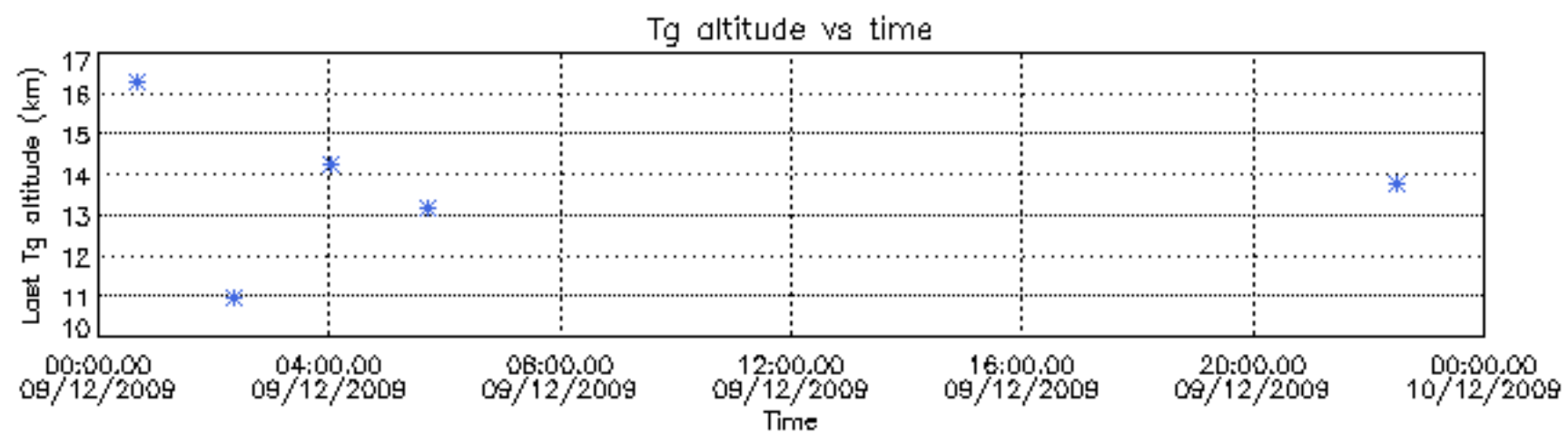


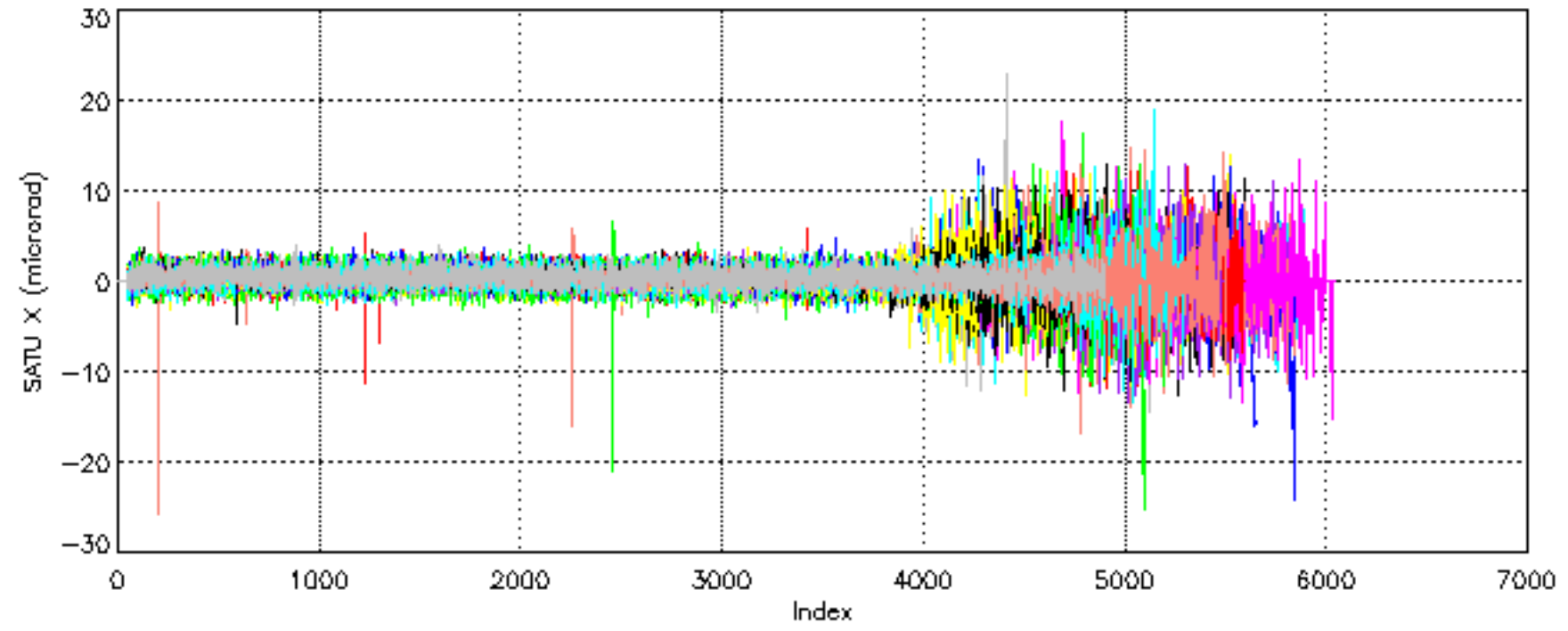


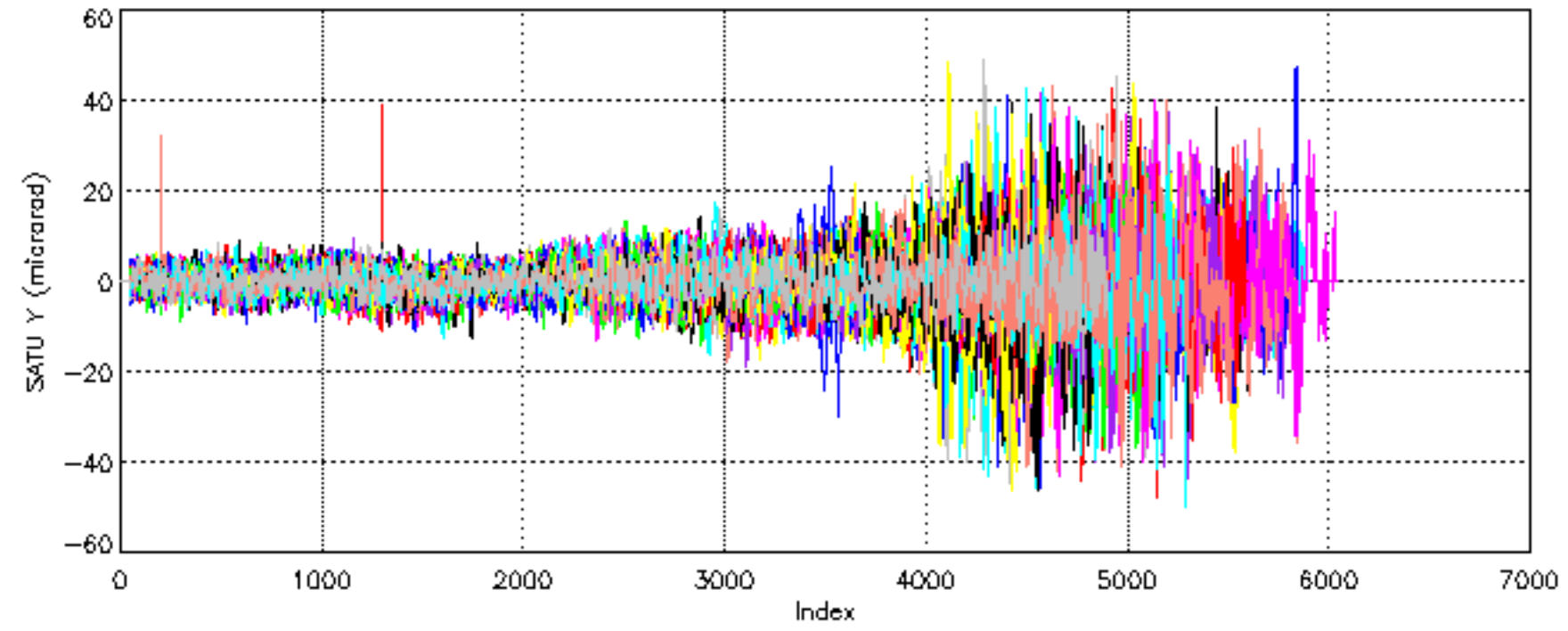
Tangent altitude at which the star is lost



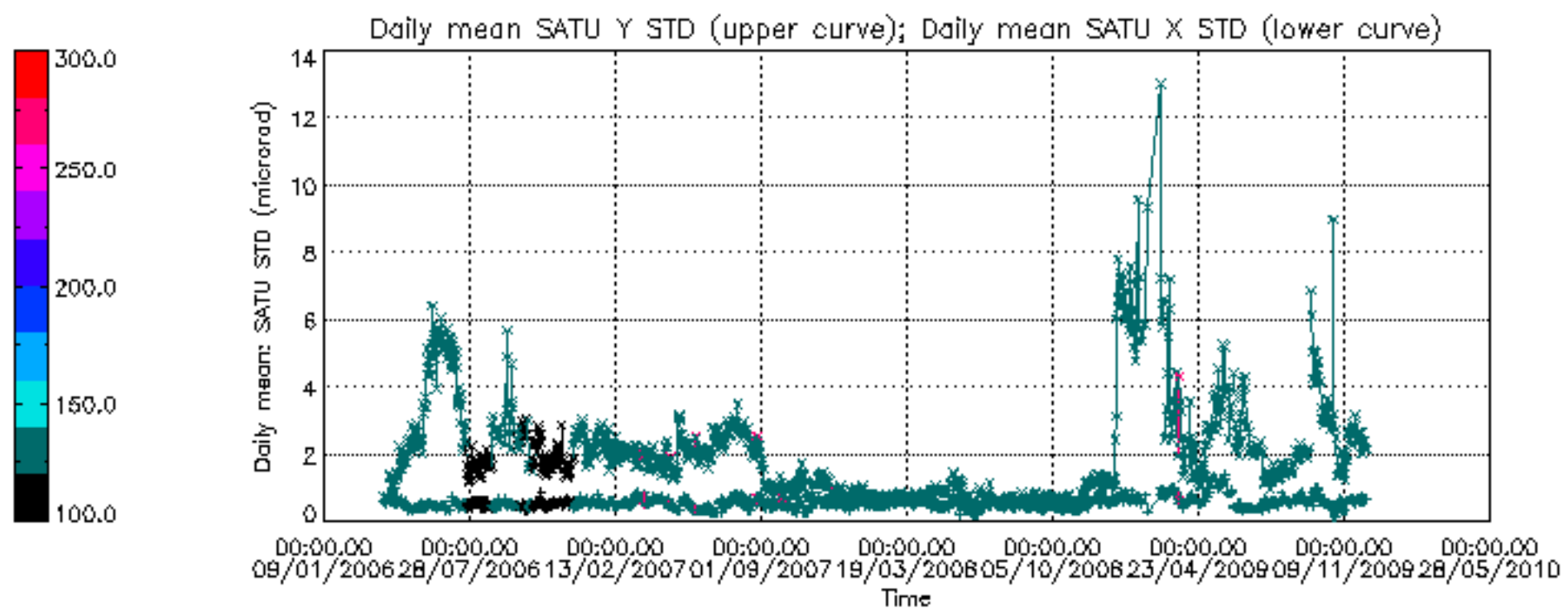
Tangent altitude at which the star is lost











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4; 2052.0; 08-DEC-2009 11:58:20; Dark ; 51.5; 27; 24Gam Ori ; 1.64; 26000;occ; 103; 0;40644
5; 2203.9; 08-DEC-2009 12:00:52; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40644
6; 2380.8; 08-DEC-2009 12:03:49; Bright; 48.5; 176; 23Zet Tau ; 3.02; 22000;occ; 97; 0;40644
7; 2531.4; 08-DEC-2009 12:06:20; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;40644
8; 2786.6; 08-DEC-2009 12:10:35; Bright; 50.0; 6; 13Alp Aur ; 0.08; 3400;occ; 100; 0;40644
9; 3780.2; 08-DEC-2009 12:27:09; Bright; 46.5; 36; 50Alp UMA ; 1.80; 6300;occ; 93; 0;40644
10; 4002.6; 08-DEC-2009 12:30:51; Bright; 42.0; 32; 77Eps UMA ; 1.76; 11000;occ; 84; 0;40644
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13; 4699.8; 08-DEC-2009 12:42:28; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40644
14; 4906.6; 08-DEC-2009 12:45:55; Bright; 44.5; 138; 47Eps Vir ; 2.83; 4700;occ; 89; 0;40644
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17; 5655.3; 08-DEC-2009 12:58:24; Dark ; 54.5; 171; 2Eps Crv ; 3.00; 4250;occ; 109; 0;40644
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22; 7037.3; 08-DEC-2009 13:21:26; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40644
23; 7248.7; 08-DEC-2009 13:24:57; Dark ; 57.5; 23; 21Eps CMA ; 1.50; 26000;occ; 115; 0;40644
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3; 1901.6; 08-DEC-2009 13:36:26; Dark ; 54.5; 30; 46Eps Ori ; 1.69; 30000;occ; 109; 0;40645
4; 2051.9; 08-DEC-2009 13:38:56; Dark ; 53.0; 27; 24Gam Ori ; 1.64; 26000;occ; 106; 0;40645
5; 2203.9; 08-DEC-2009 13:41:28; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;40645
6; 2380.3; 08-DEC-2009 13:44:25; Bright; 48.0; 176; 23Zet Tau ; 3.02; 22000;occ; 96; 0;40645
7; 2531.0; 08-DEC-2009 13:46:55; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;40645
8; 2786.1; 08-DEC-2009 13:51:10; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;40645
9; 3779.8; 08-DEC-2009 14:07:44; Bright; 45.5; 36; 50Alp UMA ; 1.80; 6300;occ; 91; 0;40645
10; 4002.3; 08-DEC-2009 14:11:27; Bright; 38.0; 32; 77Eps UMA ; 1.76; 11000;occ; 76; 0;40645
11; 4141.1; 08-DEC-2009 14:13:45; Bright; 47.0; 39; 85Eta UMA ; 1.85; 24000;occ; 94; 0;40645
12; 4353.4; 08-DEC-2009 14:17:18; Bright; 44.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 89; 0;40645
13; 4700.4; 08-DEC-2009 14:23:05; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;40645
14; 4907.5; 08-DEC-2009 14:26:32; Bright; 65.0; 138; 47Eps Vir ; 2.83; 4700;occ; 130; 0;40645

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 23; 7249.2; 08-DEC-2009 15:05:34; Dark ; 58.0; 23; 21Eps CMA ; 1.50; 26000;occ; 116; 0;40645

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 11; 4141.1; 08-DEC-2009 15:54:21; Bright; 52.5; 39; 85Eta UMa ; 1.85; 24000;occ; 105; 0;40646  
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 23; 7039.0; 08-DEC-2009 16:42:39; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;40646  
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 25; 7204.3; 10-DEC-2009 14:01:35; Dark ; 59.0; 88; 31Eta CMA ; 2.45; 20000;occ; 118; 0;40673  
 26; 7306.3; 10-DEC-2009 14:03:17; Dark ; 62.0; 37; 25Del CMA ; 1.83; 5900;occ; 124; 0;40673  
 27; 7561.9; 10-DEC-2009 14:07:32; Dark ; 40.0; 47; 2Bet CMA ; 1.98; 28000;occ; 80; 0;40673

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 2; 1748.1; 10-DEC-2009 14:11:14; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;40674  
 3; 1896.1; 10-DEC-2009 14:13:42; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;40674  
 4; 2043.6; 10-DEC-2009 14:16:10; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40674  
 5; 2198.9; 10-DEC-2009 14:18:45; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40674  
 6; 2363.0; 10-DEC-2009 14:21:29; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40674  
 7; 2483.6; 10-DEC-2009 14:23:30; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40674  
 8; 2772.5; 10-DEC-2009 14:28:19; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;40674  
 9; 3767.1; 10-DEC-2009 14:44:53; Bright; 50.0; 36; 50Alp UMA ; 1.80; 6300;occ; 100; 0;40674  
 10; 3857.7; 10-DEC-2009 14:46:24; Bright; 52.0; 82; 48Bet UMA ; 2.37; 10600;occ; 104; 0;40674  
 11; 3997.6; 10-DEC-2009 14:48:44; Bright; 38.5; 32; 77Eps UMA ; 1.76; 11000;occ; 77; 0;40674  
 12; 4140.8; 10-DEC-2009 14:51:07; Bright; 35.5; 39; 85Eta UMA ; 1.85; 24000;occ; 71; 0;40674  
 13; 4354.1; 10-DEC-2009 14:54:40; Bright; 56.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 113; 0;40674  
 14; 4708.1; 10-DEC-2009 15:00:34; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40674  
 15; 4922.3; 10-DEC-2009 15:04:09; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40674  
 16; 5275.9; 10-DEC-2009 15:10:02; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40674  
 17; 5483.9; 10-DEC-2009 15:13:30; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;40674  
 18; 5591.5; 10-DEC-2009 15:15:18; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40674  
 19; 5687.9; 10-DEC-2009 15:16:54; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;40674  
 20; 6237.7; 10-DEC-2009 15:26:04; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40674  
 21; 6555.8; 10-DEC-2009 15:31:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40674  
 22; 6755.8; 10-DEC-2009 15:34:42; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40674

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26; 7307.0; 10-DEC-2009 15:43:53; Dark ; 61.5; 37; 25Del CMa ; 1.83; 5900;occ; 123; 0;40674
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 4; 1895.8; 10-DEC-2009 15:54:18; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;40675
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 9; 2771.9; 10-DEC-2009 16:08:54; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40675
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11; 3857.1; 10-DEC-2009 16:26:59; Bright; 52.0; 82; 48Bet UMa ; 2.37; 10600;occ; 104; 0;40675
12; 3997.6; 10-DEC-2009 16:29:20; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40675
13; 4140.4; 10-DEC-2009 16:31:43; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;40675
14; 4354.2; 10-DEC-2009 16:35:16; Bright; 64.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 128; 0;40675
15; 4708.2; 10-DEC-2009 16:41:10; Bright; 38.0; 111; 8Eta Boo ; 2.68; 6000;occ; 76; 0;40675
16; 4922.8; 10-DEC-2009 16:44:45; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40675
17; 5276.4; 10-DEC-2009 16:50:39; Dark ; 59.0; 15; 67Alp Vir ; 0.98; 28000;occ; 118; 0;40675
18; 5484.8; 10-DEC-2009 16:54:07; Dark ; 42.0; 169; 46Gam Hya ; 2.99; 4700;occ; 84; 0;40675
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20; 5689.0; 10-DEC-2009 16:57:31; Dark ; 57.0; 171; 2Eps Crv ; 3.00; 4250;occ; 114; 0;40675
21; 6238.8; 10-DEC-2009 17:06:41; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40675
22; 6556.6; 10-DEC-2009 17:11:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40675
23; 6756.5; 10-DEC-2009 17:15:19; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40675
24; 6879.0; 10-DEC-2009 17:17:21; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40675
25; 7058.3; 10-DEC-2009 17:20:21; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40675
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 6; 2042.9; 10-DEC-2009 17:37:21; Dark ; 49.0; 27; 24Gam Ori ; 1.64; 26000;occ; 98; 0;40676
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11; 3765.9; 10-DEC-2009 18:06:04; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40676
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13; 3997.4; 10-DEC-2009 18:09:56; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40676
14; 4140.6; 10-DEC-2009 18:12:19; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;40676
15; 4353.9; 10-DEC-2009 18:15:52; Bright; 39.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 79; 0;40676
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17; 4923.3; 10-DEC-2009 18:25:22; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40676
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19; 5485.0; 10-DEC-2009 18:34:43; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40676
20; 5593.8; 10-DEC-2009 18:36:32; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;40676
21; 5690.1; 10-DEC-2009 18:38:08; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40676
22; 6239.5; 10-DEC-2009 18:47:18; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40676
23; 6557.4; 10-DEC-2009 18:52:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40676
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 2; 1170.4; 10-DEC-2009 19:03:25; Dark ; 62.0; 88; 31Eta CMA ; 2.45; 20000;occ; 124; 0;40677
 3; 1271.9; 10-DEC-2009 19:05:06; Dark ; 66.0; 37; 25Del CMA ; 1.83; 5900;occ; 132; 0;40677
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 19; 5277.5; 10-DEC-2009 20:11:52; Dark ; 47.5; 15; 67Alp Vir ; 0.98; 28000;occ; 95; 0;40677  
 20; 5485.8; 10-DEC-2009 20:15:20; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40677  
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 23; 6240.2; 10-DEC-2009 20:27:54; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40677  
 24; 6558.1; 10-DEC-2009 20:33:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40677  
 25; 6758.0; 10-DEC-2009 20:36:32; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40677  
 26; 6880.6; 10-DEC-2009 20:38:35; Dark ; 54.0; 70; Zet Pup ; 2.25; 39000;occ; 108; 0;40677  
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 13; 2591.6; 11-DEC-2009 00:28:54; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40680  
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 5; 207.0; 11-DEC-2009 01:29:45; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;40681  
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 7; 724.4; 11-DEC-2009 01:38:22; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40681  
 8; 875.4; 11-DEC-2009 01:40:53; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;40681  
 9; 1025.5; 11-DEC-2009 01:43:23; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40681  
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 11; 1555.7; 11-DEC-2009 01:52:14; Dark ; 47.0; 101; 11Alp Lep ; 2.58; 7000;occ; 94; 0;40681  
 12; 1748.1; 11-DEC-2009 01:55:26; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;40681  
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 26; 7269.3; 11-DEC-2009 08:29:15; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40684  
 27; 7563.5; 11-DEC-2009 08:34:09; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;40684  
 28; 7784.0; 11-DEC-2009 08:37:50; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40684

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 2; 1894.1; 11-DEC-2009 08:40:16; Dark ; 49.0; 30; 46Eps Ori ; 1.69; 30000;occ; 98; 0;40685  
 3; 2040.4; 11-DEC-2009 08:42:42; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40685  
 4; 2197.1; 11-DEC-2009 08:45:19; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40685  
 5; 2451.3; 11-DEC-2009 08:49:33; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40685  
 6; 2591.4; 11-DEC-2009 08:51:53; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40685  
 7; 2767.4; 11-DEC-2009 08:54:49; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;40685  
 8; 3761.9; 11-DEC-2009 09:11:24; Bright; 52.0; 36; 50Alp UMa ; 1.80; 6300;occ; 104; 0;40685  
 9; 3995.8; 11-DEC-2009 09:15:18; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40685  
 10; 4140.1; 11-DEC-2009 09:17:42; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40685  
 11; 4331.5; 11-DEC-2009 09:20:53; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40685  
 12; 4710.8; 11-DEC-2009 09:27:13; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40685  
 13; 4928.1; 11-DEC-2009 09:30:50; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40685  
 14; 5282.3; 11-DEC-2009 09:36:44; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;40685  
 15; 5491.0; 11-DEC-2009 09:40:13; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40685  
 16; 5604.0; 11-DEC-2009 09:42:06; Dark ; 55.0; 100; 4Gam Crv ; 2.58; 13100;occ; 110; 0;40685  
 17; 5700.3; 11-DEC-2009 09:43:42; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;40685  
 18; 5937.3; 11-DEC-2009 09:47:39; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40685  
 19; 6030.3; 11-DEC-2009 09:49:12; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;40685  
 20; 6247.2; 11-DEC-2009 09:52:49; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40685  
 21; 6491.5; 11-DEC-2009 09:56:53; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40685  
 22; 6564.3; 11-DEC-2009 09:58:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40685  
 23; 6764.1; 11-DEC-2009 10:01:26; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40685  
 24; 6913.6; 11-DEC-2009 10:03:55; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;40685  
 25; 7064.5; 11-DEC-2009 10:06:26; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40685  
 26; 7269.8; 11-DEC-2009 10:09:52; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40685  
 27; 7563.8; 11-DEC-2009 10:14:46; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40685

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1; 1553.9; 11-DEC-2009 10:15:12; Dark ; 35.0; 47; 2Bet CMa ; 1.98; 28000;occ; 70; 52;40686



2; 1748.0; 11-DEC-2009 10:18:26; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40686  
3; 1893.9; 11-DEC-2009 10:20:52; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40686  
4; 2040.2; 11-DEC-2009 10:23:18; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40686  
5; 2196.9; 11-DEC-2009 10:25:55; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40686  
6; 2355.8; 11-DEC-2009 10:28:33; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;40686  
7; 2477.3; 11-DEC-2009 10:30:35; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40686  
8; 2591.4; 11-DEC-2009 10:32:29; Bright; 53.0; 149; 45Eps Per ; 2.89; 30000;occ; 106; 0;40686  
9; 2766.9; 11-DEC-2009 10:35:25; Bright; 47.5; 6; 13Alp Aur ; 0.08; 3400;occ; 95; 0;40686  
10; 3761.5; 11-DEC-2009 10:51:59; Bright; 43.5; 36; 50Alp UMa ; 1.80; 6300;occ; 87; 0;40686  
11; 3995.5; 11-DEC-2009 10:55:53; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40686  
12; 4140.3; 11-DEC-2009 10:58:18; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40686  
13; 4331.5; 11-DEC-2009 11:01:29; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40686  
14; 4711.2; 11-DEC-2009 11:07:49; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40686  
15; 4928.6; 11-DEC-2009 11:11:26; Bright; 50.5; 138; 47Eps Vir ; 2.83; 4700;occ; 101; 0;40686  
16; 5283.0; 11-DEC-2009 11:17:21; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;40686  
17; 5491.5; 11-DEC-2009 11:20:49; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40686  
18; 5605.0; 11-DEC-2009 11:22:43; Dark ; 56.0; 100; 4Gam Crv ; 2.58; 13100;occ; 112; 0;40686  
19; 5701.3; 11-DEC-2009 11:24:19; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40686  
20; 5937.8; 11-DEC-2009 11:28:15; Dark ; 38.5; 64; Gam Cen ; 2.20; 10600;occ; 77; 0;40686  
21; 6030.9; 11-DEC-2009 11:29:49; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40686  
22; 6248.0; 11-DEC-2009 11:33:26; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40686  
23; 6492.1; 11-DEC-2009 11:37:30; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40686  
24; 6565.1; 11-DEC-2009 11:38:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40686  
25; 6764.9; 11-DEC-2009 11:42:03; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40686  
26; 6913.8; 11-DEC-2009 11:44:32; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;40686  
27; 7065.4; 11-DEC-2009 11:47:03; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40686  
28; 7270.1; 11-DEC-2009 11:50:28; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;40686  
29; 7563.9; 11-DEC-2009 11:55:22; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40686

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3; 1893.6; 11-DEC-2009 12:01:27; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;40687  
4; 2040.0; 11-DEC-2009 12:03:54; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40687  
5; 2196.8; 11-DEC-2009 12:06:30; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40687  
6; 2355.6; 11-DEC-2009 12:09:09; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40687  
7; 2476.9; 11-DEC-2009 12:11:10; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40687  
8; 2591.1; 11-DEC-2009 12:13:05; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40687  
9; 2766.6; 11-DEC-2009 12:16:00; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;40687  
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11; 3995.2; 11-DEC-2009 12:36:29; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40687  
12; 4140.1; 11-DEC-2009 12:38:54; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;40687  
13; 4331.7; 11-DEC-2009 12:42:05; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40687  
14; 4711.5; 11-DEC-2009 12:48:25; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40687  
15; 4929.1; 11-DEC-2009 12:52:03; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40687  
16; 5283.6; 11-DEC-2009 12:57:57; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;40687  
17; 5492.2; 11-DEC-2009 13:01:26; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40687  
18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687  
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687  
20; 5938.2; 11-DEC-2009 13:08:52; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40687  
21; 6031.6; 11-DEC-2009 13:10:25; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40687  
22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687  
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687  
24; 6565.9; 11-DEC-2009 13:19:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40687  
25; 6765.8; 11-DEC-2009 13:22:39; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40687  
26; 6914.5; 11-DEC-2009 13:25:08; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;40687  
27; 7066.0; 11-DEC-2009 13:27:40; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40687  
28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687  
29; 7564.3; 11-DEC-2009 13:35:58; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;40687

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3; 1893.6; 11-DEC-2009 13:42:03; Dark ; 54.0; 30; 46Eps Ori ; 1.69; 30000;occ; 108; 0;40688  
4; 2039.8; 11-DEC-2009 13:44:29; Dark ; 48.5; 27; 24Gam Ori ; 1.64; 26000;occ; 97; 0;40688  
5; 2196.7; 11-DEC-2009 13:47:06; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40688  
6; 2355.0; 11-DEC-2009 13:49:44; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40688  
7; 2476.3; 11-DEC-2009 13:51:46; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40688  
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9; 2766.3; 11-DEC-2009 13:56:36; Bright; 60.0; 6; 13Alp Aur ; 0.08; 3400;occ; 120; 0;40688

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11; 3995.1; 11-DEC-2009 14:17:05; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40688
12; 4140.3; 11-DEC-2009 14:19:30; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40688
13; 4332.0; 11-DEC-2009 14:22:41; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40688
14; 4711.8; 11-DEC-2009 14:29:01; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40688
15; 4929.8; 11-DEC-2009 14:32:39; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40688
16; 5230.2; 11-DEC-2009 14:37:40; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40688
17; 5492.8; 11-DEC-2009 14:42:02; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40688
18; 5607.5; 11-DEC-2009 14:43:57; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;40688
19; 5703.8; 11-DEC-2009 14:45:33; Dark ; 58.5; 171; 2Eps Crv ; 3.00; 4250;occ; 117; 0;40688
20; 5939.1; 11-DEC-2009 14:49:29; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40688
21; 6032.3; 11-DEC-2009 14:51:02; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;40688
22; 6249.9; 11-DEC-2009 14:54:39; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40688
23; 6493.4; 11-DEC-2009 14:58:43; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40688
24; 6566.7; 11-DEC-2009 14:59:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40688
25; 6766.5; 11-DEC-2009 15:03:16; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40688
26; 6915.0; 11-DEC-2009 15:05:44; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;40688
27; 7066.6; 11-DEC-2009 15:08:16; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40688
28; 7271.4; 11-DEC-2009 15:11:41; Dark ; 57.5; 23; 21Eps CMa ; 1.50; 26000;occ; 115; 0;40688
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 4; 2039.6; 11-DEC-2009 15:25:05; Dark ; 49.0; 27; 24Gam Ori ; 1.64; 26000;occ; 98; 0;40689
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 6; 2354.6; 11-DEC-2009 15:30:20; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40689
 7; 2475.9; 11-DEC-2009 15:32:21; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40689
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 9; 2765.9; 11-DEC-2009 15:37:11; Bright; 43.5; 6; 13Alp Aur ; 0.08; 3400;occ; 87; 0;40689
10; 3760.3; 11-DEC-2009 15:53:46; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;40689
11; 3995.0; 11-DEC-2009 15:57:40; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40689
12; 4140.4; 11-DEC-2009 16:00:06; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40689
13; 4332.3; 11-DEC-2009 16:03:18; Bright; 53.0; 180; 27Gam Boo ; 3.04; 8000;occ; 106; 0;40689
14; 4712.0; 11-DEC-2009 16:09:37; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;40689
15; 4930.8; 11-DEC-2009 16:13:16; Bright; 47.0; 138; 47Eps Vir ; 2.83; 4700;occ; 94; 0;40689
16; 5231.2; 11-DEC-2009 16:18:17; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40689
17; 5493.6; 11-DEC-2009 16:22:39; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40689
18; 5608.8; 11-DEC-2009 16:24:34; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40689
19; 5705.1; 11-DEC-2009 16:26:10; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40689
20; 5939.6; 11-DEC-2009 16:30:05; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40689
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22; 6250.9; 11-DEC-2009 16:35:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40689
23; 6494.1; 11-DEC-2009 16:39:19; Dark ; 45.0; 71; Iot Car ; 2.25; 7700;occ; 90; 0;40689
24; 6567.6; 11-DEC-2009 16:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40689
25; 6767.4; 11-DEC-2009 16:43:53; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40689
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27; 7067.3; 11-DEC-2009 16:48:53; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40689
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 5; 2039.4; 11-DEC-2009 17:05:41; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40690
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 7; 2354.0; 11-DEC-2009 17:10:55; Bright; 48.0; 176; 23Zet Tau ; 3.02; 22000;occ; 96; 0;40690
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17; 5232.4; 11-DEC-2009 17:58:54; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40690
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 23; 6251.8; 11-DEC-2009 18:15:53; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40690  
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 27; 6915.9; 11-DEC-2009 18:26:57; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40690  
 28; 7067.9; 11-DEC-2009 18:29:29; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40690

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 13; 3994.7; 11-DEC-2009 19:18:52; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40691  
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 16; 4712.6; 11-DEC-2009 19:30:50; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40691  
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 18; 5233.2; 11-DEC-2009 19:39:31; Dark ; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;40691  
 19; 5494.8; 11-DEC-2009 19:43:52; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40691  
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 23; 6034.2; 11-DEC-2009 19:52:52; Dark ; 43.0; 99; Del Cen ; 2.58; 26000;occ; 86; 0;40691  
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 28; 6916.2; 11-DEC-2009 20:07:34; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;40691

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 12; 1238.4; 12-DEC-2009 01:15:19; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40695  
 13; 1529.2; 12-DEC-2009 01:20:10; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;40695  
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 15; 1892.4; 12-DEC-2009 01:26:13; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;40695  
 16; 2038.0; 12-DEC-2009 01:28:39; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40695  
 17; 2195.8; 12-DEC-2009 01:31:17; Dark ; 56.0; 13; 87Alp Tau ; 0.87; 3800;occ; 112; 0;40695  
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 19; 2451.0; 12-DEC-2009 01:35:32; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;40695  
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 21; 2763.2; 12-DEC-2009 01:40:44; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40695  
 22; 3757.3; 12-DEC-2009 01:57:18; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40695  
 23; 3993.8; 12-DEC-2009 02:01:15; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40695  
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 25; 4332.8; 12-DEC-2009 02:06:54; Bright; 34.0; 180; 27Gam Boo ; 3.04; 8000;occ; 68; 0;40695  
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 27; 4934.0; 12-DEC-2009 02:16:55; Bright; 67.5; 138; 47Eps Vir ; 2.83; 4700;occ; 135; 0;40695

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6; 220.0; 12-DEC-2009 02:38:57; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40696  
7; 461.8; 12-DEC-2009 02:42:59; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40696  
8; 536.3; 12-DEC-2009 02:44:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40696  
9; 735.8; 12-DEC-2009 02:47:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40696  
10; 881.8; 12-DEC-2009 02:49:59; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;40696  
11; 1034.9; 12-DEC-2009 02:52:32; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40696  
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13; 1529.5; 12-DEC-2009 03:00:46; Dark ; 53.5; 47; 2Bet CMA ; 1.98; 28000;occ; 107; 0;40696  
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23; 2037.7; 12-DEC-2009 04:49:51; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40697  
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13; 221.8; 12-DEC-2009 06:00:11; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40698  
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21; 1748.1; 12-DEC-2009 06:25:37; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;40698
22; 1891.8; 12-DEC-2009 06:28:01; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40698
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 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705  
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40707
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16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707
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22; 2694.5; 12-DEC-2009 21:46:47; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;40707
23; 2822.1; 12-DEC-2009 21:48:55; Bright; 66.0; 42; 34Bet Aur ; 1.90; 10200;occ; 132; 0;40707
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25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707
26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707
27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707
28; 4716.9; 12-DEC-2009 22:20:29; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40707
29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707
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26; 4139.5; 12-DEC-2009 23:51:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40708
27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708
28; 4717.3; 13-DEC-2009 00:01:06; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40708
29; 4941.2; 13-DEC-2009 00:04:50; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40708
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 11; 12.2; 13-DEC-2009 07:05:40; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40713  
 12; 235.1; 13-DEC-2009 07:09:23; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40713  
 13; 472.7; 13-DEC-2009 07:13:21; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40713  
 14; 549.4; 13-DEC-2009 07:14:37; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40713  
 15; 748.6; 13-DEC-2009 07:17:57; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;40713  
 16; 889.0; 13-DEC-2009 07:20:17; Dark ; 45.5; 2; Alp Car ;-0.74; 7000;occ; 91; 0;40713  
 17; 1045.5; 13-DEC-2009 07:22:54; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40713  
 18; 1246.7; 13-DEC-2009 07:26:15; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;40713  
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 4; 2193.9; 13-DEC-2009 07:42:02; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40713  
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12; 4334.4; 13-DEC-2009 08:17:42; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40713
13; 4719.0; 13-DEC-2009 08:24:07; Bright; 58.0; 111; 8Eta Boo ; 2.68; 6000;occ; 116; 0;40713
14; 4944.2; 13-DEC-2009 08:27:52; Bright; 53.0; 138; 47Eps Vir ; 2.83; 4700;occ; 106; 0;40713
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16; 5509.3; 13-DEC-2009 08:37:17; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;40713
17; 5637.7; 13-DEC-2009 08:39:26; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;40713
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19; 6048.8; 13-DEC-2009 08:46:17; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40713
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21; 6509.0; 13-DEC-2009 08:53:57; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40713
22; 6586.1; 13-DEC-2009 08:55:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40713
23; 6785.3; 13-DEC-2009 08:58:33; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40713
24; 6925.3; 13-DEC-2009 09:00:53; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;40713
25; 7082.1; 13-DEC-2009 09:03:30; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;40713
26; 7283.0; 13-DEC-2009 09:06:51; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40713
27; 7568.1; 13-DEC-2009 09:11:36; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;40713
28; 7784.7; 13-DEC-2009 09:15:13; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;40713
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2; 1889.8; 13-DEC-2009 09:17:34; Dark ; 49.0; 30; 46Eps Ori ; 1.69; 30000;occ; 98; 0;40714
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4; 2193.7; 13-DEC-2009 09:22:38; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40714
5; 2341.8; 13-DEC-2009 09:25:06; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40714
6; 2464.0; 13-DEC-2009 09:27:08; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40714
7; 2589.5; 13-DEC-2009 09:29:14; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40714
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12; 4139.7; 13-DEC-2009 09:55:04; Bright; 36.0; 39; 85Eta UMa ; 1.85; 24000;occ; 72; 0;40714
13; 4334.6; 13-DEC-2009 09:58:19; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40714
14; 4719.3; 13-DEC-2009 10:04:43; Bright; 58.0; 111; 8Eta Boo ; 2.68; 6000;occ; 116; 0;40714
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26; 7082.7; 13-DEC-2009 10:44:07; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;40714
27; 7283.4; 13-DEC-2009 10:47:27; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;40714
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11; 3990.2; 13-DEC-2009 11:33:10; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40715
12; 4139.3; 13-DEC-2009 11:35:39; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40715
13; 4334.7; 13-DEC-2009 11:38:55; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;40715
14; 4719.4; 13-DEC-2009 11:45:19; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40715
15; 4945.6; 13-DEC-2009 11:49:05; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40715
16; 5301.3; 13-DEC-2009 11:55:01; Dark ; 48.5; 15; 67Alp Vir ; 0.98; 28000;occ; 97; 0;40715
17; 5510.7; 13-DEC-2009 11:58:31; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;40715
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 23; 6587.6; 13-DEC-2009 12:16:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40715  
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 9; 2816.4; 13-DEC-2009 12:54:12; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;40716  
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 12; 4139.5; 13-DEC-2009 13:16:15; Bright; 52.5; 39; 85Eta UMa ; 1.85; 24000;occ; 105; 0;40716  
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 17; 5511.4; 13-DEC-2009 13:39:07; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40716  
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 22; 6274.4; 13-DEC-2009 13:51:50; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40716  
 23; 6511.1; 13-DEC-2009 13:55:47; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40716  
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 12; 4139.6; 13-DEC-2009 14:56:51; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40717  
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 17; 5512.2; 13-DEC-2009 15:19:44; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40717  
 18; 5642.9; 13-DEC-2009 15:21:55; Dark ; 55.5; 100; 4Gam Crv ; 2.58; 13100;occ; 111; 0;40717  
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 22; 6275.4; 13-DEC-2009 15:32:27; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40717  
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 24; 6589.3; 13-DEC-2009 15:37:41; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40717  
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 26; 6926.9; 13-DEC-2009 15:43:19; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40717  
 27; 7084.5; 13-DEC-2009 15:45:56; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40717  
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 3; 2072.9; 16-DEC-2009 09:26:22; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40757  
 4; 2190.0; 16-DEC-2009 09:28:19; Dark ; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;40757  
 5; 2322.9; 16-DEC-2009 09:30:32; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40757  
 6; 2446.2; 16-DEC-2009 09:32:36; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40757  
 7; 2661.5; 16-DEC-2009 09:36:11; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;40757  
 8; 2791.9; 16-DEC-2009 09:38:21; Bright; 51.5; 42; 34Bet Aur ; 1.90; 10200;occ; 103; 0;40757  
 9; 3704.5; 16-DEC-2009 09:53:34; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40757  
 10; 3981.5; 16-DEC-2009 09:58:11; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40757  
 11; 4137.4; 16-DEC-2009 10:00:47; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40757  
 12; 4338.5; 16-DEC-2009 10:04:08; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40757  
 13; 4531.7; 16-DEC-2009 10:07:21; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40757  
 14; 4732.1; 16-DEC-2009 10:10:42; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40757  
 15; 4972.7; 16-DEC-2009 10:14:42; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;40757  
 16; 5331.0; 16-DEC-2009 10:20:40; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40757  
 17; 5541.0; 16-DEC-2009 10:24:10; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40757  
 18; 5693.0; 16-DEC-2009 10:26:42; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40757  
 19; 5790.0; 16-DEC-2009 10:28:19; Dark ; 53.0; 171; 2Eps Crv ; 3.00; 4250;occ; 106; 0;40757  
 20; 5980.5; 16-DEC-2009 10:31:30; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40757  
 21; 6078.8; 16-DEC-2009 10:33:08; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40757  
 22; 6310.8; 16-DEC-2009 10:37:00; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40757  
 23; 6536.5; 16-DEC-2009 10:40:46; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;40757  
 24; 6619.4; 16-DEC-2009 10:42:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40757  
 25; 6817.0; 16-DEC-2009 10:45:26; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40757  
 26; 6945.0; 16-DEC-2009 10:47:34; Dark ; 49.5; 70; Zet Pup ; 2.25; 39000;occ; 99; 0;40757  
 27; 7107.4; 16-DEC-2009 10:50:17; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40757  
 28; 7252.1; 16-DEC-2009 10:52:42; Dark ; 30.0; 88; 31Eta CMa ; 2.45; 20000;occ; 60; 0;40757  
 29; 7301.9; 16-DEC-2009 10:53:31; Dark ; 54.0; 23; 21Eps CMa ; 1.50; 26000;occ; 108; 0;40757  
 30; 7574.3; 16-DEC-2009 10:58:04; Dark ; 49.0; 47; 2Bet CMa ; 1.98; 28000;occ; 98; 0;40757

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 2; 1750.1; 16-DEC-2009 11:01:35; Dark ; 44.0; 7; 19Bet Ori ; 0.10; 14000;occ; 88; 0;40758  
 3; 1884.6; 16-DEC-2009 11:03:50; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40758  
 4; 2072.5; 16-DEC-2009 11:06:58; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40758

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6; 2322.6; 16-DEC-2009 11:11:08; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40758
7; 2445.8; 16-DEC-2009 11:13:11; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40758
8; 2661.0; 16-DEC-2009 11:16:46; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;40758
9; 2791.4; 16-DEC-2009 11:18:57; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40758
10; 3704.7; 16-DEC-2009 11:34:10; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;40758
11; 3981.2; 16-DEC-2009 11:38:46; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;40758
12; 4137.2; 16-DEC-2009 11:41:23; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40758
13; 4338.7; 16-DEC-2009 11:44:44; Bright; 47.5; 180; 27Gam Boo ; 3.04; 8000;occ; 95; 0;40758
14; 4531.9; 16-DEC-2009 11:47:57; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;40758
15; 4732.4; 16-DEC-2009 11:51:18; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40758
16; 4973.5; 16-DEC-2009 11:55:19; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;40758
17; 5331.6; 16-DEC-2009 12:01:17; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40758
18; 5541.7; 16-DEC-2009 12:04:47; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;40758
19; 5694.0; 16-DEC-2009 12:07:19; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;40758
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21; 5981.0; 16-DEC-2009 12:12:06; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40758
22; 6079.5; 16-DEC-2009 12:13:45; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40758
23; 6311.6; 16-DEC-2009 12:17:37; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40758
24; 6537.2; 16-DEC-2009 12:21:22; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40758
25; 6620.1; 16-DEC-2009 12:22:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40758
26; 6817.7; 16-DEC-2009 12:26:03; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40758
27; 6945.6; 16-DEC-2009 12:28:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40758
28; 7107.8; 16-DEC-2009 12:30:53; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40758
29; 7252.6; 16-DEC-2009 12:33:18; Dark ; 30.0; 88; 31Eta CMa ; 2.45; 20000;occ; 60; 0;40758
30; 7302.4; 16-DEC-2009 12:34:08; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;40758
31; 7574.3; 16-DEC-2009 12:38:40; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;40758
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2; 1750.1; 16-DEC-2009 12:42:11; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40759
3; 1884.4; 16-DEC-2009 12:44:26; Dark ; 42.0; 30; 46Eps Ori ; 1.69; 30000;occ; 84; 0;40759
4; 2072.3; 16-DEC-2009 12:47:34; Dark ; 63.0; 14; 58Alp Ori ; 0.87; 3000;occ; 126; 0;40759
5; 2189.8; 16-DEC-2009 12:49:31; Dark ; 48.5; 13; 87Alp Tau ; 0.87; 3800;occ; 97; 0;40759
6; 2322.0; 16-DEC-2009 12:51:43; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40759
7; 2445.3; 16-DEC-2009 12:53:47; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40759
8; 2660.3; 16-DEC-2009 12:57:22; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40759
9; 2791.0; 16-DEC-2009 12:59:32; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40759
10; 3704.4; 16-DEC-2009 13:14:46; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;40759
11; 3981.0; 16-DEC-2009 13:19:22; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;40759
12; 4137.1; 16-DEC-2009 13:21:58; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40759
13; 4338.9; 16-DEC-2009 13:25:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40759
14; 4532.1; 16-DEC-2009 13:28:33; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 0;40759
15; 4732.9; 16-DEC-2009 13:31:54; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40759
16; 4973.9; 16-DEC-2009 13:35:55; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;40759
17; 5332.4; 16-DEC-2009 13:41:54; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40759
18; 5542.7; 16-DEC-2009 13:45:24; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40759
19; 5695.2; 16-DEC-2009 13:47:56; Dark ; 49.5; 106; 9Bet Crv ; 2.65; 5600;occ; 99; 0;40759
20; 5792.7; 16-DEC-2009 13:49:34; Dark ; 48.0; 171; 2Eps Crv ; 3.00; 4250;occ; 96; 0;40759
21; 5981.7; 16-DEC-2009 13:52:43; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40759
22; 6080.3; 16-DEC-2009 13:54:21; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40759
23; 6312.7; 16-DEC-2009 13:58:14; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40759
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26; 6818.5; 16-DEC-2009 14:06:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40759
27; 6946.4; 16-DEC-2009 14:08:48; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40759
28; 7108.6; 16-DEC-2009 14:11:30; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40759
29; 7253.3; 16-DEC-2009 14:13:54; Dark ; 34.0; 88; 31Eta CMa ; 2.45; 20000;occ; 68; 0;40759
30; 7344.4; 16-DEC-2009 14:15:26; Dark ; 54.0; 37; 25Del CMa ; 1.83; 5900;occ; 108; 0;40759
31; 7574.5; 16-DEC-2009 14:19:16; Dark ; 31.5; 47; 2Bet CMa ; 1.98; 28000;occ; 63; 0;40759
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2; 1750.3; 16-DEC-2009 14:22:47; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40760
3; 1884.5; 16-DEC-2009 14:25:02; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40760
4; 2072.0; 16-DEC-2009 14:28:09; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40760
5; 2189.9; 16-DEC-2009 14:30:07; Dark ; 49.5; 13; 87Alp Tau ; 0.87; 3800;occ; 99; 0;40760
6; 2321.9; 16-DEC-2009 14:32:19; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40760
7; 2445.0; 16-DEC-2009 14:34:22; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40760
8; 2659.9; 16-DEC-2009 14:37:57; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40760

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9; 2790.4; 16-DEC-2009 14:40:07; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40760  
 10; 3704.8; 16-DEC-2009 14:55:22; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;40760  
 11; 3981.0; 16-DEC-2009 14:59:58; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;40760  
 12; 4137.1; 16-DEC-2009 15:02:34; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;40760  
 13; 4339.2; 16-DEC-2009 15:05:56; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40760  
 14; 4532.5; 16-DEC-2009 15:09:10; Bright; 36.0; 83; ; 2.38; 11000;occ; 72; 0;40760  
 15; 4733.2; 16-DEC-2009 15:12:30; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40760  
 16; 4974.8; 16-DEC-2009 15:16:32; Bright; 30.0; 138; 47Eps Vir ; 2.83; 4700;occ; 60; 0;40760  
 17; 5333.3; 16-DEC-2009 15:22:30; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;40760  
 18; 5543.4; 16-DEC-2009 15:26:01; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;40760  
 19; 5696.3; 16-DEC-2009 15:28:33; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40760  
 20; 5794.2; 16-DEC-2009 15:30:11; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40760  
 21; 5982.4; 16-DEC-2009 15:33:19; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40760  
 22; 6080.9; 16-DEC-2009 15:34:58; Dark ; 38.5; 99; Del Cen ; 2.58; 26000;occ; 77; 0;40760  
 23; 6313.5; 16-DEC-2009 15:38:51; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;40760  
 24; 6538.5; 16-DEC-2009 15:42:36; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;40760  
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 27; 6947.1; 16-DEC-2009 15:49:24; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40760  
 28; 7109.3; 16-DEC-2009 15:52:06; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40760  
 29; 7253.9; 16-DEC-2009 15:54:31; Dark ; 34.0; 88; 31Eta CMa ; 2.45; 20000;occ; 68; 0;40760  
 30; 7344.9; 16-DEC-2009 15:56:02; Dark ; 8.5; 37; 25Del CMa ; 1.83; 5900;occ; 17; 0;40760

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 3; 1538.7; 16-DEC-2009 15:59:52; Dark ; 51.0; 47; 2Bet CMa ; 1.98; 28000;occ; 102; 0;40761  
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 6; 2071.7; 16-DEC-2009 16:08:45; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40761  
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 8; 2321.5; 16-DEC-2009 16:12:55; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40761  
 9; 2444.7; 16-DEC-2009 16:14:58; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40761  
 10; 2659.1; 16-DEC-2009 16:18:32; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40761  
 11; 2789.7; 16-DEC-2009 16:20:43; Bright; 46.0; 42; 34Bet Aur ; 1.90; 10200;occ; 92; 0;40761  
 12; 3704.6; 16-DEC-2009 16:35:58; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40761  
 13; 3980.7; 16-DEC-2009 16:40:34; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;40761  
 14; 4137.0; 16-DEC-2009 16:43:10; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;40761  
 15; 4338.9; 16-DEC-2009 16:46:32; Bright; 51.5; 180; 27Gam Boo ; 3.04; 8000;occ; 103; 0;40761  
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 17; 4733.4; 16-DEC-2009 16:53:06; Bright; 60.0; 111; 8Eta Boo ; 2.68; 6000;occ; 120; 0;40761  
 18; 4975.5; 16-DEC-2009 16:57:09; Bright; 30.0; 138; 47Eps Vir ; 2.83; 4700;occ; 60; 0;40761  
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 21; 5697.4; 16-DEC-2009 17:09:10; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40761  
 22; 5795.7; 16-DEC-2009 17:10:49; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40761  
 23; 5983.1; 16-DEC-2009 17:13:56; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40761  
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 25; 6314.4; 16-DEC-2009 17:19:27; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;40761  
 26; 6539.0; 16-DEC-2009 17:23:12; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;40761  
 27; 6622.5; 16-DEC-2009 17:24:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40761  
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 30; 7109.8; 16-DEC-2009 17:32:43; Dark ; 39.0; 117; Pi Pup ; 2.71; 3800;occ; 78; 0;40761

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 5; 1750.3; 16-DEC-2009 17:43:59; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40762  
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 9; 2321.0; 16-DEC-2009 17:53:30; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40762  
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13; 508.0; 17-DEC-2009 06:48:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40770
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 14; 4535.1; 17-DEC-2009 14:37:35; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40774  
 15; 4738.0; 17-DEC-2009 14:40:58; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40774  
 16; 5343.8; 17-DEC-2009 14:51:04; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40774  
 17; 5554.5; 17-DEC-2009 14:54:35; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;40774  
 18; 5711.8; 17-DEC-2009 14:57:12; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40774  
 19; 5991.4; 17-DEC-2009 15:01:52; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40774  
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 21; 6326.1; 17-DEC-2009 15:07:26; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40774



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 23; 6632.0; 17-DEC-2009 15:12:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40774  
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 25; 6957.5; 17-DEC-2009 15:17:58; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40774  
 26; 7116.7; 17-DEC-2009 15:20:37; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40774  
 27; 7309.0; 17-DEC-2009 15:23:49; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40774  
 28; 7415.0; 17-DEC-2009 15:25:35; Dark ; 10.5; 179; 240mi2CMA ; 3.03; 24000;occ; 21; 0;40774

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 7; 2316.0; 17-DEC-2009 15:41:12; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40775  
 8; 2439.5; 17-DEC-2009 15:43:16; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40775  
 9; 2651.0; 17-DEC-2009 15:46:47; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40775  
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 11; 3704.2; 17-DEC-2009 16:04:20; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40775  
 12; 3977.4; 17-DEC-2009 16:08:54; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40775  
 13; 4136.1; 17-DEC-2009 16:11:32; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40775  
 14; 4340.5; 17-DEC-2009 16:14:57; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40775  
 15; 4535.1; 17-DEC-2009 16:18:11; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40775  
 16; 4738.2; 17-DEC-2009 16:21:34; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;40775  
 17; 5344.7; 17-DEC-2009 16:31:41; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40775  
 18; 5555.2; 17-DEC-2009 16:35:11; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40775  
 19; 5712.9; 17-DEC-2009 16:37:49; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40775  
 20; 5992.1; 17-DEC-2009 16:42:28; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40775  
 21; 6091.6; 17-DEC-2009 16:44:08; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40775  
 22; 6327.1; 17-DEC-2009 16:48:03; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40775  
 23; 6547.7; 17-DEC-2009 16:51:44; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40775  
 24; 6632.8; 17-DEC-2009 16:53:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40775  
 25; 6829.6; 17-DEC-2009 16:56:26; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;40775  
 26; 6958.2; 17-DEC-2009 16:58:34; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40775  
 27; 7117.5; 17-DEC-2009 17:01:14; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40775

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 5; 1882.9; 17-DEC-2009 17:14:35; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;40776  
 6; 2067.1; 17-DEC-2009 17:17:39; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40776  
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 8; 2315.8; 17-DEC-2009 17:21:48; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40776  
 9; 2439.2; 17-DEC-2009 17:23:51; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40776  
 10; 2650.2; 17-DEC-2009 17:27:22; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40776  
 11; 2781.4; 17-DEC-2009 17:29:34; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40776  
 12; 3704.1; 17-DEC-2009 17:44:56; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40776  
 13; 3977.1; 17-DEC-2009 17:49:29; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0;40776  
 14; 4136.2; 17-DEC-2009 17:52:08; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40776  
 15; 4340.5; 17-DEC-2009 17:55:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40776  
 16; 4535.5; 17-DEC-2009 17:58:48; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40776  
 17; 4738.4; 17-DEC-2009 18:02:11; Bright; 41.5; 111; 8Eta Boo ; 2.68; 6000;occ; 83; 0;40776  
 18; 5345.4; 17-DEC-2009 18:12:18; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40776  
 19; 5556.2; 17-DEC-2009 18:15:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40776  
 20; 5714.2; 17-DEC-2009 18:18:26; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40776  
 21; 5992.9; 17-DEC-2009 18:23:05; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40776  
 22; 6092.2; 17-DEC-2009 18:24:44; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40776  
 23; 6327.9; 17-DEC-2009 18:28:40; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40776  
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 25; 6633.5; 17-DEC-2009 18:33:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40776  
 26; 6830.3; 17-DEC-2009 18:37:03; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40776  
 27; 6959.2; 17-DEC-2009 18:39:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40776

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1; 1082.0; 17-DEC-2009 18:41:50; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40777  
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6; 1883.0; 17-DEC-2009 18:55:11; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40777  
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8; 2189.1; 17-DEC-2009 19:00:17; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;40777  
9; 2315.1; 17-DEC-2009 19:02:23; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40777  
10; 2438.6; 17-DEC-2009 19:04:27; Bright; 56.5; 28; 12Bet Tau ; 1.65; 15200;occ; 113; 0;40777  
11; 2649.6; 17-DEC-2009 19:07:58; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;40777  
12; 2780.9; 17-DEC-2009 19:10:09; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40777  
13; 3704.1; 17-DEC-2009 19:25:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40777  
14; 3977.1; 17-DEC-2009 19:30:05; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40777  
15; 4136.1; 17-DEC-2009 19:32:44; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40777  
16; 4340.3; 17-DEC-2009 19:36:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40777  
17; 4535.6; 17-DEC-2009 19:39:24; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;40777  
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19; 5346.1; 17-DEC-2009 19:52:54; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40777  
20; 5556.6; 17-DEC-2009 19:56:25; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40777  
21; 5715.4; 17-DEC-2009 19:59:04; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40777  
22; 5993.2; 17-DEC-2009 20:03:41; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;40777  
23; 6092.8; 17-DEC-2009 20:05:21; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40777  
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26; 6634.2; 17-DEC-2009 20:14:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40777  
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3; 59.1; 18-DEC-2009 01:07:11; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40781  
4; 295.4; 18-DEC-2009 01:11:07; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40781  
5; 514.6; 18-DEC-2009 01:14:46; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40781  
6; 600.5; 18-DEC-2009 01:16:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40781  
7; 797.0; 18-DEC-2009 01:19:29; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40781  
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9; 1084.0; 18-DEC-2009 01:24:16; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40781  
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13; 1751.1; 18-DEC-2009 01:35:23; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;40781  
14; 1882.5; 18-DEC-2009 01:37:34; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40781  
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22; 3975.9; 18-DEC-2009 02:12:28; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40781  
23; 4135.7; 18-DEC-2009 02:15:08; Bright; 16.5; 39; 85Eta UMa ; 1.85; 24000;occ; 33; 0;40781

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4; -1296.1; 18-DEC-2009 02:25:12; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40781  
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9; 59.8; 18-DEC-2009 02:47:48; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40782  
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11; 515.4; 18-DEC-2009 02:55:23; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40782  
12; 601.2; 18-DEC-2009 02:56:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40782  
13; 797.7; 18-DEC-2009 03:00:05; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40782  
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16; 1275.8; 18-DEC-2009 03:08:04; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40782  
17; 1381.2; 18-DEC-2009 03:09:49; Dark ; 53.0; 179; 240mi2CMa ; 3.03; 24000;occ; 106; 0;40782  
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23; 2313.3; 18-DEC-2009 03:25:21; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40782
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 9;-315.1; 18-DEC-2009 04:22:09; Dark ; 50.5; 106; 9Bet Crv ; 2.65; 5600;occ; 101; 0;40782
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13; 601.9; 18-DEC-2009 04:37:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40783
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27; 7313.3; 18-DEC-2009 09:50:29; Dark ; 54.0; 23; 21Eps CMa ; 1.50; 26000;occ; 108; 0;40785
28; 7418.5; 18-DEC-2009 09:52:14; Dark ; 51.5; 179; 240mi2CMa ; 3.03; 24000;occ; 103; 0;40785
29; 7594.6; 18-DEC-2009 09:55:10; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;40785
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 10; 3974.5; 18-DEC-2009 10:35:26; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40786  
 11; 4135.1; 18-DEC-2009 10:38:07; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40786  
 12; 4341.2; 18-DEC-2009 10:41:33; Bright; 53.5; 180; 27Gam Boo ; 3.04; 8000;occ; 107; 0;40786  
 13; 4536.8; 18-DEC-2009 10:44:49; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40786  
 14; 4741.7; 18-DEC-2009 10:48:13; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40786  
 15; 5353.2; 18-DEC-2009 10:58:25; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40786  
 16; 5563.8; 18-DEC-2009 11:01:55; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40786  
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 18; 5999.0; 18-DEC-2009 11:09:11; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40786  
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 22; 6640.6; 18-DEC-2009 11:19:52; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40786  
 23; 6837.0; 18-DEC-2009 11:23:09; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40786  
 24; 6966.1; 18-DEC-2009 11:25:18; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40786  
 25; 7123.1; 18-DEC-2009 11:27:55; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40786  
 26; 7313.7; 18-DEC-2009 11:31:05; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;40786  
 27; 7418.8; 18-DEC-2009 11:32:50; Dark ; 53.5; 179; 240mi2CMA ; 3.03; 24000;occ; 107; 0;40786  
 28; 7594.7; 18-DEC-2009 11:35:46; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;40786

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 5; 2311.5; 18-DEC-2009 11:48:19; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40787  
 6; 2435.4; 18-DEC-2009 11:50:23; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40787  
 7; 2644.0; 18-DEC-2009 11:53:52; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40787  
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 9; 3703.7; 18-DEC-2009 12:11:31; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40787  
 10; 3974.4; 18-DEC-2009 12:16:02; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40787  
 11; 4135.3; 18-DEC-2009 12:18:43; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40787  
 12; 4341.1; 18-DEC-2009 12:22:09; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;40787  
 13; 4537.1; 18-DEC-2009 12:25:25; Bright; 55.0; 83; ; 2.38; 11000;occ; 110; 0;40787  
 14; 4741.7; 18-DEC-2009 12:28:49; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40787  
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 16; 5564.6; 18-DEC-2009 12:42:32; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40787  
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 19; 6099.9; 18-DEC-2009 12:51:27; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40787  
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 22; 6641.4; 18-DEC-2009 13:00:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40787  
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 9; 2774.9; 18-DEC-2009 13:36:38; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40788  
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 11; 3974.1; 18-DEC-2009 13:56:37; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40788  
 12; 4135.2; 18-DEC-2009 13:59:19; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40788  
 13; 4341.1; 18-DEC-2009 14:02:45; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40788  
 14; 4537.2; 18-DEC-2009 14:06:01; Bright; 41.5; 83; ; 2.38; 11000;occ; 83; 0;40788  
 15; 4742.3; 18-DEC-2009 14:09:26; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40788  
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 17; 5565.5; 18-DEC-2009 14:23:09; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40788  
 18; 5728.0; 18-DEC-2009 14:25:51; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40788



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 21; 6338.6; 18-DEC-2009 14:36:02; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40788  
 22; 6555.5; 18-DEC-2009 14:39:39; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40788  
 23; 6642.2; 18-DEC-2009 14:41:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40788  
 24; 6838.3; 18-DEC-2009 14:44:22; Dark ; 52.5; 34; Gam2Vel ; 1.79; 23000;occ; 105; 0;40788  
 25; 6967.6; 18-DEC-2009 14:46:31; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40788  
 26; 7124.2; 18-DEC-2009 14:49:08; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40788  
 27; 7314.3; 18-DEC-2009 14:52:18; Dark ; 51.5; 23; 21Eps CMA ; 1.50; 26000;occ; 103; 0;40788  
 28; 7419.3; 18-DEC-2009 14:54:03; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40788

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 9; 2643.0; 18-DEC-2009 15:15:02; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40789  
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 12; 3974.0; 18-DEC-2009 15:37:13; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40789  
 13; 4135.1; 18-DEC-2009 15:39:54; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;40789  
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 15; 4537.6; 18-DEC-2009 15:46:37; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40789  
 16; 4742.7; 18-DEC-2009 15:50:02; Bright; 43.5; 111; 8Eta Boo ; 2.68; 6000;occ; 87; 0;40789  
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 18; 5566.4; 18-DEC-2009 16:03:46; Dark ; 50.0; 169; 46Gam Hya ; 2.99; 4700;occ; 100; 0;40789  
 19; 5729.3; 18-DEC-2009 16:06:29; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40789  
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 22; 6339.6; 18-DEC-2009 16:16:39; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40789  
 23; 6556.2; 18-DEC-2009 16:20:16; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40789  
 24; 6643.0; 18-DEC-2009 16:21:42; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40789  
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 26; 6968.4; 18-DEC-2009 16:27:08; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40789  
 27; 7125.0; 18-DEC-2009 16:29:44; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40789  
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 13; 3973.7; 18-DEC-2009 17:17:49; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40790  
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 15; 4341.5; 18-DEC-2009 17:23:57; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;40790  
 16; 4537.8; 18-DEC-2009 17:27:13; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40790  
 17; 4743.0; 18-DEC-2009 17:30:38; Bright; 50.0; 111; 8Eta Boo ; 2.68; 6000;occ; 100; 0;40790  
 18; 5356.5; 18-DEC-2009 17:40:52; Dark ; 57.5; 15; 67Alp Vir ; 0.98; 28000;occ; 115; 0;40790  
 19; 5567.2; 18-DEC-2009 17:44:23; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40790  
 20; 5730.6; 18-DEC-2009 17:47:06; Dark ; 54.0; 106; 9Bet Crv ; 2.65; 5600;occ; 108; 0;40790  
 21; 6001.9; 18-DEC-2009 17:51:37; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40790  
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 23; 6340.5; 18-DEC-2009 17:57:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40790  
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27; 7146.3; 21-DEC-2009 16:35:51; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40832
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23; 6582.7; 21-DEC-2009 18:07:03; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;40833
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 27; 4546.2; 22-DEC-2009 01:56:06; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40838  
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 22; 2715.4; 22-DEC-2009 03:06:11; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40839

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 21; 1565.0; 22-DEC-2009 04:27:37; Dark ; 56.5; 1; 9Alp CMa ; -1.44; 11000;occ; 113; 0;40840  
 22; 1755.1; 22-DEC-2009 04:30:47; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40840  
 23; 1879.4; 22-DEC-2009 04:32:51; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40840  
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 5;-1489.3; 22-DEC-2009 05:17:19; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40840  
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 18; 1114.3; 22-DEC-2009 06:00:42; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40841  
 19; 1297.6; 22-DEC-2009 06:03:46; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;40841  
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 27; 2616.7; 22-DEC-2009 06:25:45; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40841  
 28; 2715.0; 22-DEC-2009 06:27:23; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;40841

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 5;-1488.8; 22-DEC-2009 06:57:55; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40841  
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 23; 4127.6; 23-DEC-2009 23:05:18; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40865  
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 26; 4771.0; 23-DEC-2009 23:16:02; Bright; 65.5; 111; 8Eta Boo ; 2.68; 6000;occ; 131; 0;40865

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 22; 3952.7; 24-DEC-2009 00:42:59; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;40866  
 23; 4127.5; 24-DEC-2009 00:45:54; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40866  
 24; 4347.4; 24-DEC-2009 00:49:34; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40866  
 25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866  
 26; 4771.3; 24-DEC-2009 00:56:38; Bright; 66.5; 111; 8Eta Boo ; 2.68; 6000;occ; 133; 0;40866

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11; 97.4; 23-DEC-2009 06:52:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40856  
12; 363.5; 23-DEC-2009 06:57:11; Dark ; 57.0; 113; Mu Vel ; 2.69; 5000;occ; 114; 0;40856  
13; 559.9; 23-DEC-2009 07:00:27; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;40856  
14; 666.3; 23-DEC-2009 07:02:13; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;40856  
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8; 3700.8; 23-DEC-2009 07:52:48; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;40856  
9; 3955.6; 23-DEC-2009 07:57:03; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40856  
10; 4128.8; 23-DEC-2009 07:59:56; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40856  
11; 4346.7; 23-DEC-2009 08:03:34; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40856  
12; 4549.7; 23-DEC-2009 08:06:57; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40856  
13; 4767.3; 23-DEC-2009 08:10:34; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40856  
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15; 5687.8; 23-DEC-2009 08:25:55; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;40856  
16; 5814.2; 23-DEC-2009 08:28:01; Dark ; 47.0; 106; 9Bet Crv ; 2.65; 5600;occ; 94; 0;40856  
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19; 6400.3; 23-DEC-2009 08:37:47; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40856  
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22; 6882.3; 23-DEC-2009 08:45:49; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;40856  
23; 7013.5; 23-DEC-2009 08:48:01; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;40856  
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26; 7438.9; 23-DEC-2009 08:55:06; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
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19; 6136.8; 23-DEC-2009 13:35:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40859
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21; 6598.2; 23-DEC-2009 13:42:53; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40859
22; 6704.2; 23-DEC-2009 13:44:39; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;40859
23; 6883.9; 23-DEC-2009 13:47:39; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;40859
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11; 3954.7; 23-DEC-2009 14:39:25; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40860  
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13; 4347.2; 23-DEC-2009 14:45:58; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40860  
14; 4550.5; 23-DEC-2009 14:49:21; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40860  
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17; 5690.3; 23-DEC-2009 15:08:21; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;40860  
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21; 6404.0; 23-DEC-2009 15:20:15; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40860  
22; 6598.8; 23-DEC-2009 15:23:29; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40860  
23; 6704.7; 23-DEC-2009 15:25:15; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;40860  
24; 6884.9; 23-DEC-2009 15:28:16; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40860  
25; 7016.0; 23-DEC-2009 15:30:27; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40860  
26; 7159.1; 23-DEC-2009 15:32:50; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40860

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4; 1567.2; 23-DEC-2009 15:40:14; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;40861  
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8; 2290.2; 23-DEC-2009 15:52:17; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40861  
9; 2415.1; 23-DEC-2009 15:54:22; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40861  
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11; 2710.4; 23-DEC-2009 15:59:17; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40861  
12; 3700.5; 23-DEC-2009 16:15:47; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40861  
13; 3954.3; 23-DEC-2009 16:20:01; Bright; 65.0; 32; 77Eps UMa ; 1.76; 11000;occ; 130; 0;40861  
14; 4128.1; 23-DEC-2009 16:22:55; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;40861  
15; 4347.2; 23-DEC-2009 16:26:34; Bright; 46.5; 180; 27Gam Boo ; 3.04; 8000;occ; 93; 0;40861  
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19; 5690.8; 23-DEC-2009 16:48:57; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;40861  
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21; 6050.9; 23-DEC-2009 16:54:58; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40861  
22; 6138.6; 23-DEC-2009 16:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40861  
23; 6404.9; 23-DEC-2009 17:00:52; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40861  
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27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861  
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4; 1404.4; 23-DEC-2009 17:18:07; Dark ; 50.0; 179; 240mi2CMa ; 3.03; 24000;occ; 100; 0;40862  
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12; 2710.4; 23-DEC-2009 17:39:53; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40862  
13; 3700.4; 23-DEC-2009 17:56:23; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40862  
14; 3954.0; 23-DEC-2009 18:00:37; Bright; 46.5; 32; 77Eps UMa ; 1.76; 11000;occ; 93; 0;40862  
15; 4128.0; 23-DEC-2009 18:03:31; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;40862  
16; 4347.2; 23-DEC-2009 18:07:10; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40862  
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 22; 6051.6; 23-DEC-2009 18:35:34; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40862  
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 19; 4770.0; 23-DEC-2009 19:54:49; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40863  
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 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863  
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 23; 3952.3; 24-DEC-2009 02:23:35; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40867  
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8; 19.2; 24-DEC-2009 02:58:37; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40868  
9; 107.9; 24-DEC-2009 03:00:06; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40868  
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 26; 7042.6; 26-DEC-2009 17:17:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40904  
 27; 7178.7; 26-DEC-2009 17:19:30; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;40904



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1;	1142.6;	26-DEC-2009	17:19:30;	Dark	;	49.0;	117;	Pi Pup	;	2.71;	3800;	occ;	98;	0;	40905
2;	1318.8;	26-DEC-2009	17:22:27;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40905
3;	1415.5;	26-DEC-2009	17:24:03;	Dark	;	47.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	95;	0;	40905
4;	1572.6;	26-DEC-2009	17:26:40;	Dark	;	53.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	107;	0;	40905
5;	1724.8;	26-DEC-2009	17:29:13;	Dark	;	43.5;	56;	53Kap Ori	;	2.07;	30000;	occ;	87;	0;	40905
6;	1878.8;	26-DEC-2009	17:31:47;	Dark	;	45.0;	30;	46Eps Ori	;	1.69;	30000;	occ;	90;	0;	40905
7;	2040.0;	26-DEC-2009	17:34:28;	Dark	;	49.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	99;	0;	40905
8;	2260.4;	26-DEC-2009	17:38:08;	Dark	;	52.5;	44;	24Gam Gem	;	1.93;	11000;	occ;	105;	0;	40905
9;	2406.5;	26-DEC-2009	17:40:34;	Bright;		40.0;	28;	12Bet Tau	;	1.65;	15200;	occ;	80;	0;	40905
10;	2590.4;	26-DEC-2009	17:43:38;	Bright;		41.0;	107;	37The Aur	;	2.65;	11000;	occ;	82;	0;	40905
11;	2701.9;	26-DEC-2009	17:45:30;	Bright;		41.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	83;	0;	40905
12;	3644.3;	26-DEC-2009	18:01:12;	Bright;		48.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	96;	0;	40905
13;	3940.1;	26-DEC-2009	18:06:08;	Bright;		43.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	86;	0;	40905
14;	4122.1;	26-DEC-2009	18:09:10;	Bright;		46.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	92;	0;	40905
15;	4349.5;	26-DEC-2009	18:12:57;	Bright;		59.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	118;	0;	40905
16;	4559.1;	26-DEC-2009	18:16:27;	Bright;		40.0;	83;		;	2.38;	11000;	occ;	80;	0;	40905
17;	4788.1;	26-DEC-2009	18:20:16;	Bright;		70.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	140;	0;	40905
18;	5313.2;	26-DEC-2009	18:29:01;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40905
19;	5465.9;	26-DEC-2009	18:31:34;	Dark	;	58.5;	15;	67Alp Vir	;	0.98;	28000;	occ;	117;	0;	40905
20;	5716.7;	26-DEC-2009	18:35:45;	Dark	;	45.0;	54;	5The Cen	;	2.06;	4500;	occ;	90;	0;	40905
21;	5843.1;	26-DEC-2009	18:37:51;	Dark	;	42.5;	123;	Iot Cen	;	2.75;	10200;	occ;	85;	0;	40905
22;	6083.4;	26-DEC-2009	18:41:51;	Dark	;	46.5;	64;	Gam Cen	;	2.20;	10600;	occ;	93;	0;	40905
23;	6177.5;	26-DEC-2009	18:43:25;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40905
24;	6444.9;	26-DEC-2009	18:47:53;	Dark	;	47.5;	113;	Mu Vel	;	2.69;	5000;	occ;	95;	0;	40905
25;	6624.8;	26-DEC-2009	18:50:53;	Dark	;	47.0;	71;	Iot Car	;	2.25;	7700;	occ;	94;	0;	40905
26;	6726.9;	26-DEC-2009	18:52:35;	Dark	;	52.5;	41;	Eps Car	;	1.86;	4100;	occ;	105;	0;	40905
27;	6911.5;	26-DEC-2009	18:55:39;	Dark	;	47.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	94;	0;	40905
28;	7043.3;	26-DEC-2009	18:57:51;	Dark	;	47.5;	70;	Zet Pup	;	2.25;	39000;	occ;	95;	0;	40905

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2;	1143.0;	26-DEC-2009	19:00:07;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	40906
3;	1319.0;	26-DEC-2009	19:03:03;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40906
4;	1415.9;	26-DEC-2009	19:04:40;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	93;	0;	40906
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6;	1724.9;	26-DEC-2009	19:09:49;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	90;	0;	40906
7;	1878.8;	26-DEC-2009	19:12:23;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	40906
8;	2039.8;	26-DEC-2009	19:15:04;	Dark	;	51.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	103;	0;	40906
9;	2259.7;	26-DEC-2009	19:18:44;	Dark	;	63.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	126;	0;	40906
10;	2406.2;	26-DEC-2009	19:21:10;	Bright;		38.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	77;	0;	40906
11;	2590.0;	26-DEC-2009	19:24:14;	Bright;		40.0;	107;	37The Aur	;	2.65;	11000;	occ;	80;	0;	40906
12;	2701.7;	26-DEC-2009	19:26:06;	Bright;		43.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	87;	0;	40906
13;	3643.7;	26-DEC-2009	19:41:48;	Bright;		46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	40906
14;	3939.5;	26-DEC-2009	19:46:43;	Bright;		47.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	94;	0;	40906
15;	4121.9;	26-DEC-2009	19:49:46;	Bright;		41.5;	39;	85Eta UMa	;	1.85;	24000;	occ;	83;	0;	40906
16;	4349.6;	26-DEC-2009	19:53:33;	Bright;		41.5;	180;	27Gam Boo	;	3.04;	8000;	occ;	83;	0;	40906
17;	4559.5;	26-DEC-2009	19:57:03;	Bright;		39.0;	83;		;	2.38;	11000;	occ;	78;	0;	40906
18;	4788.4;	26-DEC-2009	20:00:52;	Bright;		70.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	140;	0;	40906
19;	5313.6;	26-DEC-2009	20:09:37;	Dark	;	46.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	93;	0;	40906
20;	5467.1;	26-DEC-2009	20:12:11;	Dark	;	59.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	118;	0;	40906
21;	5717.3;	26-DEC-2009	20:16:21;	Dark	;	44.5;	54;	5The Cen	;	2.06;	4500;	occ;	89;	0;	40906
22;	5843.9;	26-DEC-2009	20:18:28;	Dark	;	46.0;	123;	Iot Cen	;	2.75;	10200;	occ;	92;	0;	40906
23;	6084.1;	26-DEC-2009	20:22:28;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;	occ;	89;	0;	40906
24;	6178.3;	26-DEC-2009	20:24:02;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40906
25;	6445.7;	26-DEC-2009	20:28:30;	Dark	;	46.0;	113;	Mu Vel	;	2.69;	5000;	occ;	92;	0;	40906
26;	6625.1;	26-DEC-2009	20:31:29;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;	occ;	84;	0;	40906
27;	6727.3;	26-DEC-2009	20:33:11;	Dark	;	53.0;	41;	Eps Car	;	1.86;	4100;	occ;	106;	0;	40906
28;	6912.0;	26-DEC-2009	20:36:16;	Dark	;	21.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	42;	0;	40906

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3;	-1686.3;	27-DEC-2009	02:35:57;	Bright;		59.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	118;	0;	40910
4;	-1475.9;	27-DEC-2009	02:39:27;	Bright;		58.0;	83;		;	2.38;	11000;	occ;	116;	0;	40910
5;	-1246.0;	27-DEC-2009	02:43:17;	Bright;		48.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	96;	0;	40910
6;	-720.5;	27-DEC-2009	02:52:03;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40910
7;	-564.4;	27-DEC-2009	02:54:39;	Dark	;	58.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	116;	0;	40910
8;	-316.2;	27-DEC-2009	02:58:47;	Dark	;	51.5;	54;	5The Cen	;	2.06;	4500;	occ;	103;	0;	40910
9;	-188.4;	27-DEC-2009	03:00:55;	Dark	;	43.5;	123;	Iot Cen	;	2.75;	10200;	occ;	87;	0;	40910

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13; 591.7; 27-DEC-2009 03:13:55; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40911
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19; 1417.1; 27-DEC-2009 03:27:40; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40911
20; 1573.2; 27-DEC-2009 03:30:16; Dark ; 53.0; 1; 9Alp CMA ; -1.44; 11000;occ; 106; 0;40911
21; 1725.3; 27-DEC-2009 03:32:49; Dark ; 44.0; 56; 53Kap Ori ; 2.07; 30000;occ; 88; 0;40911
22; 1878.7; 27-DEC-2009 03:35:22; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;40911
23; 2039.2; 27-DEC-2009 03:38:02; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40911
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25; 2405.4; 27-DEC-2009 03:44:09; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40911
26; 2588.2; 27-DEC-2009 03:47:12; Bright; 40.0; 107; 37The Aur ; 2.65; 11000;occ; 80; 0;40911
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5; -1244.5; 27-DEC-2009 07:45:07; Bright; 70.0; 111; 8Eta Boo ; 2.68; 6000;occ; 140; 0;40913
6; -718.9; 27-DEC-2009 07:53:52; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;40913
7; -561.0; 27-DEC-2009 07:56:30; Dark ; 59.0; 15; 67Alp Vir ; 0.98; 28000;occ; 118; 0;40913
8; -314.4; 27-DEC-2009 08:00:37; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;40913
9; -185.8; 27-DEC-2009 08:02:46; Dark ; 44.5; 123; Iot Cen ; 2.75; 10200;occ; 89; 0;40913
10; 53.6; 27-DEC-2009 08:06:45; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40914
11; 148.7; 27-DEC-2009 08:08:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40914
12; 416.2; 27-DEC-2009 08:12:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40914
13; 593.2; 27-DEC-2009 08:15:44; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;40914
14; 694.7; 27-DEC-2009 08:17:26; Dark ; 48.0; 41; Eps Car ; 1.86; 4100;occ; 96; 0;40914
15; 880.1; 27-DEC-2009 08:20:31; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;40914
16; 1011.8; 27-DEC-2009 08:22:43; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;40914
17; 1146.5; 27-DEC-2009 08:24:58; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;40914
18; 1321.2; 27-DEC-2009 08:27:53; Dark ; 48.5; 23; 21Eps CMA ; 1.50; 26000;occ; 97; 0;40914
19; 1417.9; 27-DEC-2009 08:29:29; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40914
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3; 1878.9; 27-DEC-2009 08:37:10; Dark ; 43.5; 30; 46Eps Ori ; 1.69; 30000;occ; 87; 0;40914
4; 2038.8; 27-DEC-2009 08:39:50; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;40914
5; 2256.1; 27-DEC-2009 08:43:27; Dark ; 59.0; 44; 24Gam Gem ; 1.93; 11000;occ; 118; 0;40914
6; 2405.0; 27-DEC-2009 08:45:56; Bright; 39.5; 28; 12Bet Tau ; 1.65; 15200;occ; 79; 0;40914
7; 2587.4; 27-DEC-2009 08:48:59; Bright; 41.5; 107; 37The Aur ; 2.65; 11000;occ; 83; 0;40914
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9; 3638.8; 27-DEC-2009 09:06:30; Bright; 42.0; 36; 50Alp UMA ; 1.80; 6300;occ; 84; 0;40914
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11; 4120.7; 27-DEC-2009 09:14:32; Bright; 46.0; 39; 85Eta UMA ; 1.85; 24000;occ; 92; 0;40914
12; 4350.0; 27-DEC-2009 09:18:21; Bright; 40.0; 180; 27Gam Boo ; 3.04; 8000;occ; 80; 0;40914
13; 4560.8; 27-DEC-2009 09:21:52; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;40914
14; 4792.0; 27-DEC-2009 09:25:43; Bright; 71.0; 111; 8Eta Boo ; 2.68; 6000;occ; 142; 0;40914
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17; 5722.1; 27-DEC-2009 09:41:13; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;40914
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19; 6090.2; 27-DEC-2009 09:47:21; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40914
20; 6185.5; 27-DEC-2009 09:48:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40914
21; 6452.8; 27-DEC-2009 09:53:24; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40914
22; 6629.7; 27-DEC-2009 09:56:21; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;40914
23; 6731.2; 27-DEC-2009 09:58:02; Dark ; 56.0; 41; Eps Car ; 1.86; 4100;occ; 112; 0;40914
24; 6916.6; 27-DEC-2009 10:01:08; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;40914
25; 7048.2; 27-DEC-2009 10:03:20; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40914
26; 7182.8; 27-DEC-2009 10:05:34; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40914
27; 7357.6; 27-DEC-2009 10:08:29; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;40914

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4; 4120.7; 27-DEC-2009 09:14:32; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40914
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 20; 5903.3; 28-DEC-2009 14:14:25; Dark ; 39.0; 95; Zet Cen ; 2.55; 26000;occ; 78; 0;40931



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 24; 6639.4; 28-DEC-2009 14:26:41; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40931  
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 27; 7057.7; 28-DEC-2009 14:33:40; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40931  
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26; 4116.7; 29-DEC-2009 01:28:50; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40938
27; 4351.0; 29-DEC-2009 01:32:45; Bright; 47.0; 180; 27Gam Boo ; 3.04; 8000;occ; 94; 0;40938
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27; 2411.4; 31-DEC-2009 04:58:59; Bright; 47.5; 170; 27Eps Gem ; 3.00; 9700;occ; 95; 0;40969
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 6; 1881.0; 31-DEC-2009 16:34:20; Dark ; 41.5; 30; 46Eps Ori ; 1.69; 30000;occ; 83; 0;40976  
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