

# GOMOS Daily Report 04-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	06DEC2009 04:35:44
Data source version	GOMOS/5.00L04
Start time of products	04DEC2009 00:07:51
Stop time of products	04DEC2009 23:59:56
Store outputs in DB	Yes
Nb of level 1b prods	133
Nb of prods with errors	1

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

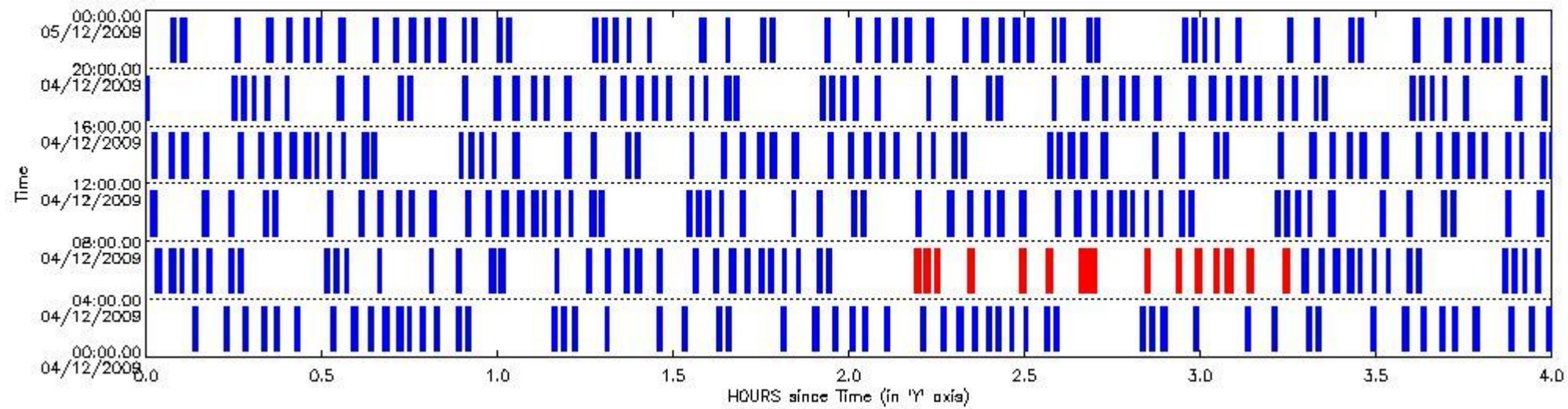
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
04-DEC-2009 06:11:10	50AlpUMa	36	40583
04-DEC-2009 06:12:45	48BetUMa	82	40583
04-DEC-2009 06:14:35	77EpsUMa	32	40583
04-DEC-2009 06:20:16	12Alp2CVn	152	40583
04-DEC-2009 06:29:04	47EpsVir	138	40583
04-DEC-2009 06:33:34	29GamVir	121	40583
04-DEC-2009 06:39:25	4GamCrv	100	40583
04-DEC-2009 06:41:01	2EpsCrv	171	40583
04-DEC-2009 06:50:26	MuVel	113	40584
04-DEC-2009 06:55:47	DSA1030	0	40584
04-DEC-2009 06:59:07	Gam2Vel	34	40584
04-DEC-2009 07:02:12	AlpCar	2	40584
04-DEC-2009 07:04:18	PiPup	117	40584
04-DEC-2009 07:07:59	21EpsCMa	23	40584
04-DEC-2009 07:14:03	11AlpLep	101	40584

2.4 Summary of processed GOM\_TRA\_1P products

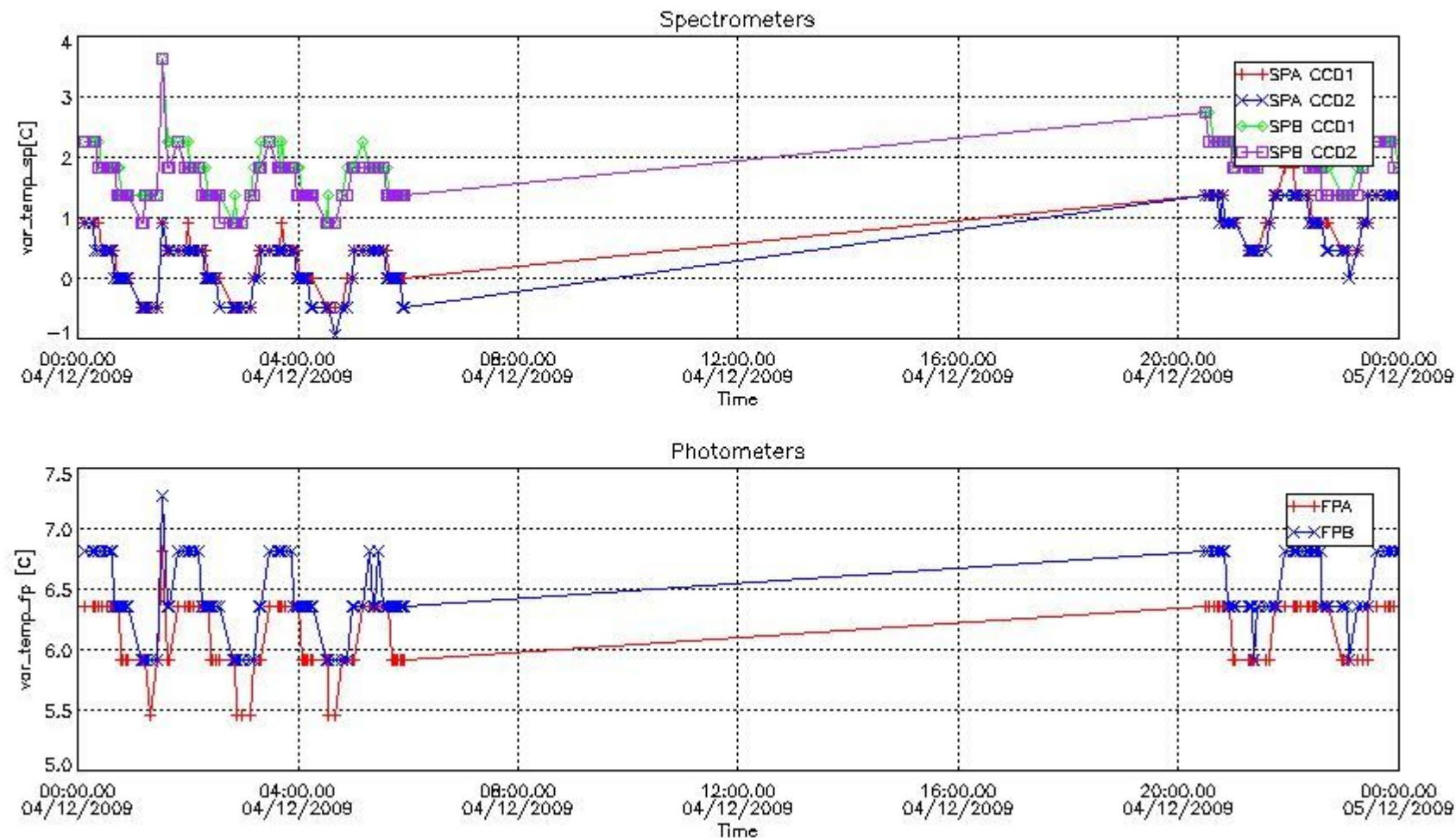
Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20091204_000751_000000472084_00446_40580_6237.N1	04-DEC-2009 00:07:51	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40580	No
2	GOM_TRA_1PNPDE20091204_001632_000000522084_00446_40580_6238.N1	04-DEC-2009 00:16:32	Dark	52.000	34	Gam2Vel	1.7930	23000.	104	40580	No
3	GOM_TRA_1PNPDE20091204_001938_000000572084_00446_40580_6239.N1	04-DEC-2009 00:19:38	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	40580	No
4	GOM_TRA_1PNPDE20091204_002143_000000592084_00446_40580_6240.N1	04-DEC-2009 00:21:43	Dark	58.500	117	Pi Pup	2.7060	3800.0	117	40580	No
5	GOM_TRA_1PNPDE20091204_002525_000000502084_00446_40580_6241.N1	04-DEC-2009 00:25:25	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	40580	No
6	GOM_TRA_1PNPDE20091204_003131_000000532084_00446_40580_6242.N1	04-DEC-2009 00:31:31	Straylight	52.500	101	11Alp Lep	2.5820	7000.0	105	40580	No
7	GOM_TRA_1PNPDE20091204_003459_000000572084_00446_40580_6243.N1	04-DEC-2009 00:34:59	Straylight	56.500	7	19Bet Ori	0.10000	14000.	113	40580	No
8	GOM_TRA_1PNPDE20091204_003748_000000572084_00446_40580_6244.N1	04-DEC-2009 00:37:48	Twilight_and_stray	57.000	30	46Eps Ori	1.6940	30000.	114	40580	No
9	GOM_TRA_1PNPDE20091204_004025_000000572084_00446_40580_6245.N1	04-DEC-2009 00:40:25	Twilight_and_stray	57.000	27	24Gam Ori	1.6360	26000.	114	40580	No
10	GOM_TRA_1PNPDE20091204_004248_000000602084_00446_40580_6246.N1	04-DEC-2009 00:42:48	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40580	No
11	GOM_TRA_1PNPDE20091204_004433_000000382084_00446_40580_6247.N1	04-DEC-2009 00:44:33	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	40580	No
12	GOM_TRA_1PNPDE20091204_004652_000000382084_00446_40580_6248.N1	04-DEC-2009 00:46:52	Bright	37.500	150	44Zet Per	2.8900	28000.	75	40580	No
13	GOM_TRA_1PNPDE20091204_004916_000000382084_00446_40580_6249.N1	04-DEC-2009 00:49:16	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40580	No
14	GOM_TRA_1PNPDE20091204_005251_000000472084_00446_40580_6250.N1	04-DEC-2009 00:52:51	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40580	No
15	GOM_TRA_1PNPDE20091204_005428_000000502084_00446_40580_6251.N1	04-DEC-2009 00:54:28	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40580	No
16	GOM_TRA_1PNPDE20091204_010915_000000502084_00446_40580_6252.N1	04-DEC-2009 01:09:15	Bright	50.000	36	50Alp UMa	1.8000	6300.0	100	40580	No
17	GOM_TRA_1PNPDE20091204_011050_000000462084_00446_40580_6253.N1	04-DEC-2009 01:10:50	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	40580	No
18	GOM_TRA_1PNPDE20091204_011240_000000572084_00446_40580_6254.N1	04-DEC-2009 01:12:40	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	40580	No
19	GOM_TRA_1PNPDE20091204_011820_000000412084_00446_40580_6255.N1	04-DEC-2009 01:18:20	Bright	41.000	152	12Alp2CVn	2.8900	11000.	82	40580	No
20	GOM_TRA_1PNPDE20091204_012707_000000612084_00446_40580_6256.N1	04-DEC-2009 01:27:07	Bright	61.000	138	47Eps Vir	2.8280	4700.0	122	40580	No
21	GOM_TRA_1PNPDE20091204_013136_000000462084_00446_40580_6251.N1	04-DEC-2009 01:31:36	Bright	45.500	121	29Gam Vir	2.7400	7200.0	91	40580	Yes
22	GOM_TRA_1PNPDE20091204_013726_000000512084_00446_40580_6252.N1	04-DEC-2009 01:37:26	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	40580	No
23	GOM_TRA_1PNPDE20091204_013903_000000522084_00446_40580_6253.N1	04-DEC-2009 01:39:03	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40580	No
24	GOM_TRA_1PNPDE20091204_014828_000000492084_00447_40581_6254.N1	04-DEC-2009 01:48:28	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	40581	No
25	GOM_TRA_1PNPDE20091204_015709_000000502084_00447_40581_6255.N1	04-DEC-2009 01:57:09	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40581	No
26	GOM_TRA_1PNPDE20091204_020015_000000452084_00447_40581_6256.N1	04-DEC-2009 02:00:15	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	40581	No
27	GOM_TRA_1PNPDE20091204_020220_000000552084_00447_40581_6257.N1	04-DEC-2009 02:02:20	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	40581	No
28	GOM_TRA_1PNPDE20091204_020602_000000502084_00447_40581_6258.N1	04-DEC-2009 02:06:02	Dark	50.000	23	21Eps CMa	1.5020	26000.	100	40581	No
29	GOM_TRA_1PNPDE20091204_021207_000000522084_00447_40581_6259.N1	04-DEC-2009 02:12:07	Straylight	52.000	101	11Alp Lep	2.5820	7000.0	104	40581	No
30	GOM_TRA_1PNPDE20091204_021535_000000562084_00447_40581_6260.N1	04-DEC-2009 02:15:35	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	40581	No
31	GOM_TRA_1PNPDE20091204_021824_000000612084_00447_40581_6261.N1	04-DEC-2009 02:18:24	Twilight_and_stray	60.500	30	46Eps Ori	1.6940	30000.	121	40581	No
32	GOM_TRA_1PNPDE20091204_022101_000000592084_00447_40581_6262.N1	04-DEC-2009 02:21:01	Twilight_and_stray	58.500	27	24Gam Ori	1.6360	26000.	117	40581	No
33	GOM_TRA_1PNPDE20091204_022324_000000602084_00447_40581_6263.N1	04-DEC-2009 02:23:24	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40581	No
34	GOM_TRA_1PNPDE20091204_022508_000000382084_00447_40581_6264.N1	04-DEC-2009 02:25:08	Bright	38.000	146	25Eta Tau	2.8730	15200.	76	40581	No
35	GOM_TRA_1PNPDE20091204_022727_000000402084_00447_40581_6265.N1	04-DEC-2009 02:27:27	Bright	40.000	150	44Zet Per	2.8900	28000.	80	40581	No
36	GOM_TRA_1PNPDE20091204_022951_000000372084_00447_40581_6266.N1	04-DEC-2009 02:29:51	Bright	37.000	149	45Eps Per	2.8880	30000.	74	40581	No
37	GOM_TRA_1PNPDE20091204_023326_000000492084_00447_40581_6267.N1	04-DEC-2009 02:33:26	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	40581	No
38	GOM_TRA_1PNPDE20091204_023503_000000492084_00447_40581_6268.N1	04-DEC-2009 02:35:03	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	40581	No
39	GOM_TRA_1PNPDE20091204_024951_000000492084_00447_40581_6269.N1	04-DEC-2009 02:49:51	Bright	49.000	36	50Alp UMa	1.8000	6300.0	98	40581	No
40	GOM_TRA_1PNPDE20091204_025126_000000482084_00447_40581_6275.N1	04-DEC-2009 02:51:26	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40581	No
41	GOM_TRA_1PNPDE20091204_025316_000000572084_00447_40581_6276.N1	04-DEC-2009 02:53:16	Bright	57.000	32	77Eps UMa	1.7630	11000.	114	40581	No
42	GOM_TRA_1PNPDE20091204_025856_000000402084_00447_40581_6277.N1	04-DEC-2009 02:58:56	Bright	39.500	152	12Alp2CVn	2.8900	11000.	79	40581	No
43	GOM_TRA_1PNPDE20091204_030743_000000402084_00447_40581_6278.N1	04-DEC-2009 03:07:43	Bright	40.000	138	47Eps Vir	2.8280	4700.0	80	40581	No
44	GOM_TRA_1PNPDE20091204_031213_000000462084_00447_40581_6279.N1	04-DEC-2009 03:12:13	Bright	45.500	121	29Gam Vir	2.7400	7200.0	91	40581	No
45	GOM_TRA_1PNPDE20091204_031803_000000472084_00447_40581_6280.N1	04-DEC-2009 03:18:03	Dark	46.500	100	4Gam Crv	2.5800	13100.	93	40581	No
46	GOM_TRA_1PNPDE20091204_031939_000000532084_00447_40581_6281.N1	04-DEC-2009 03:19:39	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	40581	No
47	GOM_TRA_1PNPDE20091204_032905_000000442084_00448_40582_6282.N1	04-DEC-2009 03:29:05	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40582	No
48	GOM_TRA_1PNPDE20091204_033745_000000482084_00448_40582_6283.N1	04-DEC-2009 03:37:45	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40582	No
49	GOM_TRA_1PNPDE20091204_034051_000000472084_00448_40582_6284.N1	04-DEC-2009 03:40:51	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40582	No
50	GOM_TRA_1PNPDE20091204_034257_000000622084_00448_40582_6285.N1	04-DEC-2009 03:42:57	Dark	61.500	117	Pi Pup	2.7060	3800.0	123	40582	No
51	GOM_TRA_1PNPDE20091204_034638_000000542084_00448_40582_6286.N1	04-DEC-2009 03:46:38	Dark	54.000	23	21Eps CMa	1.5020	26000.	108	40582	No
52	GOM_TRA_1PNPDE20091204_035244_000000522084_00448_40582_6287.N1	04-DEC-2009 03:52:44	Straylight	51.500	101	11Alp Lep	2.5820	7000.0	103	40582	No
53	GOM_TRA_1PNPDE20091204_035611_000000552084_00448_40582_6288.N1	04-DEC-2009 03:56:11	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	40582	No
54	GOM_TRA_1PNPDE20091204_035859_000000592084_00448_40582_6289.N1	04-DEC-2009 03:58:59	Twilight_and_stray	58.500	30	46Eps Ori	1.6940	30000.	117	40582	No

55	GOM_TRA_1PNPDE20091204_040137_000000592084_00448_40582_6290.N1	04-DEC-2009 04:01:37	Tw_i_and_stray	58.500	27	24Gam Ori	1.6360	26000.	117	40582	No
56	GOM_TRA_1PNPDE20091204_040400_000000602084_00448_40582_6291.N1	04-DEC-2009 04:04:00	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40582	No
57	GOM_TRA_1PNPDE20091204_040544_000000392084_00448_40582_6292.N1	04-DEC-2009 04:05:44	Bright	38.500	146	25Eta Tau	2.8730	15200.	77	40582	No
58	GOM_TRA_1PNPDE20091204_040803_000000392084_00448_40582_6293.N1	04-DEC-2009 04:08:03	Bright	39.000	150	44Zet Per	2.8900	28000.	78	40582	No
59	GOM_TRA_1PNPDE20091204_041027_000000382084_00448_40582_6294.N1	04-DEC-2009 04:10:27	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40582	No
60	GOM_TRA_1PNPDE20091204_041402_000000472084_00448_40582_6295.N1	04-DEC-2009 04:14:02	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	40582	No
61	GOM_TRA_1PNPDE20091204_041538_000000492084_00448_40582_6296.N1	04-DEC-2009 04:15:38	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	40582	No
62	GOM_TRA_1PNPDE20091204_043026_000000472084_00448_40582_6294.N1	04-DEC-2009 04:30:26	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40582	No
63	GOM_TRA_1PNPDE20091204_043201_000000472084_00448_40582_6295.N1	04-DEC-2009 04:32:01	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	40582	No
64	GOM_TRA_1PNPDE20091204_043352_000000422084_00448_40582_6296.N1	04-DEC-2009 04:33:52	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40582	No
65	GOM_TRA_1PNPDE20091204_043932_000000382084_00448_40582_6297.N1	04-DEC-2009 04:39:32	Bright	38.000	152	12Alp2CVn	2.8900	11000.	76	40582	No
66	GOM_TRA_1PNPDE20091204_044819_000000402084_00448_40582_6298.N1	04-DEC-2009 04:48:19	Bright	39.500	138	47Eps Vir	2.8280	4700.0	79	40582	No
67	GOM_TRA_1PNPDE20091204_045250_000000482084_00448_40582_6299.N1	04-DEC-2009 04:52:50	Bright	48.000	121	29Gam Vir	2.7400	7200.0	96	40582	No
68	GOM_TRA_1PNPDE20091204_045840_000000522084_00448_40582_6300.N1	04-DEC-2009 04:58:40	Dark	51.500	100	4Gam Crv	2.5800	13100.	103	40582	No
69	GOM_TRA_1PNPDE20091204_050016_000000532084_00448_40582_6301.N1	04-DEC-2009 05:00:16	Dark	53.000	171	2Eps Crv	3.0010	4250.0	106	40582	No
70	GOM_TRA_1PNPDE20091204_050942_000000442084_00449_40583_6302.N1	04-DEC-2009 05:09:42	Dark	44.000	113	Mu Vel	2.6920	5000.0	88	40583	No
71	GOM_TRA_1PNPDE20091204_051822_000000472084_00449_40583_6303.N1	04-DEC-2009 05:18:22	Dark	46.500	34	Gam2Vel	1.7930	23000.	93	40583	No
72	GOM_TRA_1PNPDE20091204_052128_000000532084_00449_40583_6304.N1	04-DEC-2009 05:21:28	Dark	52.500	2	Alp Car	-0.73600	7000.0	105	40583	No
73	GOM_TRA_1PNPDE20091204_052334_000000572084_00449_40583_6305.N1	04-DEC-2009 05:23:34	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	40583	No
74	GOM_TRA_1PNPDE20091204_052715_000000542084_00449_40583_6306.N1	04-DEC-2009 05:27:15	Dark	54.000	23	21Eps CMa	1.5020	26000.	108	40583	No
75	GOM_TRA_1PNPDE20091204_053319_000000502084_00449_40583_6307.N1	04-DEC-2009 05:33:19	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	40583	No
76	GOM_TRA_1PNPDE20091204_053647_000000552084_00449_40583_6308.N1	04-DEC-2009 05:36:47	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	40583	No
77	GOM_TRA_1PNPDE20091204_053935_000000592084_00449_40583_6309.N1	04-DEC-2009 05:39:35	Tw_i_and_stray	59.000	30	46Eps Ori	1.6940	30000.	118	40583	No
78	GOM_TRA_1PNPDE20091204_054212_000000562084_00449_40583_6310.N1	04-DEC-2009 05:42:12	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40583	No
79	GOM_TRA_1PNPDE20091204_054435_000000592084_00449_40583_6311.N1	04-DEC-2009 05:44:35	Bright	58.500	13	87Alp Tau	0.86700	3800.0	117	40583	No
80	GOM_TRA_1PNPDE20091204_054620_000000392084_00449_40583_6312.N1	04-DEC-2009 05:46:20	Bright	39.000	146	25Eta Tau	2.8730	15200.	78	40583	No
81	GOM_TRA_1PNPDE20091204_054839_000000382084_00449_40583_6313.N1	04-DEC-2009 05:48:39	Bright	37.500	150	44Zet Per	2.8900	28000.	75	40583	No
82	GOM_TRA_1PNPDE20091204_055103_000000382084_00449_40583_6314.N1	04-DEC-2009 05:51:03	Bright	37.500	149	45Eps Per	2.8880	30000.	75	40583	No
83	GOM_TRA_1PNPDE20091204_055437_000000482084_00449_40583_6315.N1	04-DEC-2009 05:54:37	Bright	47.500	6	13Alp Aur	0.080000	3400.0	95	40583	No
84	GOM_TRA_1PNPDE20091204_055613_000000492084_00449_40583_6316.N1	04-DEC-2009 05:56:13	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	40583	No
85	GOM_TRA_1PNPDE20091204_202904_000000572084_00458_40592_6382.N1	04-DEC-2009 20:29:04	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	40592	No
86	GOM_TRA_1PNPDE20091204_203244_000000642084_00458_40592_6383.N1	04-DEC-2009 20:32:44	Dark	63.500	23	21Eps CMa	1.5020	26000.	127	40592	No
87	GOM_TRA_1PNPDE20091204_203844_000000532084_00458_40592_6384.N1	04-DEC-2009 20:38:44	Straylight	53.000	101	11Alp Lep	2.5820	7000.0	106	40592	No
88	GOM_TRA_1PNPDE20091204_204210_000000552084_00458_40592_6385.N1	04-DEC-2009 20:42:10	Straylight	55.000	7	19Bet Ori	0.10000	14000.	110	40592	No
89	GOM_TRA_1PNPDE20091204_204456_000000602084_00458_40592_6386.N1	04-DEC-2009 20:44:56	Tw_i_and_stray	59.500	30	46Eps Ori	1.6940	30000.	119	40592	No
90	GOM_TRA_1PNPDE20091204_204732_000000582084_00458_40592_6387.N1	04-DEC-2009 20:47:32	Tw_i_and_stray	57.500	27	24Gam Ori	1.6360	26000.	115	40592	No
91	GOM_TRA_1PNPDE20091204_204956_000000602084_00458_40592_6388.N1	04-DEC-2009 20:49:56	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40592	No
92	GOM_TRA_1PNPDE20091204_205401_000000382084_00458_40592_6389.N1	04-DEC-2009 20:54:01	Bright	37.500	150	44Zet Per	2.8900	28000.	75	40592	No
93	GOM_TRA_1PNPDE20091204_205536_000000442084_00458_40592_6390.N1	04-DEC-2009 20:55:36	Bright	44.000	114	3lot Aur	2.6930	4600.0	88	40592	No
94	GOM_TRA_1PNPDE20091204_205955_000000462084_00458_40592_6391.N1	04-DEC-2009 20:59:55	Bright	45.500	6	13Alp Aur	0.080000	3400.0	91	40592	No
95	GOM_TRA_1PNPDE20091204_210129_000000502084_00458_40592_6392.N1	04-DEC-2009 21:01:29	Bright	50.000	42	34Bet Aur	1.9000	10200.	100	40592	No
96	GOM_TRA_1PNPDE20091204_211622_000000472084_00458_40592_6393.N1	04-DEC-2009 21:16:22	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40592	No
97	GOM_TRA_1PNPDE20091204_211756_000000512084_00458_40592_6394.N1	04-DEC-2009 21:17:56	Bright	50.500	82	48Bet UMa	2.3650	10600.	101	40592	No
98	GOM_TRA_1PNPDE20091204_211950_000000432084_00458_40592_6395.N1	04-DEC-2009 21:19:50	Bright	43.000	32	77Eps UMa	1.7630	11000.	86	40592	No
99	GOM_TRA_1PNPDE20091204_212201_000000392084_00458_40592_6396.N1	04-DEC-2009 21:22:01	Bright	39.000	39	85Eta UMa	1.8540	24000.	78	40592	No
100	GOM_TRA_1PNPDE20091204_212532_000000392084_00458_40592_6397.N1	04-DEC-2009 21:25:32	Bright	39.000	152	12Alp2CVn	2.8900	11000.	78	40592	No
101	GOM_TRA_1PNPDE20091204_213423_000000612084_00458_40592_6398.N1	04-DEC-2009 21:34:23	Bright	61.000	138	47Eps Vir	2.8280	4700.0	122	40592	No
102	GOM_TRA_1PNPDE20091204_213856_000000452084_00458_40592_6399.N1	04-DEC-2009 21:38:56	Bright	44.500	121	29Gam Vir	2.7400	7200.0	89	40592	No
103	GOM_TRA_1PNPDE20091204_214449_000000492084_00458_40592_6401.N1	04-DEC-2009 21:44:49	Dark	49.000	100	4Gam Crv	2.5800	13100.	98	40592	No
104	GOM_TRA_1PNPDE20091204_214625_000000532084_00458_40592_6402.N1	04-DEC-2009 21:46:25	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	40592	No
105	GOM_TRA_1PNPDE20091204_215549_000000472084_00459_40593_6403.N1	04-DEC-2009 21:55:49	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40593	No
106	GOM_TRA_1PNPDE20091204_220430_000000482084_00459_40593_6404.N1	04-DEC-2009 22:04:30	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40593	No
107	GOM_TRA_1PNPDE20091204_220732_000000492084_00459_40593_6405.N1	04-DEC-2009 22:07:32	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40593	No
108	GOM_TRA_1PNPDE20091204_220940_000000632084_00459_40593_6406.N1	04-DEC-2009 22:09:40	Dark	62.500	117	Pi Pup	2.7060	3800.0	125	40593	No
109	GOM_TRA_1PNPDE20091204_221320_000000622084_00459_40593_6407.N1	04-DEC-2009 22:13:20	Dark	61.500	23	21Eps CMa	1.5020	26000.	123	40593	No
110	GOM_TRA_1PNPDE20091204_221920_000000522084_00459_40593_6408.N1	04-DEC-2009 22:19:20	Straylight	52.000	101	11Alp Lep	2.5820	7000.0	104	40593	No
111	GOM_TRA_1PNPDE20091204_222246_000000542084_00459_40593_6409.N1	04-DEC-2009 22:22:46	Straylight	53.500	7	19Bet Ori	0.10000	14000.	107	40593	No
112	GOM_TRA_1PNPDE20091204_222531_000000592084_00459_40593_6410.N1	04-DEC-2009 22:25:31	Tw_i_and_stray	58.500	30	46Eps Ori	1.6940	30000.	117	40593	No
113	GOM_TRA_1PNPDE20091204_222807_000000572084_00459_40593_6411.N1	04-DEC-2009 22:28:07	Tw_i_and_stray	57.000	27	24Gam Ori	1.6360	26000.	114	40593	No



114	GOM_TRA_1PNPDE20091204_223032_000000602084_00459_40593_6412.N1	04-DEC-2009 22:30:32	Bright	60.000	13	87Alp Tau	0.86700	3800.0	120	40593	No
115	GOM_TRA_1PNPDE20091204_223437_000000382084_00459_40593_6413.N1	04-DEC-2009 22:34:37	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40593	No
116	GOM_TRA_1PNPDE20091204_223611_000000452084_00459_40593_6414.N1	04-DEC-2009 22:36:11	Bright	45.000	114	3Iot Aur	2.6930	4600.0	90	40593	No
117	GOM_TRA_1PNPDE20091204_224030_000000612084_00459_40593_6415.N1	04-DEC-2009 22:40:30	Bright	61.000	6	13Alp Aur	0.080000	3400.0	122	40593	No
118	GOM_TRA_1PNPDE20091204_224204_000000472084_00459_40593_6416.N1	04-DEC-2009 22:42:04	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	40593	No
119	GOM_TRA_1PNPDE20091204_225657_000000462084_00459_40593_6417.N1	04-DEC-2009 22:56:57	Bright	46.000	36	50Alp UMa	1.8000	6300.0	92	40593	No
120	GOM_TRA_1PNPDE20091204_225832_000000572084_00459_40593_6418.N1	04-DEC-2009 22:58:32	Bright	56.500	82	48Bet UMa	2.3650	10600.	113	40593	No
121	GOM_TRA_1PNPDE20091204_230026_000000402084_00459_40593_6419.N1	04-DEC-2009 23:00:26	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	40593	No
122	GOM_TRA_1PNPDE20091204_230237_000000382084_00459_40593_6420.N1	04-DEC-2009 23:02:37	Bright	38.000	39	85Eta UMa	1.8540	24000.	76	40593	No
123	GOM_TRA_1PNPDE20091204_230608_000000412084_00459_40593_6421.N1	04-DEC-2009 23:06:08	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	40593	No
124	GOM_TRA_1PNPDE20091204_231459_000000512084_00459_40593_6422.N1	04-DEC-2009 23:14:59	Bright	50.500	138	47Eps Vir	2.8280	4700.0	101	40593	No
125	GOM_TRA_1PNPDE20091204_231932_000000482084_00459_40593_6423.N1	04-DEC-2009 23:19:32	Bright	47.500	121	29Gam Vir	2.7400	7200.0	95	40593	No
126	GOM_TRA_1PNPDE20091204_232525_000000512084_00459_40593_6420.N1	04-DEC-2009 23:25:25	Dark	51.000	100	4Gam Crv	2.5800	13100.	102	40593	No
127	GOM_TRA_1PNPDE20091204_232701_000000512084_00459_40593_6421.N1	04-DEC-2009 23:27:01	Dark	50.500	171	2Eps Crv	3.0010	4250.0	101	40593	No
128	GOM_TRA_1PNPDE20091204_233626_000000542084_00460_40594_6422.N1	04-DEC-2009 23:36:26	Dark	53.500	113	Mu Vel	2.6920	5000.0	107	40594	No
129	GOM_TRA_1PNPDE20091204_234507_000000492084_00460_40594_6423.N1	04-DEC-2009 23:45:07	Dark	49.000	34	Gam2Vel	1.7930	23000.	98	40594	No
130	GOM_TRA_1PNPDE20091204_234808_000000572084_00460_40594_6424.N1	04-DEC-2009 23:48:08	Dark	57.000	2	Alp Car	-0.73600	7000.0	114	40594	No
131	GOM_TRA_1PNPDE20091204_235017_000000572084_00460_40594_6425.N1	04-DEC-2009 23:50:17	Dark	56.500	117	Pi Pup	2.7060	3800.0	113	40594	No
132	GOM_TRA_1PNPDE20091204_235356_000000652084_00460_40594_6426.N1	04-DEC-2009 23:53:56	Dark	64.500	23	21Eps CMa	1.5020	26000.	129	40594	No
133	GOM_TRA_1PNPDE20091204_235956_000000522084_00460_40594_6427.N1	04-DEC-2009 23:59:56	Straylight	51.500	101	11Alp Lep	2.5820	7000.0	103	40594	No

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



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

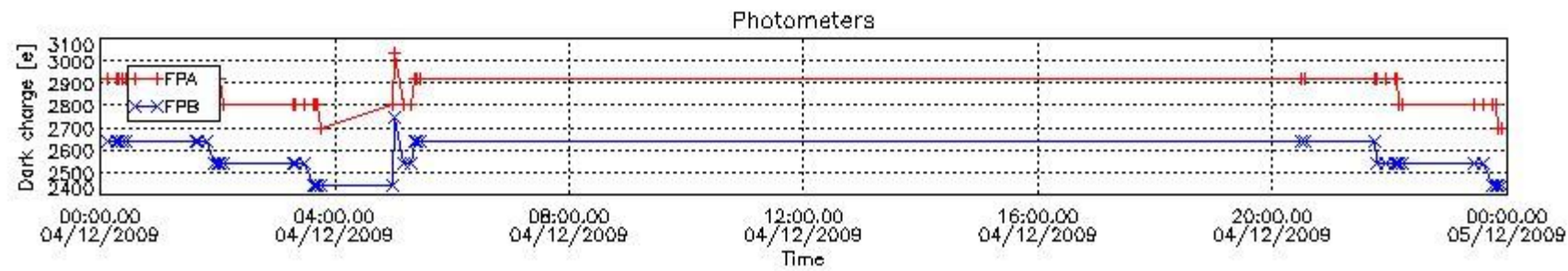
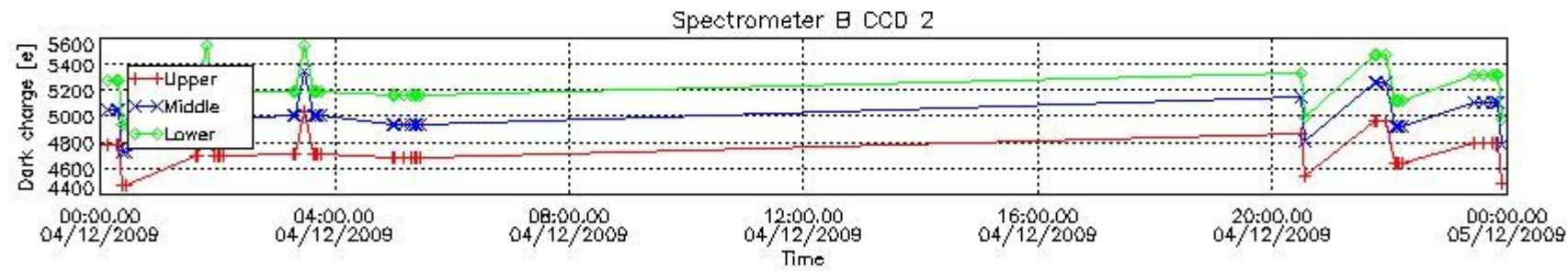
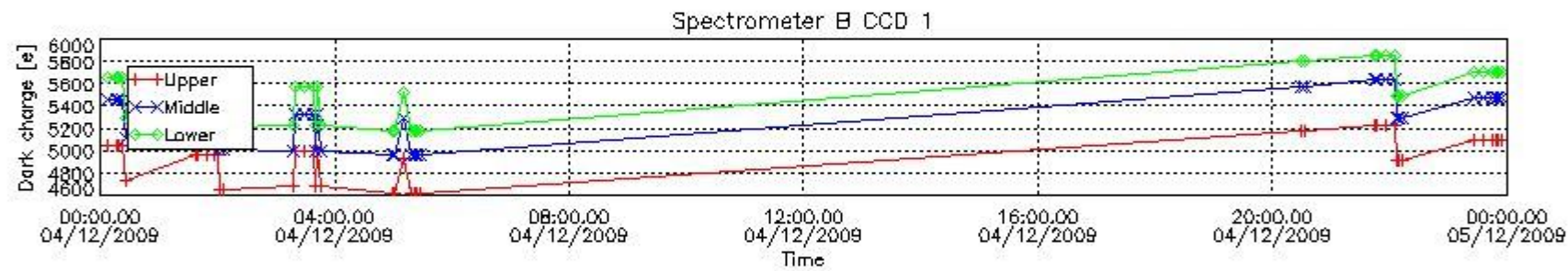
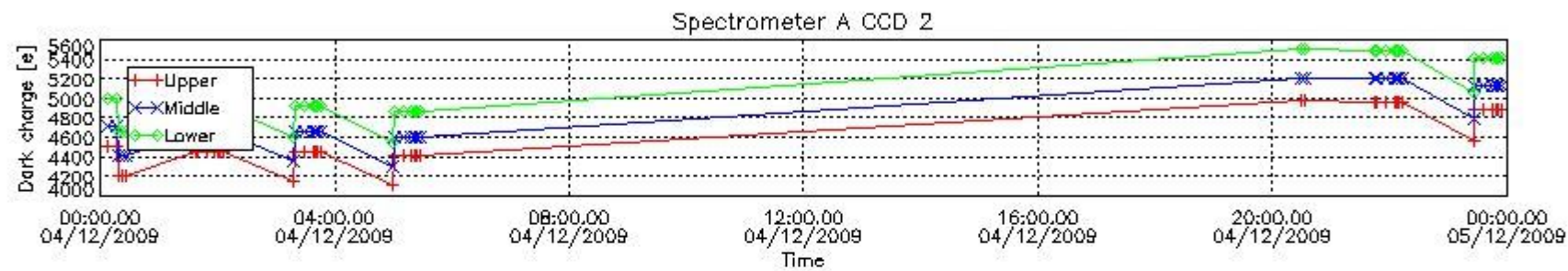
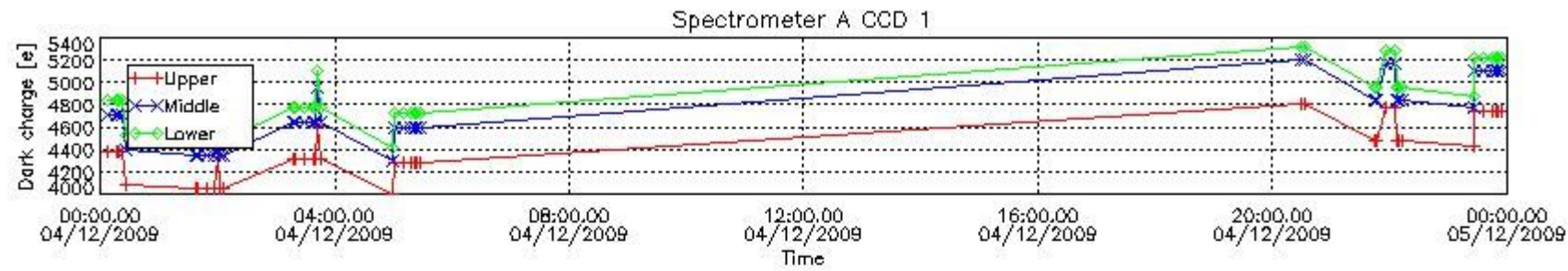
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20091204_202904_000000572084_00458_40592_6382.N1	DC map used
GOM_TRA_1PNPDE20091204_203244_000000642084_00458_40592_6383.N1	DC map used
GOM_TRA_1PNPDE20091204_203844_000000532084_00458_40592_6384.N1	DC map used
GOM_TRA_1PNPDE20091204_204210_000000552084_00458_40592_6385.N1	DC map used
GOM_TRA_1PNPDE20091204_204456_000000602084_00458_40592_6386.N1	DC map used
GOM_TRA_1PNPDE20091204_204732_000000582084_00458_40592_6387.N1	DC map used
GOM_TRA_1PNPDE20091204_204956_000000602084_00458_40592_6388.N1	DC map used
GOM_TRA_1PNPDE20091204_205401_000000382084_00458_40592_6389.N1	DC map used
GOM_TRA_1PNPDE20091204_205536_000000442084_00458_40592_6390.N1	DC map used
GOM_TRA_1PNPDE20091204_205955_000000462084_00458_40592_6391.N1	DC map used
GOM_TRA_1PNPDE20091204_210129_000000502084_00458_40592_6392.N1	DC map used
GOM_TRA_1PNPDE20091204_211622_000000472084_00458_40592_6393.N1	DC map used
GOM_TRA_1PNPDE20091204_211756_000000512084_00458_40592_6394.N1	DC map used
GOM_TRA_1PNPDE20091204_211950_000000432084_00458_40592_6395.N1	DC map used
GOM_TRA_1PNPDE20091204_212201_000000392084_00458_40592_6396.N1	DC map used
GOM_TRA_1PNPDE20091204_212532_000000392084_00458_40592_6397.N1	DC map used
GOM_TRA_1PNPDE20091204_213423_000000612084_00458_40592_6398.N1	DC map used
GOM_TRA_1PNPDE20091204_213856_000000452084_00458_40592_6399.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

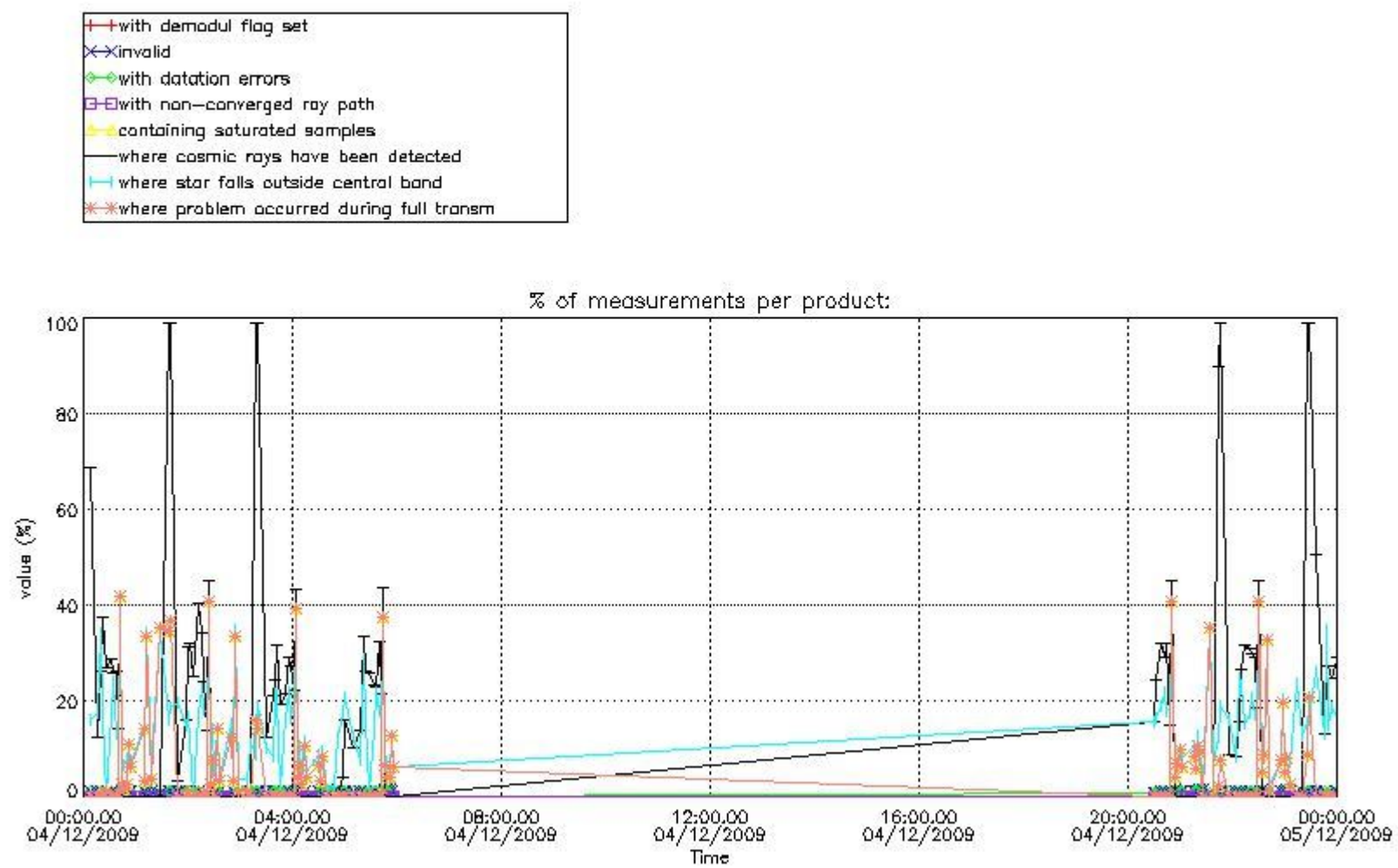
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:



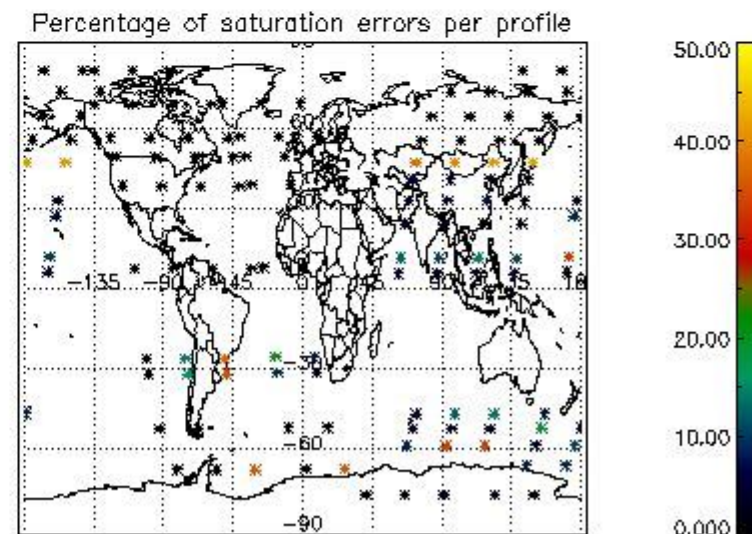
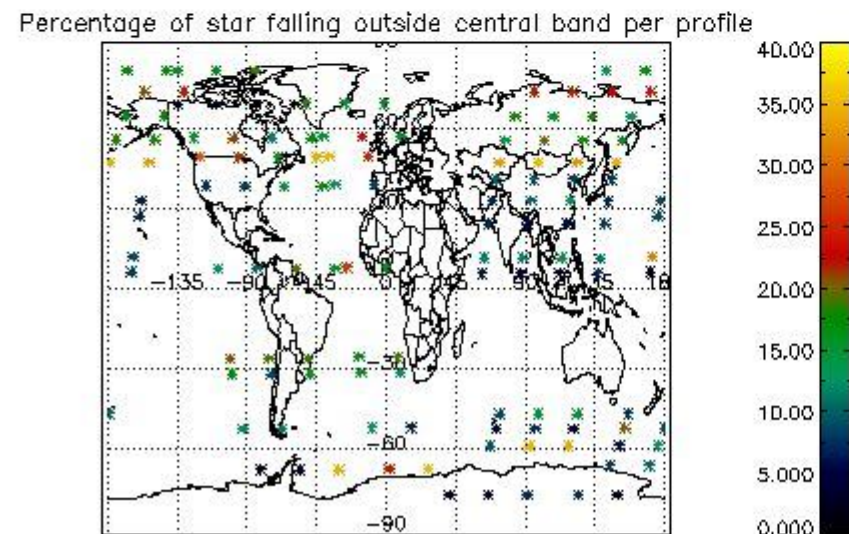
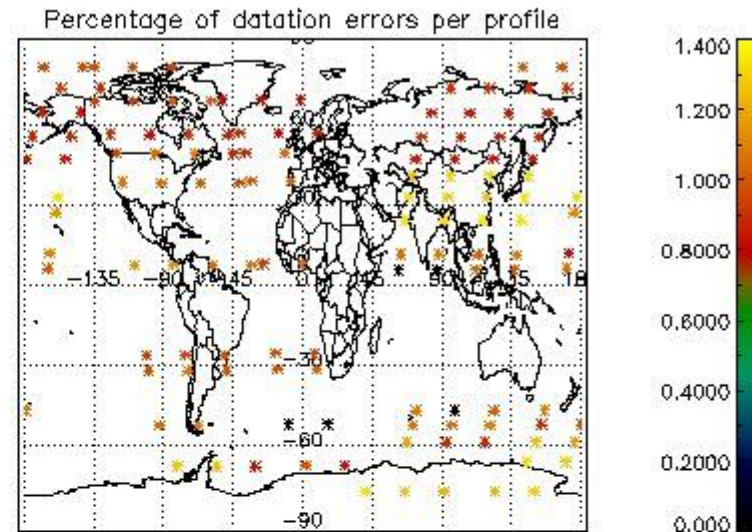
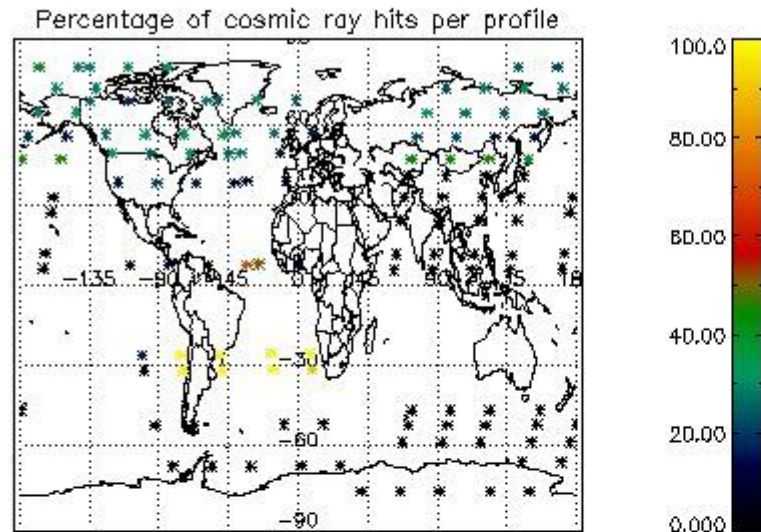
At least one measurement with demodulation flag set:	45.4545 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





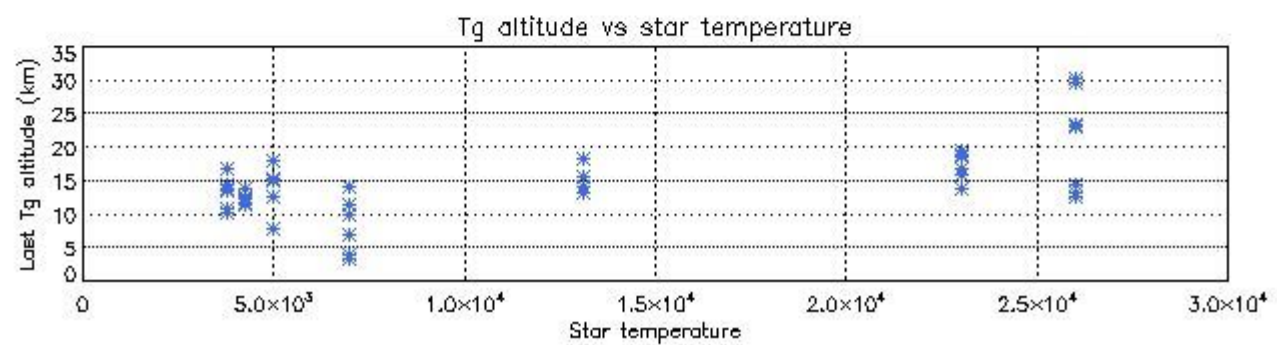
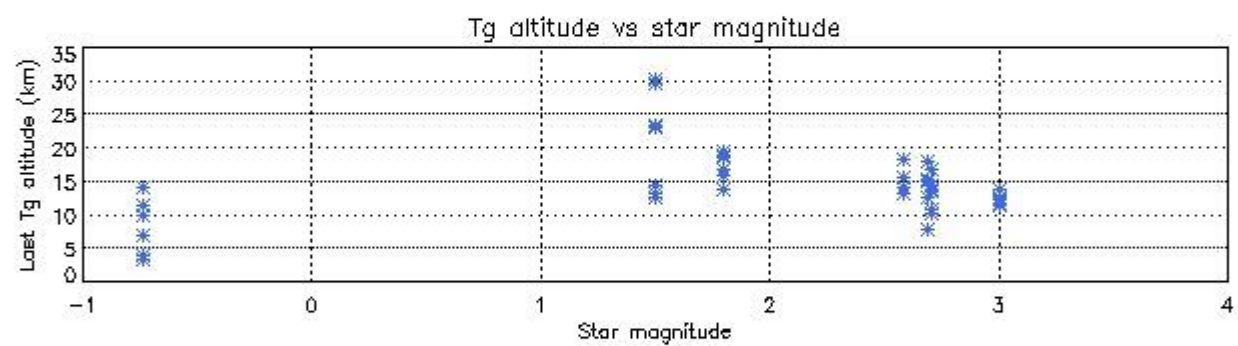
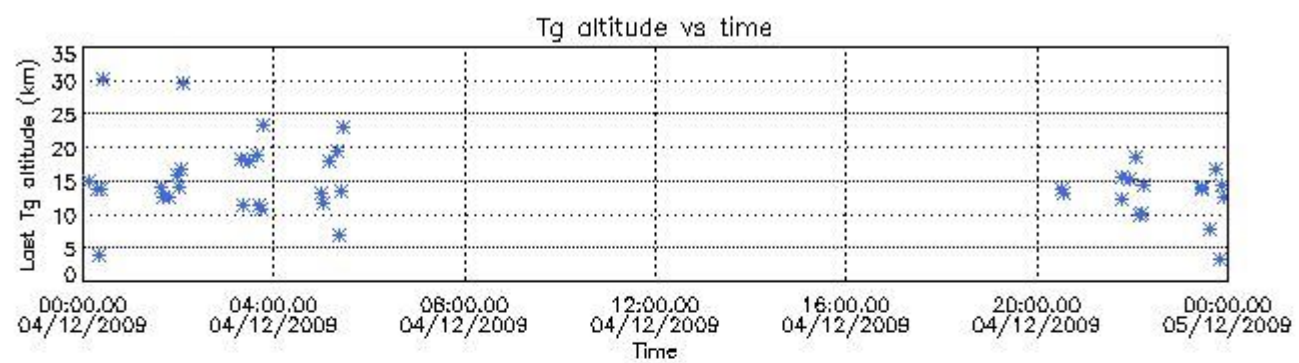
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.660	16.895	NaN
St. deviation:	5.3619	6.3321	NaN
Maximum:	30.191	26.278	NaN
Minimum:	3.4220	3.7181	NaN
Number of data:	42.000	65.000	NaN

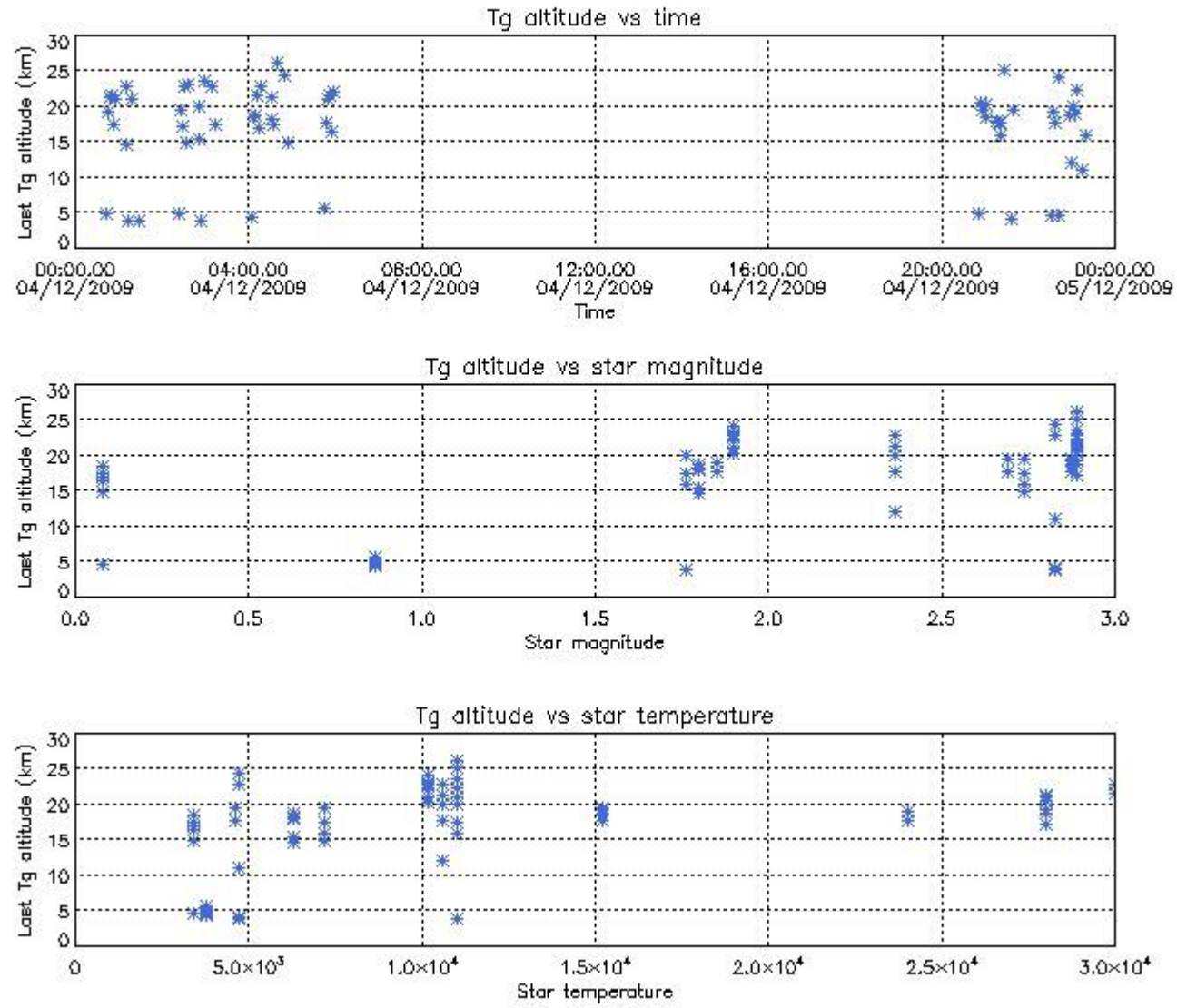
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



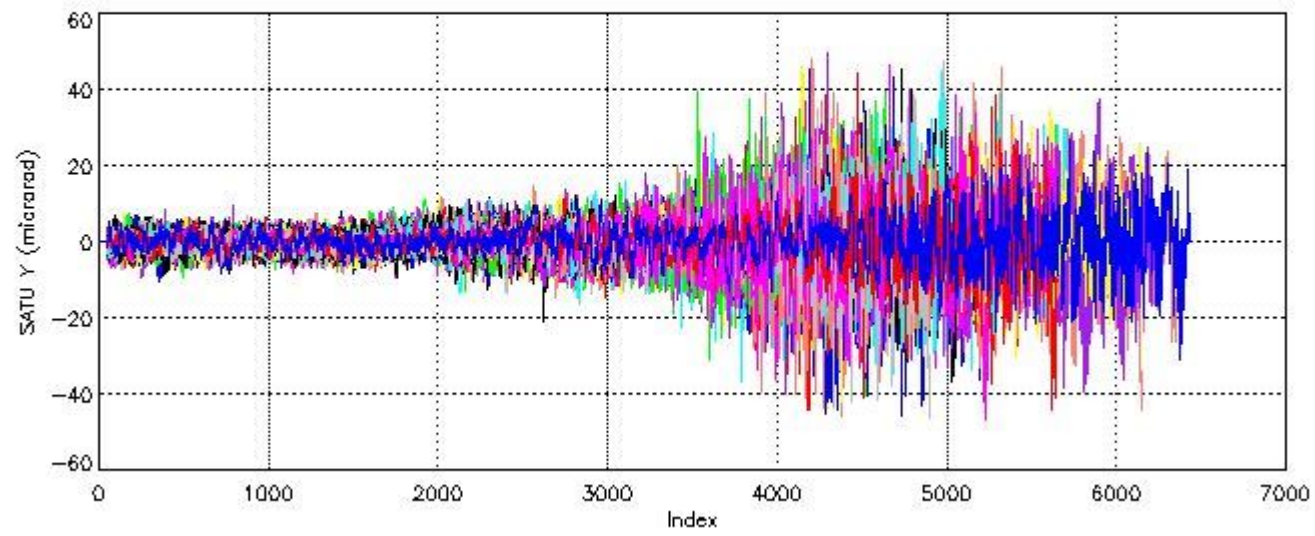
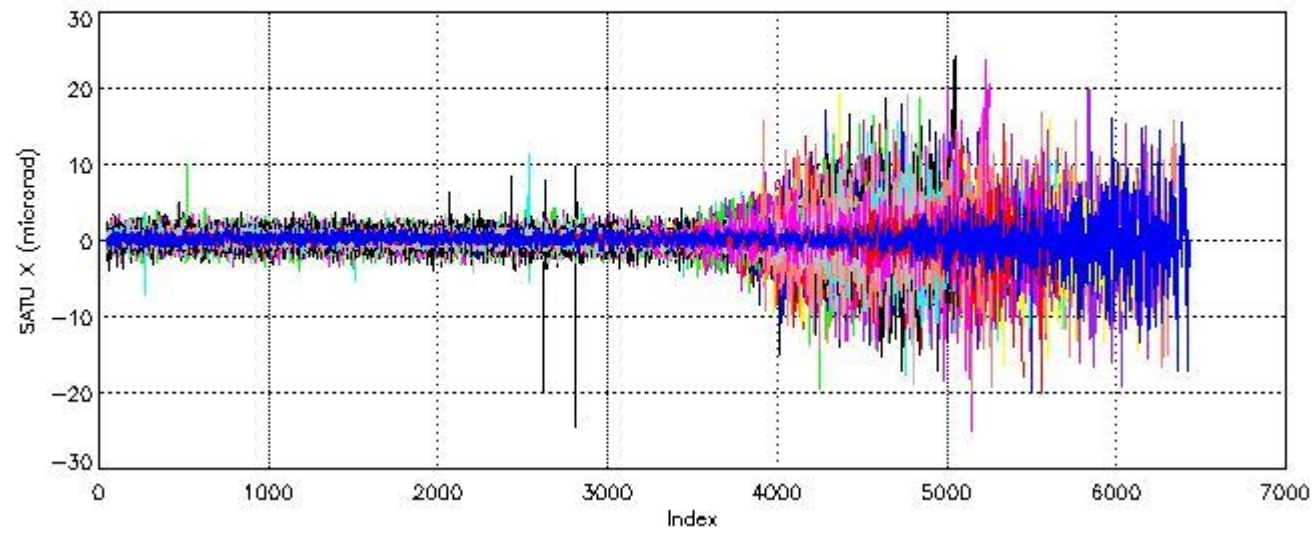
## 7. Star Acquisition and Tracking Unit (SATU)

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

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

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





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

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

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

### 7.2.1 SATU NEA Statistics (table)

Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	0.25540	-0.22938	0.20957	-0.29632
St. deviation:	0.55071	2.0098	0.88038	2.3419
Maximum:	10.100	9.7000	6.7000	10.300
Minimum:	-7.2000	-10.600	-6.4000	-12.000

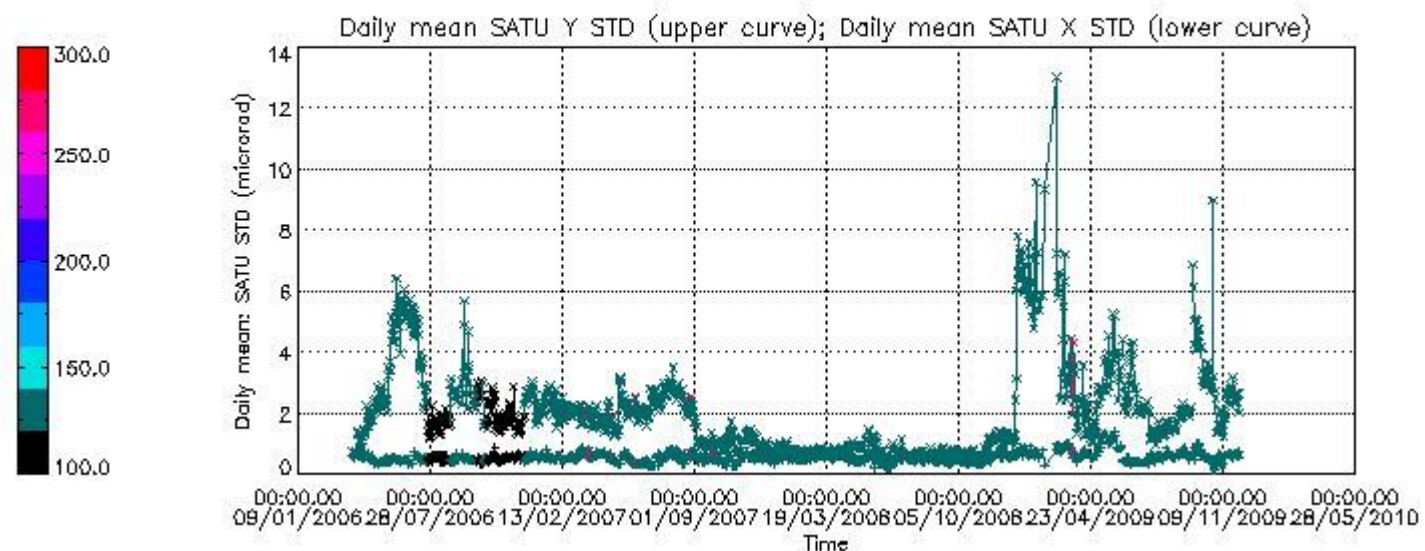
Number of data:	46550.	46550.	64900.	64900.
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### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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



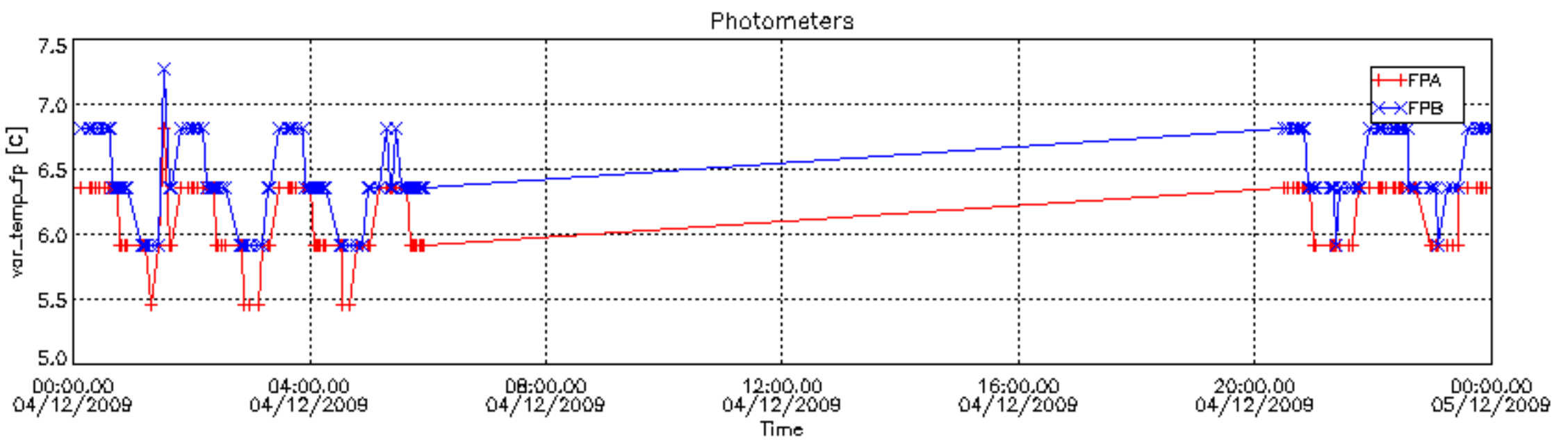
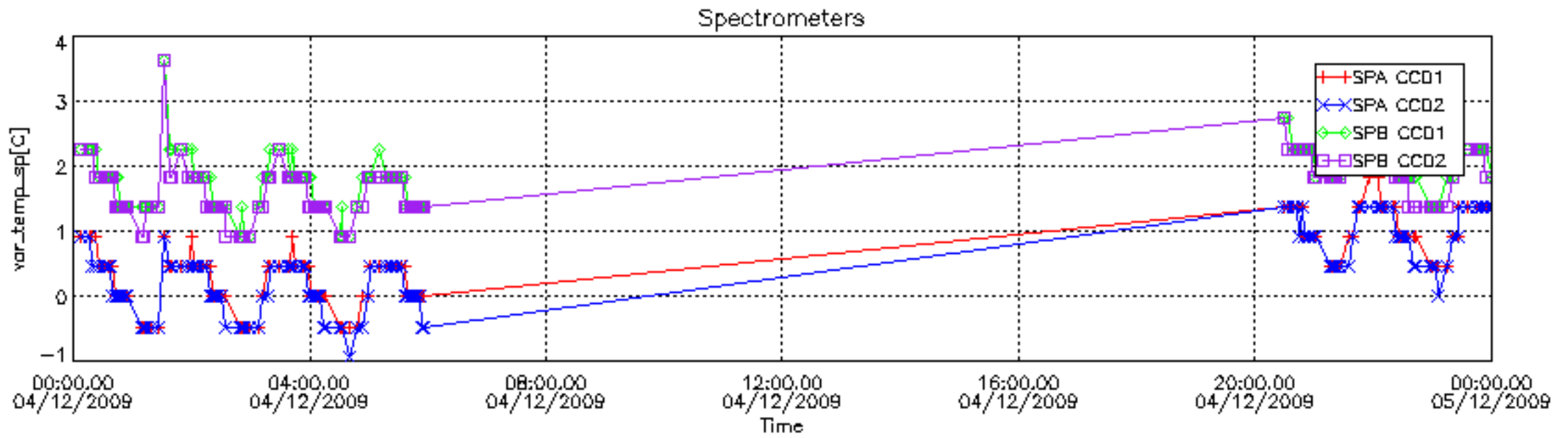
### 8. Auxiliary Data Files used for the production reported in section 2.4

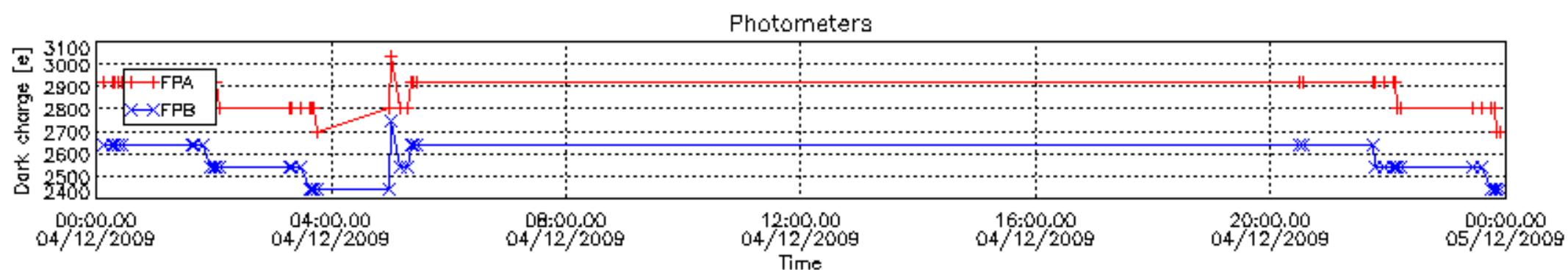
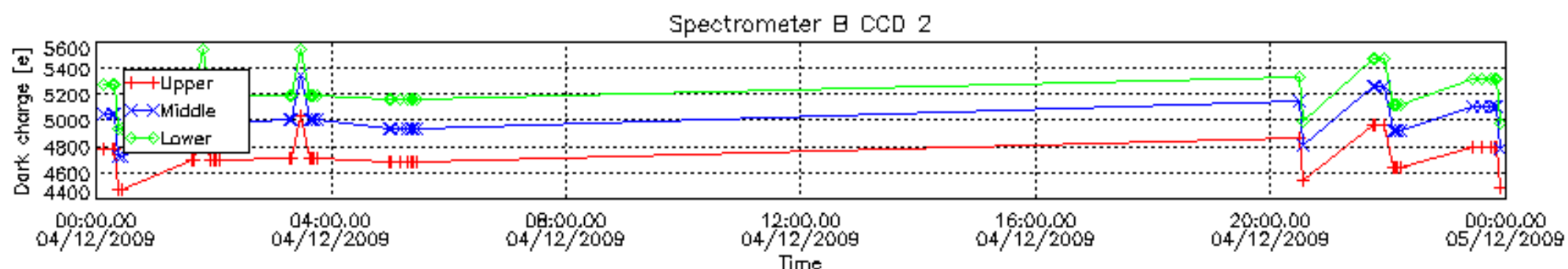
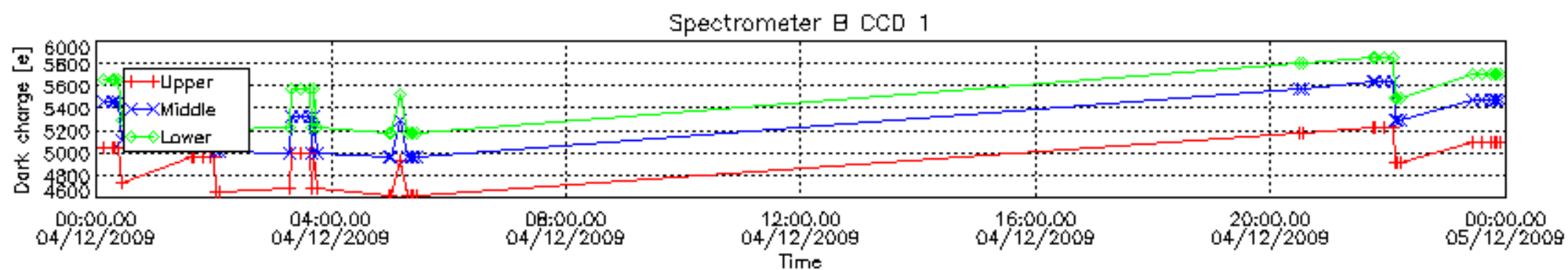
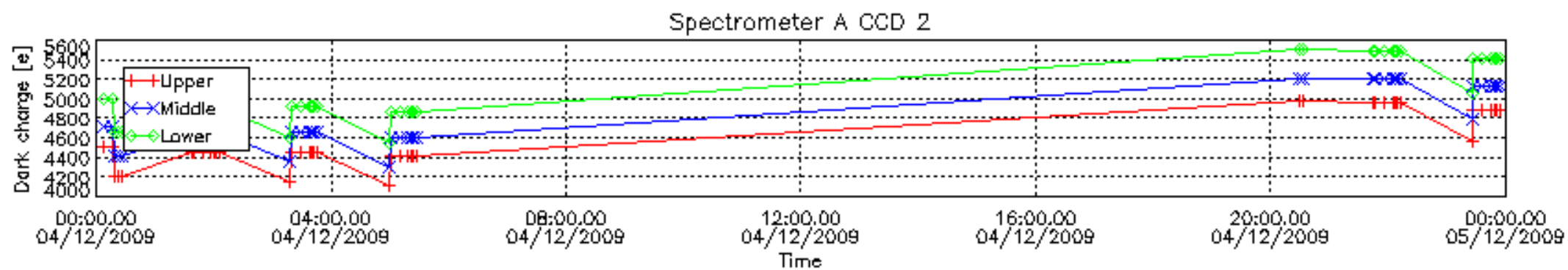
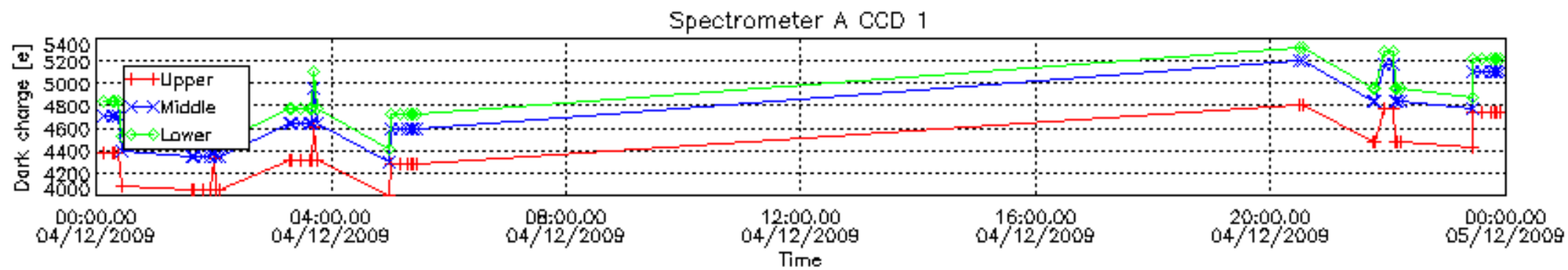
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

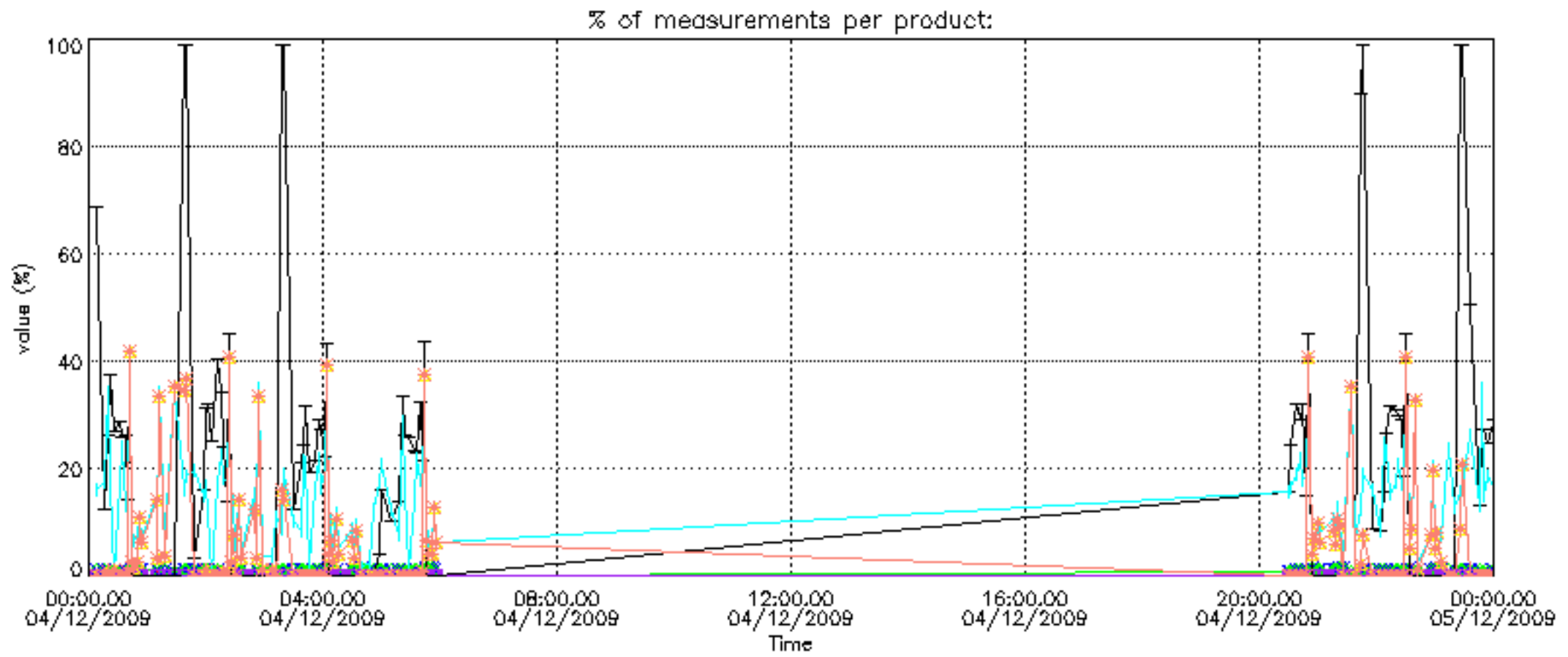
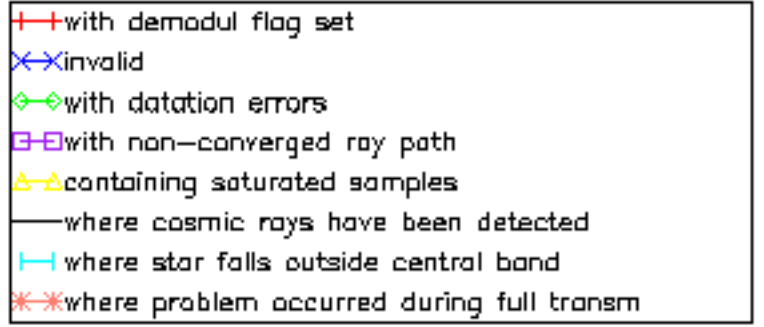
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	04-DEC-2009 00:07:51
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091130_103004_20091128_000000_20500101_000000	1	04-DEC-2009 00:07:51
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	04-DEC-2009 00:07:51
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	04-DEC-2009 00:07:51
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	04-DEC-2009 00:07:51
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ECMWF_FILE	AUX_ECF_AXNECM20091203_183502_20091204_030000_20091204_150000	62	04-DEC-2009 04:30:26
ECMWF_FILE	AUX_ECF_AXNECM20091204_064111_20091204_150000_20091205_030000	85	04-DEC-2009 20:29:04
ECMWF_FILE	AUX_ECF_AXNECM20091204_064111_20091204_210000_20091205_090000	103	04-DEC-2009 21:44:49
OPTIONAL_ECMWF_FILE	MISSING	1	04-DEC-2009 00:07:51
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091204_013034_000044632084_00446_40580_9290.N1	21	04-DEC-2009 01:31:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091204_025016_000054192084_00447_40581_9291.N1	40	04-DEC-2009 02:51:26
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091204_010110_20091203_190402_20091213_203014	62	04-DEC-2009 04:30:26
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091204_202735_000038252084_00458_40592_9293.N1	85	04-DEC-2009 20:29:04
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091204_213639_000060572084_00458_40592_9294.N1	103	04-DEC-2009 21:44:49
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091204_231736_000057382084_00459_40593_9295.N1	126	04-DEC-2009 23:25:25





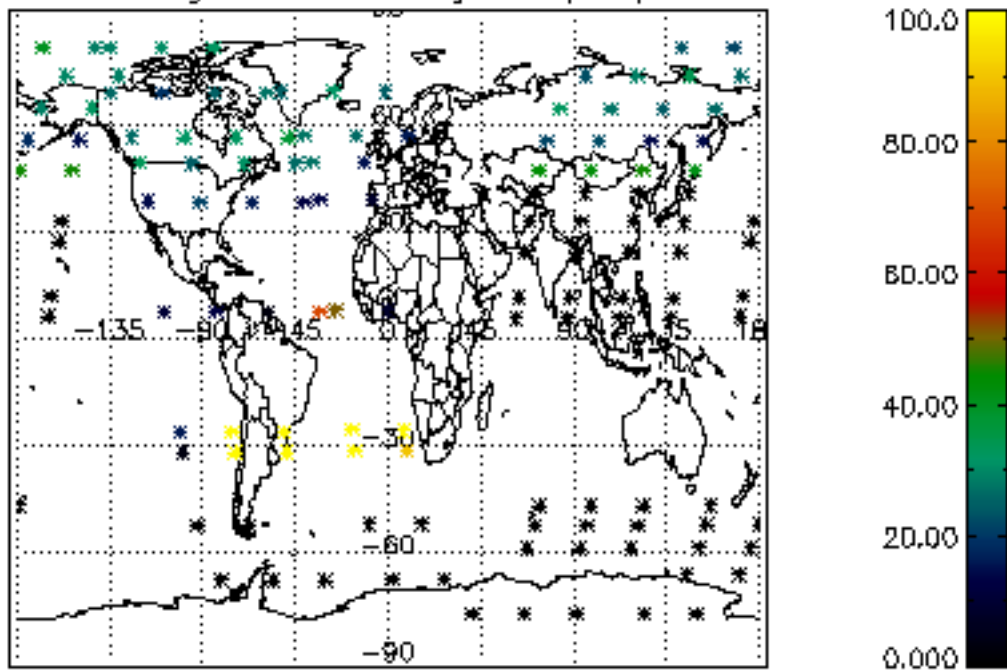




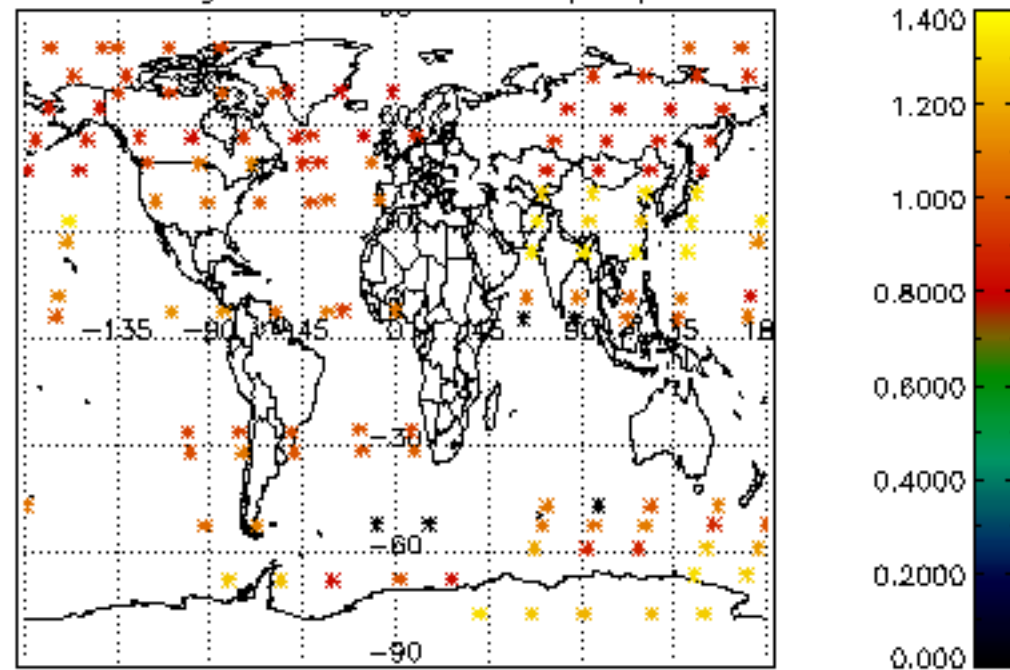




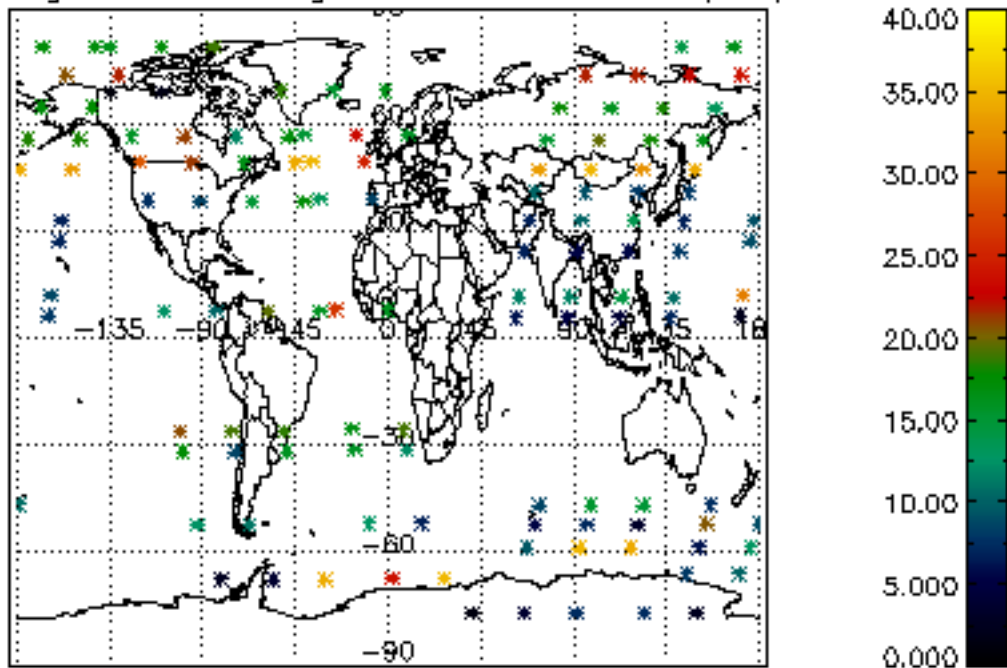
Percentage of cosmic ray hits per profile



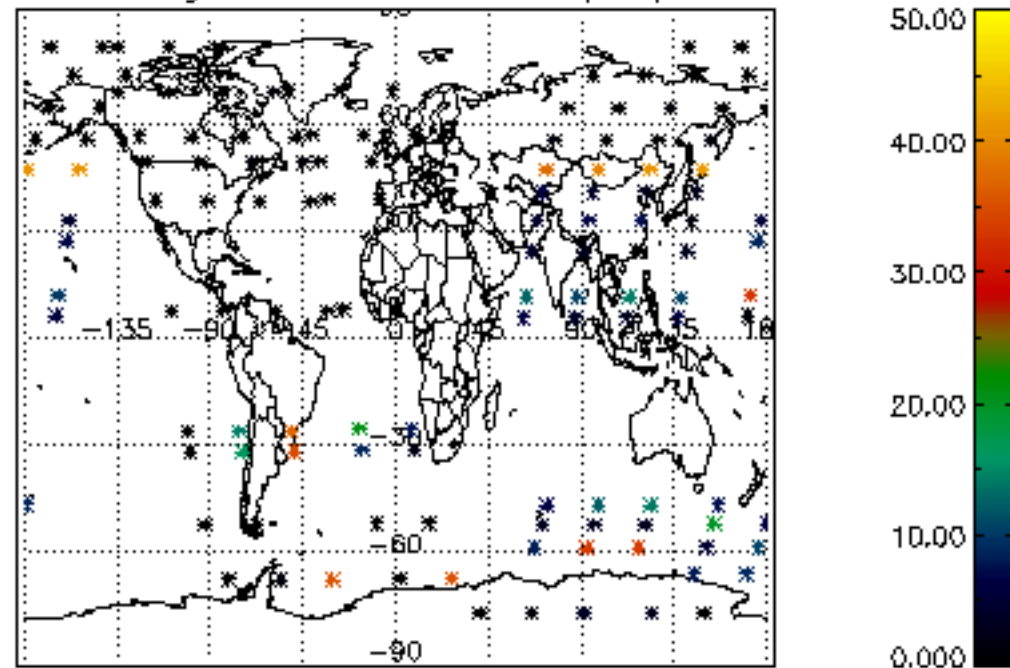
Percentage of datation errors per profile



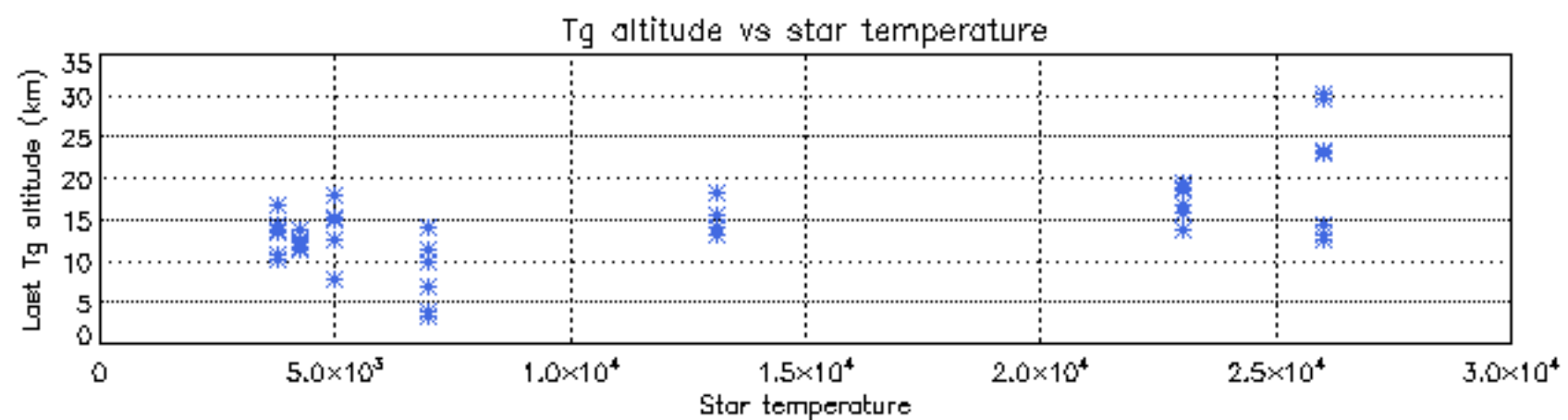
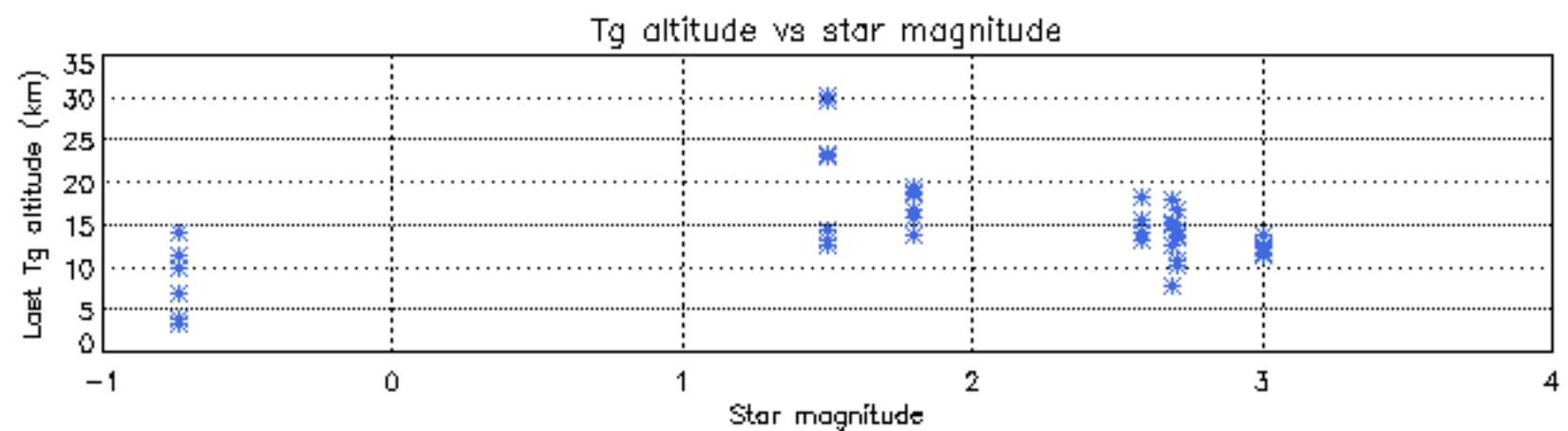
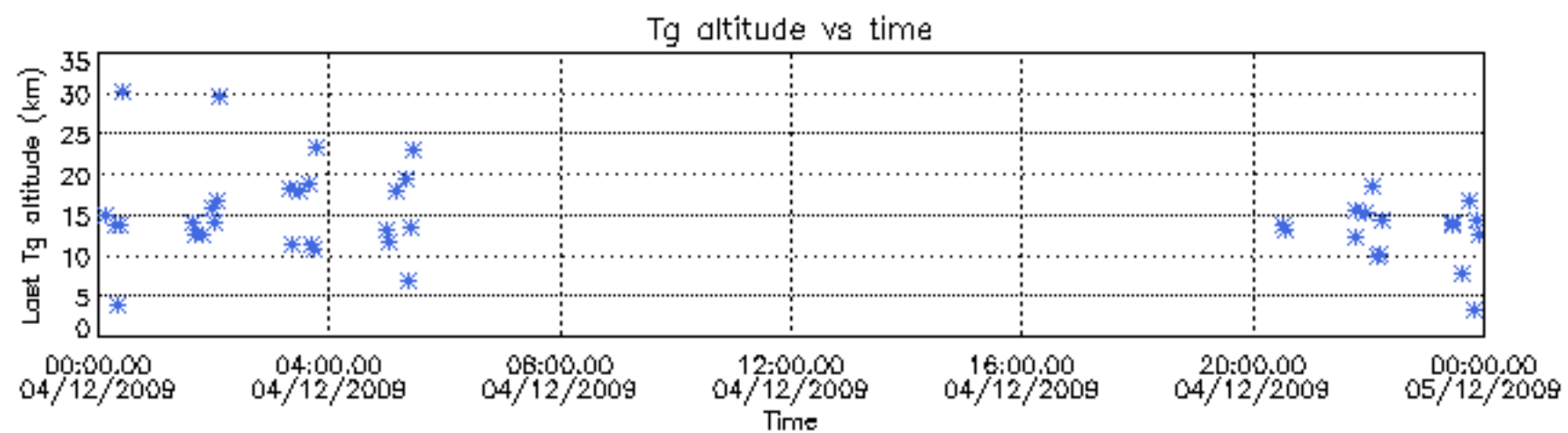
Percentage of star falling outside central band per profile



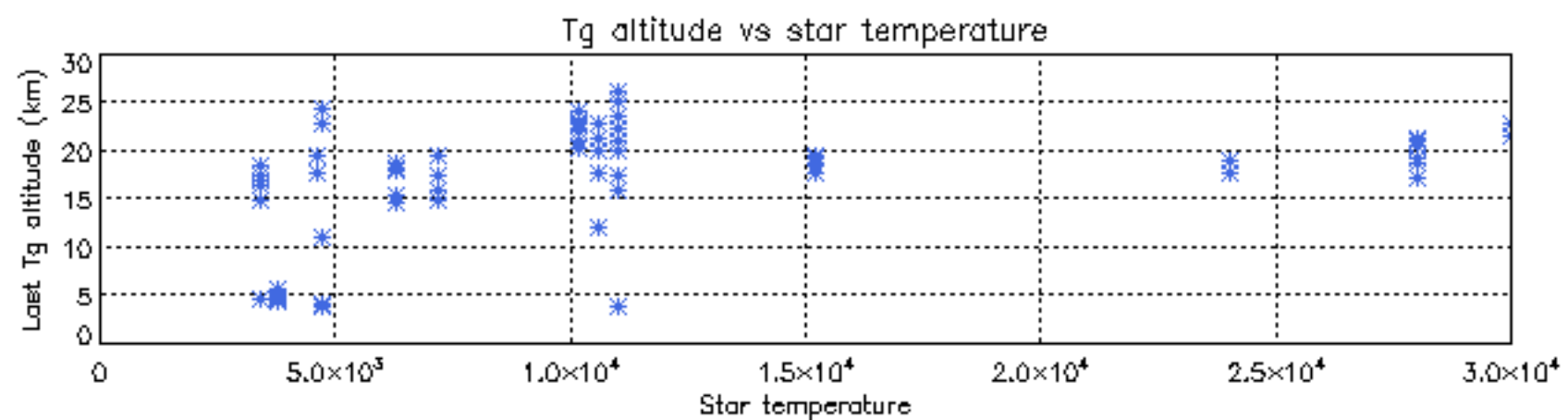
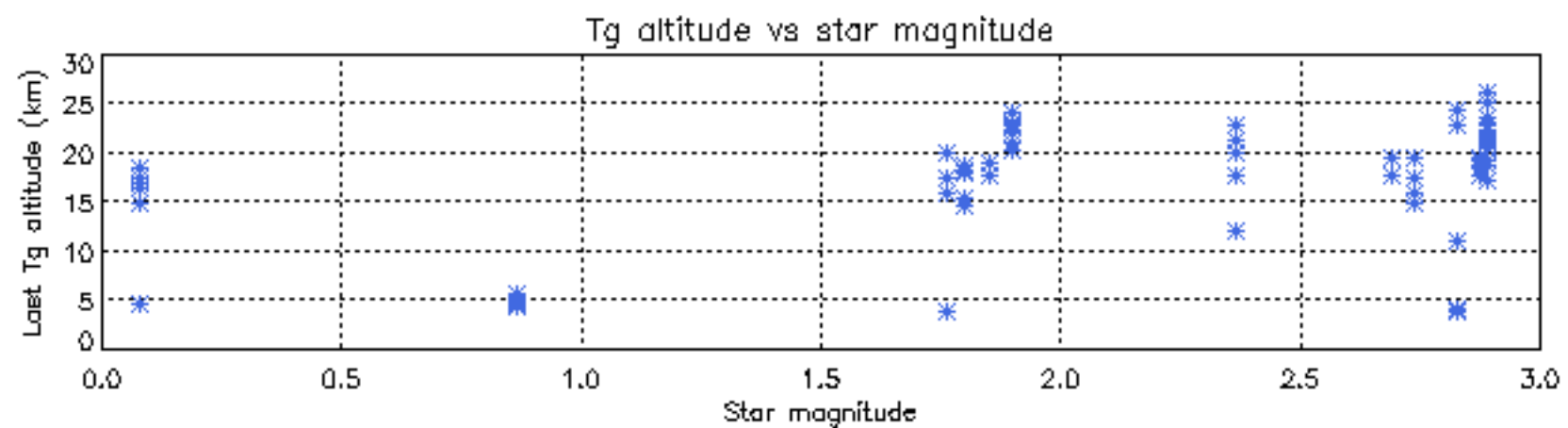
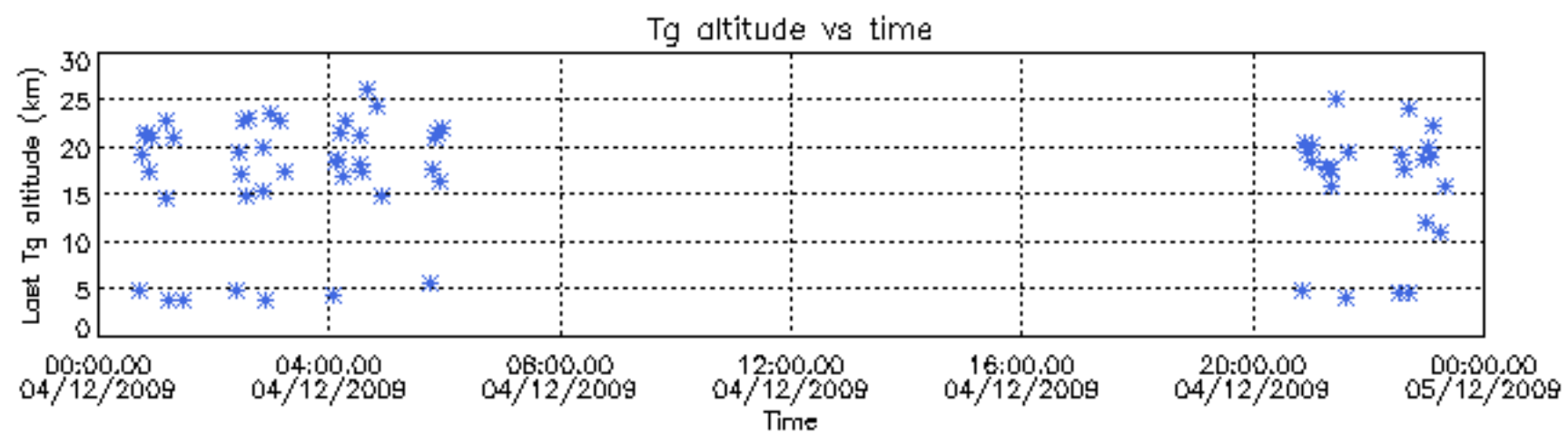
Percentage of saturation errors per profile



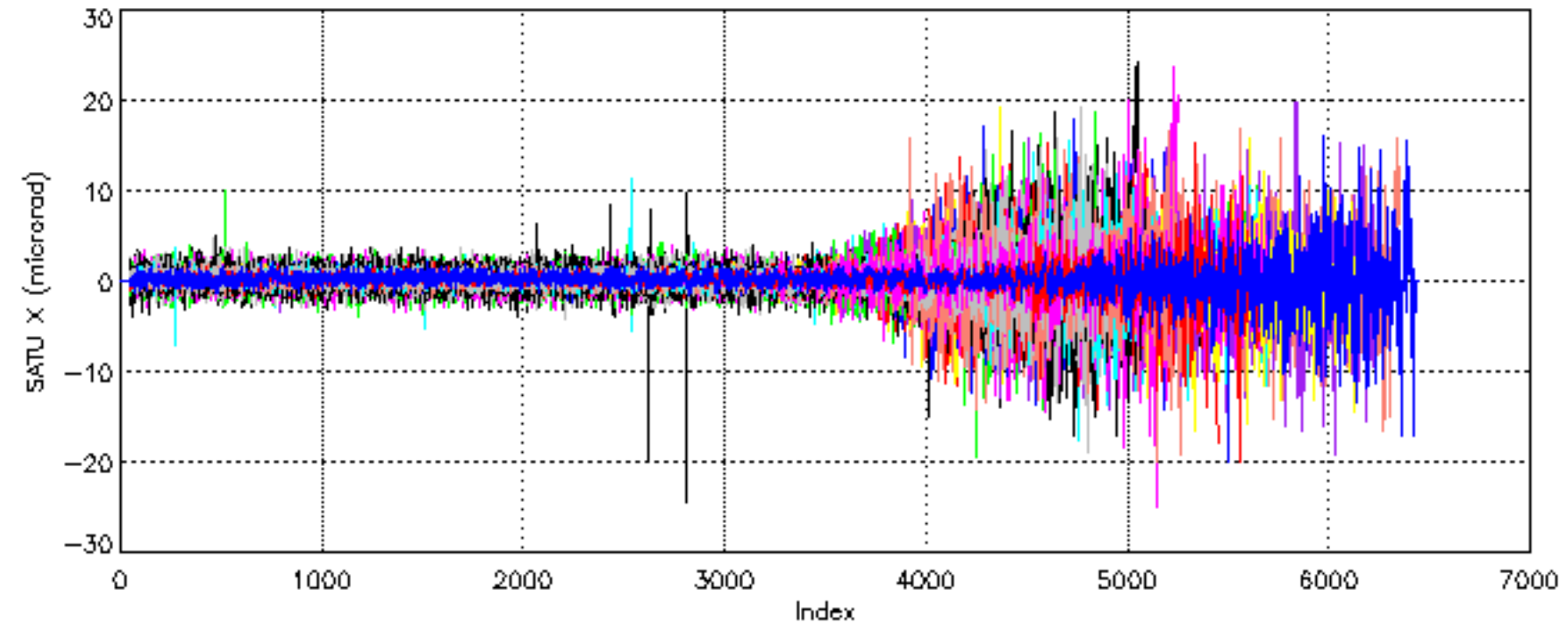
Tangent altitude at which the star is lost

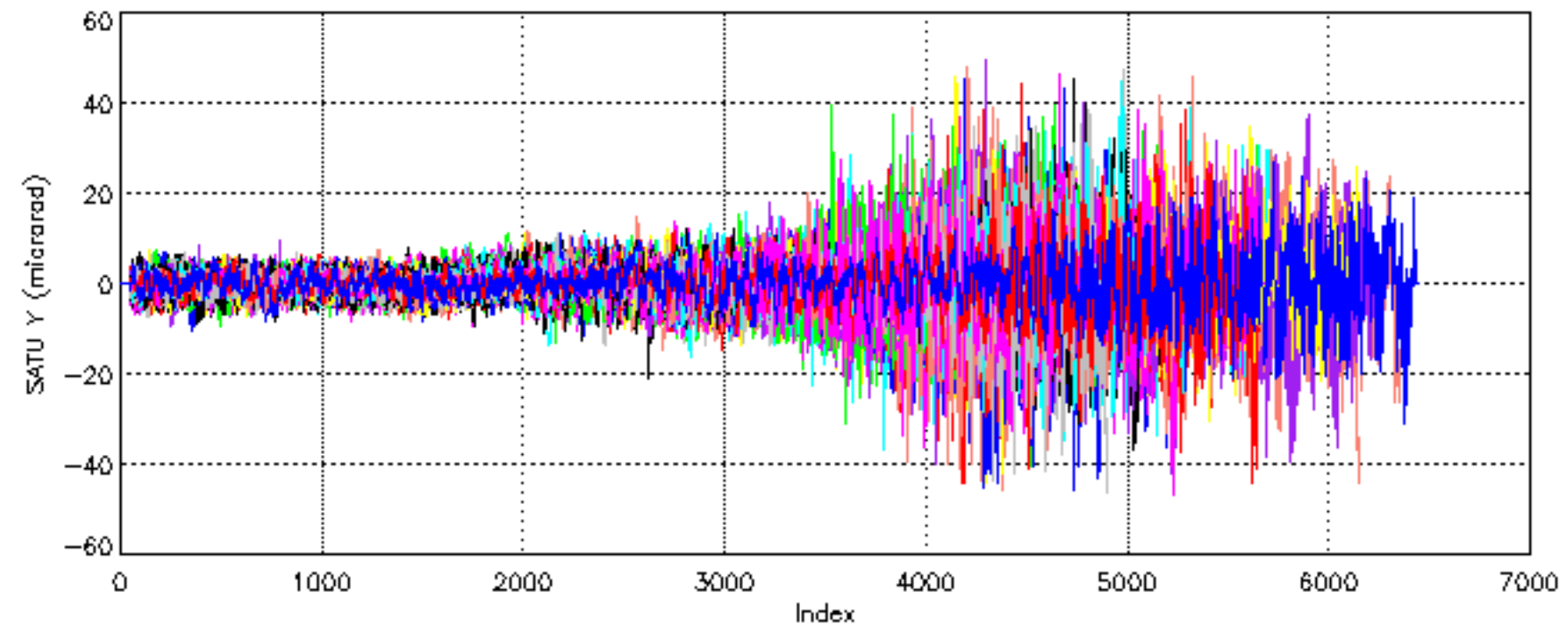


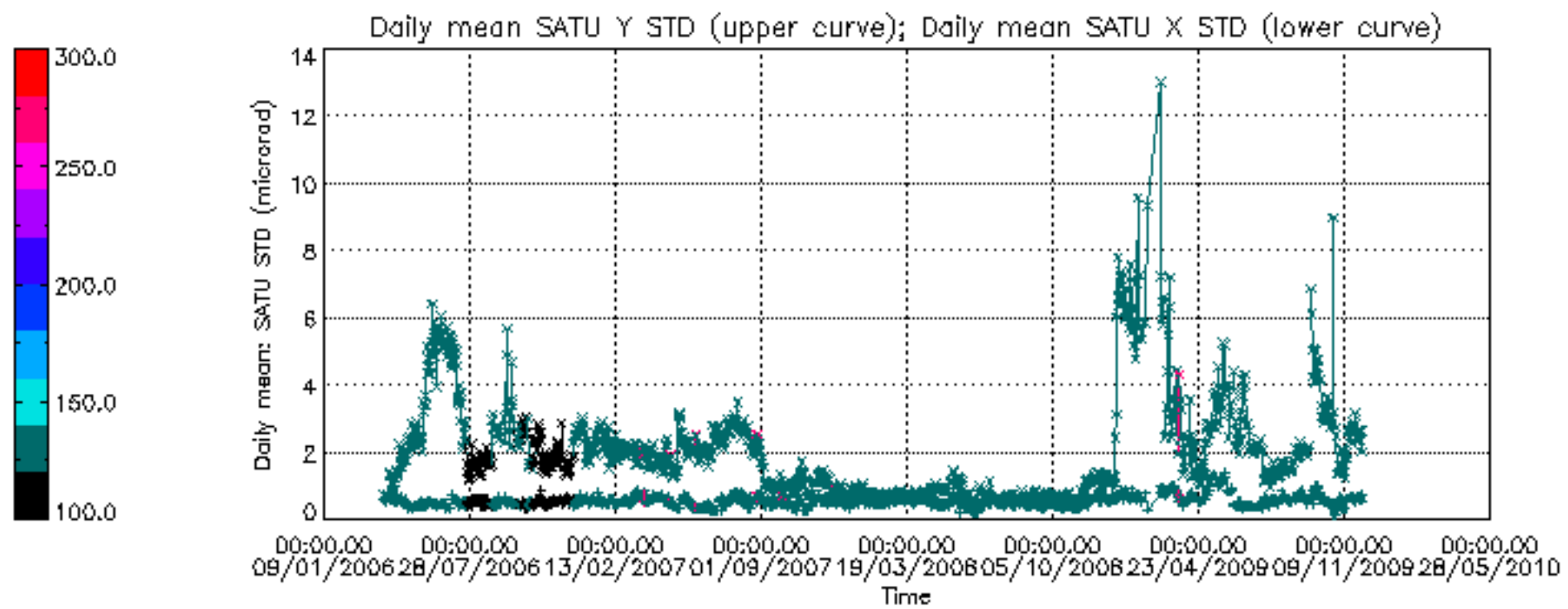
Tangent altitude at which the star is lost











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 15; 4950.4; 03-DEC-2009 15:24:44; Bright; 63.5; 62; 94Bet Leo ; 2.14; 9700;occ; 127; 0;40574  
 16; 5143.5; 03-DEC-2009 15:27:57; Bright; 46.5; 121; 29Gam Vir ; 2.74; 7200;occ; 93; 0;40574  
 17; 5491.7; 03-DEC-2009 15:33:46; Dark ; 51.0; 100; 4Gam Crv ; 2.58; 13100;occ; 102; 0;40574  
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 19; 6154.0; 03-DEC-2009 15:44:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40574  
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 23; 6986.1; 03-DEC-2009 15:58:40; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;40574  
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 13; 4177.2; 03-DEC-2009 16:52:27; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;40575  
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 23; 6986.7; 03-DEC-2009 17:39:17; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40575  
 24; 7134.5; 03-DEC-2009 17:41:44; Dark ; 18.0; 88; 31Eta CMa ; 2.45; 20000;occ; 36; 0;40575

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 12; 2921.9; 03-DEC-2009 18:12:08; Bright; 73.0; 42; 34Bet Aur ; 1.90; 10200;occ; 146; 0;40576  
 13; 3807.3; 03-DEC-2009 18:26:53; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;40576  
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 5; 1749.8; 03-DEC-2009 19:33:12; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;40577  
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 13; 3806.7; 03-DEC-2009 20:07:29; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;40577  
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 22; 5146.9; 04-DEC-2009 01:31:36; Bright; 45.0; 121; 29Gam Vir ; 2.74; 7200;occ; 90; 0;40580

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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
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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
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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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 7; 2530.4; 08-DEC-2009 15:27:31; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;40646  
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 9; 3779.3; 08-DEC-2009 15:48:20; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40646  
 10; 4002.2; 08-DEC-2009 15:52:02; Bright; 39.0; 32; 77Eps UMa ; 1.76; 11000;occ; 78; 0;40646  
 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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 13; 4700.7; 08-DEC-2009 16:03:41; Bright; 36.5; 111; 8Eta Boo ; 2.68; 6000;occ; 73; 0;40646  
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 7; 2378.8; 08-DEC-2009 17:05:35; Bright; 50.5; 176; 23Zet Tau ; 3.02; 22000;occ; 101; 0;40647  
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 18; 5562.1; 08-DEC-2009 17:58:38; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40647  
 19; 5658.6; 08-DEC-2009 18:00:15; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40647  
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 23; 6854.3; 08-DEC-2009 18:20:11; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40647  
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 8; 2378.4; 08-DEC-2009 18:46:11; Bright; 47.0; 176; 23Zet Tau ; 3.02; 22000;occ; 94; 0;40648



9; 2529.8; 08-DEC-2009 18:48:42; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;40648  
 10; 2784.6; 08-DEC-2009 18:52:57; Bright; 50.5; 6; 13Alp Aur ; 0.08; 3400;occ; 101; 0;40648  
 11; 3778.3; 08-DEC-2009 19:09:31; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;40648  
 12; 4001.7; 08-DEC-2009 19:13:14; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40648  
 13; 4140.8; 08-DEC-2009 19:15:33; Bright; 37.5; 39; 85Eta UMa ; 1.85; 24000;occ; 75; 0;40648  
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13; 504.6; 09-DEC-2009 07:39:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40656
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 23; 7045.6; 09-DEC-2009 09:28:45; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40656  
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 25; 7255.1; 09-DEC-2009 09:32:15; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40656  
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 11; 4140.8; 09-DEC-2009 10:20:56; Bright; 55.0; 39; 85Eta UMa ; 1.85; 24000;occ; 110; 0;40657  
 12; 4353.3; 09-DEC-2009 10:24:29; Bright; 63.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 126; 0;40657  
 13; 4703.3; 09-DEC-2009 10:30:19; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;40657  
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 11; 4140.5; 09-DEC-2009 12:01:32; Bright; 40.5; 39; 85Eta UMa ; 1.85; 24000;occ; 81; 0;40658  
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22; 6864.7; 09-DEC-2009 14:27:32; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40659  
23; 7047.7; 09-DEC-2009 14:30:35; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40659  
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22; 6744.7; 09-DEC-2009 16:06:08; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;40660  
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21; 5690.1; 10-DEC-2009 18:38:08; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40676
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 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  
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 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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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  
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19; 5701.3; 11-DEC-2009 11:24:19; Dark ; 55.5; 171; 2Eps Crv ; 3.00; 4250;occ; 111; 0;40686  
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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  
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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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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  
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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  
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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  
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18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687  
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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  
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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  
8; 2591.1; 11-DEC-2009 13:53:41; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;40688  
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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 5; 2196.8; 11-DEC-2009 15:27:42; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40689
 6; 2354.6; 11-DEC-2009 15:30:20; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 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
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19; 5705.1; 11-DEC-2009 16:26:10; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 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
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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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 3; 1748.1; 11-DEC-2009 17:00:49; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;40690
 4; 1893.3; 11-DEC-2009 17:03:15; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;40690
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 8; 2475.3; 11-DEC-2009 17:12:57; Bright; 46.5; 28; 12Bet Tau ; 1.65; 15200;occ; 93; 0;40690
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14; 4332.2; 11-DEC-2009 17:43:54; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;40690
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16; 4931.3; 11-DEC-2009 17:53:53; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40690
17; 5232.4; 11-DEC-2009 17:58:54; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40690
18; 5494.3; 11-DEC-2009 18:03:16; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40690
19; 5610.0; 11-DEC-2009 18:05:11; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 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  
 24; 6494.7; 11-DEC-2009 18:19:56; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40690  
 25; 6568.4; 11-DEC-2009 18:21:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40690  
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 27; 6778.7; 12-DEC-2009 17:53:03; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40704  
 28; 6921.5; 12-DEC-2009 17:55:26; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;40704  
 29; 7076.7; 12-DEC-2009 17:58:01; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40704

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 3; 1748.4; 12-DEC-2009 18:09:49; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40705  
 4; 1891.0; 12-DEC-2009 18:12:12; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40705  
 5; 2035.7; 12-DEC-2009 18:14:36; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40705  
 6; 2194.7; 12-DEC-2009 18:17:15; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40705  
 7; 2346.0; 12-DEC-2009 18:19:47; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40705  
 8; 2468.3; 12-DEC-2009 18:21:49; Bright; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;40705  
 9; 2589.8; 12-DEC-2009 18:23:50; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40705  
 10; 2696.0; 12-DEC-2009 18:25:37; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;40705  
 11; 2823.6; 12-DEC-2009 18:27:44; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;40705  
 12; 3752.6; 12-DEC-2009 18:43:13; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40705  
 13; 3992.3; 12-DEC-2009 18:47:13; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40705  
 14; 4139.7; 12-DEC-2009 18:49:40; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40705  
 15; 4333.6; 12-DEC-2009 18:52:54; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;40705  
 16; 4716.5; 12-DEC-2009 18:59:17; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40705  
 17; 4939.5; 12-DEC-2009 19:03:00; Bright; 55.0; 138; 47Eps Vir ; 2.83; 4700;occ; 110; 0;40705  
 18; 5295.1; 12-DEC-2009 19:08:56; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40705  
 19; 5504.1; 12-DEC-2009 19:12:25; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40705  
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 21; 5723.8; 12-DEC-2009 19:16:04; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;40705  
 22; 5948.9; 12-DEC-2009 19:19:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40705  
 23; 6043.6; 12-DEC-2009 19:21:24; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40705  
 24; 6264.7; 12-DEC-2009 19:25:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40705  
 25; 6504.3; 12-DEC-2009 19:29:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40705  
 26; 6580.0; 12-DEC-2009 19:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40705  
 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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 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706  
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 6; 1890.9; 12-DEC-2009 19:52:47; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40706  
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 9; 2345.5; 12-DEC-2009 20:00:22; Bright; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;40706  
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 11; 2589.7; 12-DEC-2009 20:04:26; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40706  
 12; 2695.2; 12-DEC-2009 20:06:12; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40706  
 13; 2822.9; 12-DEC-2009 20:08:19; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;40706  
 14; 3752.1; 12-DEC-2009 20:23:49; Bright; 48.5; 36; 50Alp UMa ; 1.80; 6300;occ; 97; 0;40706  
 15; 3992.0; 12-DEC-2009 20:27:49; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40706  
 16; 4139.9; 12-DEC-2009 20:30:16; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40706  
 17; 4333.5; 12-DEC-2009 20:33:30; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40706  
 18; 4716.6; 12-DEC-2009 20:39:53; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40706  
 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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 6; 8.2; 12-DEC-2009 21:02:01; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40707  
 7; 229.7; 12-DEC-2009 21:05:42; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40707  
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9; 544.8; 12-DEC-2009 21:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40707  
10; 744.0; 12-DEC-2009 21:14:16; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40707  
11; 886.5; 12-DEC-2009 21:16:39; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;40707  
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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  
14; 1530.8; 12-DEC-2009 21:27:23; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;40707  
15; 1748.4; 12-DEC-2009 21:31:01; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40707  
16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707  
17; 2035.2; 12-DEC-2009 21:35:48; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40707  
18; 2194.4; 12-DEC-2009 21:38:27; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40707  
19; 2345.0; 12-DEC-2009 21:40:57; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40707  
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21; 2589.5; 12-DEC-2009 21:45:02; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;40707  
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  
24; 3751.7; 12-DEC-2009 22:04:24; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40707  
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  
30; 5296.0; 12-DEC-2009 22:30:09; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;40707

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3; -405.7; 12-DEC-2009 22:35:43; Dark ; 53.5; 100; 4Gam Crv ; 2.58; 13100;occ; 107; 0;40707  
4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707  
5; -85.9; 12-DEC-2009 22:41:02; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40707  
6; 8.7; 12-DEC-2009 22:42:37; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40708  
7; 230.5; 12-DEC-2009 22:46:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40708  
8; 469.4; 12-DEC-2009 22:50:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40708  
9; 545.6; 12-DEC-2009 22:51:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40708  
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12; 1042.3; 12-DEC-2009 22:59:51; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40708  
13; 1244.3; 12-DEC-2009 23:03:13; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40708  
14; 1530.9; 12-DEC-2009 23:07:59; Dark ; 53.0; 47; 2Bet CMA ; 1.98; 28000;occ; 106; 0;40708  
15; 1748.3; 12-DEC-2009 23:11:37; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40708  
16; 1890.4; 12-DEC-2009 23:13:59; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40708  
17; 2035.0; 12-DEC-2009 23:16:23; Dark ; 51.0; 27; 24Gam Ori ; 1.64; 26000;occ; 102; 0;40708  
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19; 2344.7; 12-DEC-2009 23:21:33; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40708  
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22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708  
23; 2821.5; 12-DEC-2009 23:29:30; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;40708  
24; 3751.3; 12-DEC-2009 23:45:00; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40708  
25; 3991.3; 12-DEC-2009 23:49:00; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40708  
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  
30; 5296.7; 13-DEC-2009 00:10:45; Dark ; 48.0; 15; 67Alp Vir ; 0.98; 28000;occ; 96; 0;40708

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4; -85.5; 13-DEC-2009 00:21:39; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40708  
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6; 231.4; 13-DEC-2009 00:26:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40709  
7; 470.0; 13-DEC-2009 00:30:54; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40709  
8; 546.4; 13-DEC-2009 00:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40709  
9; 745.4; 13-DEC-2009 00:35:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40709  
10; 887.1; 13-DEC-2009 00:37:51; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;40709  
11; 1042.9; 13-DEC-2009 00:40:27; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40709  
12; 1244.5; 13-DEC-2009 00:43:49; Dark ; 53.0; 23; 21Eps CMA ; 1.50; 26000;occ; 106; 0;40709  
13; 1531.0; 13-DEC-2009 00:48:35; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;40709  
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19; 2466.2; 13-DEC-2009 01:04:10; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40709
20; 2589.4; 13-DEC-2009 01:06:14; Bright; 35.5; 149; 45Eps Per ; 2.89; 30000;occ; 71; 0;40709
21; 2693.0; 13-DEC-2009 01:07:57; Bright; 47.5; 107; 37The Aur ; 2.65; 11000;occ; 95; 0;40709
22; 2820.7; 13-DEC-2009 01:10:05; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40709
23; 3750.6; 13-DEC-2009 01:25:35; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40709
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4; -307.4; 13-DEC-2009 01:58:33; Dark ; 56.5; 171; 2Eps Crv ; 3.00; 4250;occ; 113; 0;40709
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6; 10.1; 13-DEC-2009 02:03:50; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40710
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8; 470.7; 13-DEC-2009 02:11:31; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40710
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12; 1043.5; 13-DEC-2009 02:21:04; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40710
13; 1245.0; 13-DEC-2009 02:24:25; Dark ; 56.5; 23; 21Eps CMa ; 1.50; 26000;occ; 113; 0;40710
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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
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 19; 5790.0; 16-DEC-2009 10:28:19; Dark ; 53.0; 171; 2Eps Crv ; 3.00; 4250;occ; 106; 0;40757  
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 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  
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 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  
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11; 3981.2; 16-DEC-2009 11:38:46; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;40758
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16; 4973.5; 16-DEC-2009 11:55:19; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;40758
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23; 6311.6; 16-DEC-2009 12:17:37; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40758
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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
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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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9; 2791.0; 16-DEC-2009 12:59:32; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40759
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13; 4338.9; 16-DEC-2009 13:25:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40759
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19; 5695.2; 16-DEC-2009 13:47:56; Dark ; 49.5; 106; 9Bet Crv ; 2.65; 5600;occ; 99; 0;40759
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22; 6080.3; 16-DEC-2009 13:54:21; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40759
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25; 6620.9; 16-DEC-2009 14:03:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40759
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
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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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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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 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  
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 11; 2789.7; 16-DEC-2009 16:20:43; Bright; 46.0; 42; 34Bet Aur ; 1.90; 10200;occ; 92; 0;40761  
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 13; 3980.7; 16-DEC-2009 16:40:34; Bright; 42.0; 32; 77Eps UMa ; 1.76; 11000;occ; 84; 0;40761  
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 22; 5795.7; 16-DEC-2009 17:10:49; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40761  
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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  
 10; 2444.3; 16-DEC-2009 17:55:33; Bright; 60.0; 28; 12Bet Tau ; 1.65; 15200;occ; 120; 0;40762  
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 13; 3704.7; 16-DEC-2009 18:16:34; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 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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16; 918.0; 17-DEC-2009 06:54:55; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40770
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27; 7413.7; 17-DEC-2009 08:43:10; Dark ; 40.0; 179; 240mi2CMa ; 3.03; 24000;occ; 80; 0;40770  
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 4; 1883.1; 17-DEC-2009 15:33:59; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40775  
 5; 2067.4; 17-DEC-2009 15:37:04; Dark ; 65.0; 14; 58Alp Ori ; 0.87; 3000;occ; 130; 0;40775  
 6; 2189.1; 17-DEC-2009 15:39:05; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40775  
 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  
 10; 2782.0; 17-DEC-2009 15:48:58; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40775  
 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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 4; 1751.1; 17-DEC-2009 17:12:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40776  
 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  
 7; 2189.1; 17-DEC-2009 17:19:41; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40776  
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 9; 2439.2; 17-DEC-2009 17:23:51; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40776  
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 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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5; 1751.1; 17-DEC-2009 18:52:59; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40777  
6; 1883.0; 17-DEC-2009 18:55:11; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40777  
7; 2066.6; 17-DEC-2009 18:58:15; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40777  
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9; 2315.1; 17-DEC-2009 19:02:23; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40777  
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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  
18; 4738.7; 17-DEC-2009 19:42:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40777  
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  
24; 6328.7; 17-DEC-2009 20:09:17; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 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  
27; 6831.0; 17-DEC-2009 20:17:39; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 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  
8; 926.0; 18-DEC-2009 01:21:38; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40781  
9; 1084.0; 18-DEC-2009 01:24:16; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40781  
10; 1275.5; 18-DEC-2009 01:27:27; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;40781  
11; 1381.0; 18-DEC-2009 01:29:13; Dark ; 52.0; 179; 240mi2CMa ; 3.03; 24000;occ; 104; 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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19; 2647.4; 18-DEC-2009 01:50:19; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 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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7; -316.0; 18-DEC-2009 02:41:32; Dark ; 59.0; 106; 9Bet Crv ; 2.65; 5600;occ; 118; 0;40781  
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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  
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13; 797.7; 18-DEC-2009 03:00:05; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40782  
14; 926.5; 18-DEC-2009 03:02:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40782  
15; 1084.5; 18-DEC-2009 03:04:52; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40782  
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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19; 1751.3; 18-DEC-2009 03:15:59; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 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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 4;-1695.3; 18-DEC-2009 03:59:08; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40782
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 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  
 17; 5725.5; 18-DEC-2009 11:04:37; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40786  
 18; 5999.0; 18-DEC-2009 11:09:11; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40786  
 19; 6099.2; 18-DEC-2009 11:10:51; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40786  
 20; 6336.8; 18-DEC-2009 11:14:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40786  
 21; 6554.3; 18-DEC-2009 11:18:26; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40786  
 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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1; 1751.4; 18-DEC-2009 11:38:59; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40787  
 2; 1882.1; 18-DEC-2009 11:41:10; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;40787  
 3; 2063.9; 18-DEC-2009 11:44:11; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;40787  
 4; 2188.5; 18-DEC-2009 11:46:16; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40787  
 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  
 8; 2775.4; 18-DEC-2009 11:56:03; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40787  
 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  
 15; 5354.1; 18-DEC-2009 12:39:02; Dark ; 54.0; 15; 67Alp Vir ; 0.98; 28000;occ; 108; 0;40787  
 16; 5564.6; 18-DEC-2009 12:42:32; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40787  
 17; 5726.8; 18-DEC-2009 12:45:14; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40787  
 18; 5999.8; 18-DEC-2009 12:49:47; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40787  
 19; 6099.9; 18-DEC-2009 12:51:27; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40787  
 20; 6337.6; 18-DEC-2009 12:55:25; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40787  
 21; 6554.8; 18-DEC-2009 12:59:02; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40787  
 22; 6641.4; 18-DEC-2009 13:00:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40787  
 23; 6837.7; 18-DEC-2009 13:03:45; Dark ; 53.0; 34; Gam2Vel ; 1.79; 23000;occ; 106; 0;40787  
 24; 6966.7; 18-DEC-2009 13:05:54; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40787  
 25; 7123.5; 18-DEC-2009 13:08:31; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40787  
 26; 7313.8; 18-DEC-2009 13:11:41; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;40787  
 27; 7418.7; 18-DEC-2009 13:13:26; Dark ; 52.5; 179; 240mi2CMA ; 3.03; 24000;occ; 105; 0;40787  
 28; 7594.7; 18-DEC-2009 13:16:22; Dark ; 8.5; 1; 9Alp CMA ; -1.44; 11000;occ; 17; 0;40787

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1; 1558.8; 18-DEC-2009 13:16:22; Dark ; 62.0; 1; 9Alp CMA ; -1.44; 11000;occ; 124; 0;40788  
 2; 1751.5; 18-DEC-2009 13:19:35; Dark ; 48.5; 7; 19Bet Ori ; 0.10; 14000;occ; 97; 0;40788  
 3; 1882.1; 18-DEC-2009 13:21:46; Dark ; 47.5; 30; 46Eps Ori ; 1.69; 30000;occ; 95; 0;40788  
 4; 2063.5; 18-DEC-2009 13:24:47; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40788  
 5; 2188.7; 18-DEC-2009 13:26:52; Dark ; 44.0; 13; 87Alp Tau ; 0.87; 3800;occ; 88; 0;40788  
 6; 2311.4; 18-DEC-2009 13:28:55; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40788  
 7; 2435.0; 18-DEC-2009 13:30:58; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40788  
 8; 2643.4; 18-DEC-2009 13:34:27; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40788  
 9; 2774.9; 18-DEC-2009 13:36:38; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40788  
 10; 3703.8; 18-DEC-2009 13:52:07; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40788  
 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  
 16; 5354.8; 18-DEC-2009 14:19:38; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40788  
 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

19; 6000.5; 18-DEC-2009 14:30:24; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40788  
 20; 6100.8; 18-DEC-2009 14:32:04; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40788  
 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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1; 1429.8; 18-DEC-2009 14:54:49; Dark ; 52.5; 179; 240mi2CMA ; 3.03; 24000;occ; 105; 93;40789  
 2; 1558.9; 18-DEC-2009 14:56:58; Dark ; 61.0; 1; 9Alp CMA ; -1.44; 11000;occ; 122; 0;40789  
 3; 1751.6; 18-DEC-2009 15:00:11; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40789  
 4; 1881.8; 18-DEC-2009 15:02:21; Dark ; 45.0; 30; 46Eps Ori ; 1.69; 30000;occ; 90; 0;40789  
 5; 2063.1; 18-DEC-2009 15:05:22; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40789  
 6; 2188.6; 18-DEC-2009 15:07:28; Dark ; 45.5; 13; 87Alp Tau ; 0.87; 3800;occ; 91; 0;40789  
 7; 2311.0; 18-DEC-2009 15:09:30; Bright; 43.0; 176; 23Zet Tau ; 3.02; 22000;occ; 86; 0;40789  
 8; 2434.6; 18-DEC-2009 15:11:34; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40789  
 9; 2643.0; 18-DEC-2009 15:15:02; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40789  
 10; 2774.5; 18-DEC-2009 15:17:14; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;40789  
 11; 3703.9; 18-DEC-2009 15:32:43; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40789  
 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  
 14; 4341.2; 18-DEC-2009 15:43:21; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40789  
 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  
 17; 5355.7; 18-DEC-2009 16:00:15; Dark ; 52.0; 15; 67Alp Vir ; 0.98; 28000;occ; 104; 0;40789  
 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  
 20; 6001.2; 18-DEC-2009 16:11:01; Dark ; 42.0; 64; Gam Cen ; 2.20; 10600;occ; 84; 0;40789  
 21; 6101.6; 18-DEC-2009 16:12:41; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40789  
 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  
 25; 6839.1; 18-DEC-2009 16:24:58; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;40789  
 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  
 28; 7314.8; 18-DEC-2009 16:32:54; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;40789

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1; 1278.8; 18-DEC-2009 16:32:54; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;40790  
 2; 1383.8; 18-DEC-2009 16:34:39; Dark ; 52.0; 179; 240mi2CMA ; 3.03; 24000;occ; 104; 0;40790  
 3; 1559.0; 18-DEC-2009 16:37:34; Dark ; 60.5; 1; 9Alp CMA ; -1.44; 11000;occ; 121; 0;40790  
 4; 1751.8; 18-DEC-2009 16:40:47; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40790  
 5; 1882.0; 18-DEC-2009 16:42:57; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40790  
 6; 2062.8; 18-DEC-2009 16:45:58; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;40790  
 7; 2188.4; 18-DEC-2009 16:48:04; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40790  
 8; 2310.5; 18-DEC-2009 16:50:06; Bright; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;40790  
 9; 2434.3; 18-DEC-2009 16:52:10; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40790  
 10; 2642.4; 18-DEC-2009 16:55:38; Bright; 43.0; 107; 37The Aur ; 2.65; 11000;occ; 86; 0;40790  
 11; 2773.8; 18-DEC-2009 16:57:49; Bright; 42.5; 42; 34Bet Aur ; 1.90; 10200;occ; 85; 0;40790  
 12; 3703.9; 18-DEC-2009 17:13:19; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40790  
 13; 3973.7; 18-DEC-2009 17:17:49; Bright; 63.0; 32; 77Eps UMa ; 1.76; 11000;occ; 126; 0;40790  
 14; 4134.9; 18-DEC-2009 17:20:30; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40790  
 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  
 22; 6102.3; 18-DEC-2009 17:53:18; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40790  
 23; 6340.5; 18-DEC-2009 17:57:16; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40790  
 24; 6556.8; 18-DEC-2009 18:00:52; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;40790  
 25; 6643.7; 18-DEC-2009 18:02:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40790  
 26; 6839.8; 18-DEC-2009 18:05:35; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40790  
 27; 6969.2; 18-DEC-2009 18:07:45; Dark ; 50.0; 70; Zet Pup ; 2.25; 39000;occ; 100; 0;40790  
 28; 7125.4; 18-DEC-2009 18:10:21; Dark ; 32.5; 117; Pi Pup ; 2.71; 3800;occ; 65; 0;40790

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 3; 1384.3; 18-DEC-2009 18:15:16; Dark ; 49.0; 179; 240mi2CMa ; 3.03; 24000;occ; 98; 0;40791  
 4; 1559.3; 18-DEC-2009 18:18:11; Dark ; 60.5; 1; 9Alp CMa ; -1.44; 11000;occ; 121; 0;40791  
 5; 1751.8; 18-DEC-2009 18:21:23; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40791  
 6; 1881.9; 18-DEC-2009 18:23:33; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40791  
 7; 2062.6; 18-DEC-2009 18:26:34; Dark ; 61.0; 14; 58Alp Ori ; 0.87; 3000;occ; 122; 0;40791  
 8; 2188.5; 18-DEC-2009 18:28:40; Dark ; 43.5; 13; 87Alp Tau ; 0.87; 3800;occ; 87; 0;40791  
 9; 2310.3; 18-DEC-2009 18:30:42; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40791  
 10; 2434.0; 18-DEC-2009 18:32:45; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40791  
 11; 2642.0; 18-DEC-2009 18:36:13; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40791  
 12; 2773.4; 18-DEC-2009 18:38:25; Bright; 41.5; 42; 34Bet Aur ; 1.90; 10200;occ; 83; 0;40791  
 13; 3703.5; 18-DEC-2009 18:53:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40791  
 14; 3973.5; 18-DEC-2009 18:58:25; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40791  
 15; 4134.7; 18-DEC-2009 19:01:06; Bright; 52.0; 39; 85Eta UMa ; 1.85; 24000;occ; 104; 0;40791  
 16; 4341.6; 18-DEC-2009 19:04:33; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40791  
 17; 4537.8; 18-DEC-2009 19:07:49; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;40791  
 18; 4743.5; 18-DEC-2009 19:11:15; Bright; 43.0; 111; 8Eta Boo ; 2.68; 6000;occ; 86; 0;40791  
 19; 5357.3; 18-DEC-2009 19:21:29; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40791  
 20; 5567.9; 18-DEC-2009 19:24:59; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;40791  
 21; 5731.7; 18-DEC-2009 19:27:43; Dark ; 53.0; 106; 9Bet Crv ; 2.65; 5600;occ; 106; 0;40791  
 22; 6002.4; 18-DEC-2009 19:32:14; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40791  
 23; 6102.9; 18-DEC-2009 19:33:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40791  
 24; 6341.4; 18-DEC-2009 19:37:53; Dark ; 55.5; 113; Mu Vel ; 2.69; 5000;occ; 111; 0;40791  
 25; 6557.4; 18-DEC-2009 19:41:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40791  
 26; 6644.4; 18-DEC-2009 19:42:56; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40791  
 27; 6840.4; 18-DEC-2009 19:46:12; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40791

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 22; 2727.1; 19-DEC-2009 01:20:02; Bright; 44.5; 6; 13Alp Aur ; 0.08; 3400;occ; 89; 0;40795  
 23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795  
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 25; 4134.4; 19-DEC-2009 01:43:29; Bright; 53.5; 39; 85Eta UMa ; 1.85; 24000;occ; 107; 0;40795  
 26; 4341.7; 19-DEC-2009 01:46:57; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40795  
 27; 4538.5; 19-DEC-2009 01:50:13; Bright; 42.0; 83; ; 2.38; 11000;occ; 84; 0;40795  
 28; 4744.6; 19-DEC-2009 01:53:40; Bright; 42.5; 111; 8Eta Boo ; 2.68; 6000;occ; 85; 0;40795

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 13; 524.4; 19-DEC-2009 04:04:31; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40797  
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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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 4; 106.1; 23-DEC-2009 23:38:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40866  
 5; 372.5; 23-DEC-2009 23:43:19; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40866  
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 11; 1306.1; 23-DEC-2009 23:58:53; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;40866  
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 13; 1567.9; 24-DEC-2009 00:03:14; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;40866  
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 16; 2045.8; 24-DEC-2009 00:11:12; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;40866  
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 18; 2413.7; 24-DEC-2009 00:17:20; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40866  
 19; 2605.5; 24-DEC-2009 00:20:32; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40866  
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 21; 3700.2; 24-DEC-2009 00:38:47; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;40866  
 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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17; 1121.2; 23-DEC-2009 07:09:48; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40856  
18; 1302.9; 23-DEC-2009 07:12:50; Dark ; 49.0; 23; 21Eps CMa ; 1.50; 26000;occ; 98; 0;40856  
19; 1402.7; 23-DEC-2009 07:14:30; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
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7; 2711.6; 23-DEC-2009 07:36:19; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;40856  
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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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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21; 6702.8; 23-DEC-2009 08:42:50; Dark ; 52.0; 41; Eps Car ; 1.86; 4100;occ; 104; 0;40856  
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  
24; 7157.5; 23-DEC-2009 08:50:25; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40856  
25; 7338.9; 23-DEC-2009 08:53:26; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40856  
26; 7438.9; 23-DEC-2009 08:55:06; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
27; 7602.9; 23-DEC-2009 08:57:50; Dark ; 57.0; 1; 9Alp CMa ; -1.44; 11000;occ; 114; 0;40856  
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5; 2416.1; 23-DEC-2009 09:11:59; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40857  
6; 2609.7; 23-DEC-2009 09:15:13; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40857  
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8; 3700.4; 23-DEC-2009 09:33:23; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40857  
9; 3955.4; 23-DEC-2009 09:37:38; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40857  
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26; 7439.0; 23-DEC-2009 10:35:42; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40857
27; 7602.8; 23-DEC-2009 10:38:26; Dark ; 54.0; 1; 9Alp CMA ; -1.44; 11000;occ; 108; 0;40857
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12; 4346.9; 23-DEC-2009 11:24:46; Bright; 39.0; 180; 27Gam Boo ; 3.04; 8000;occ; 78; 0;40858
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25; 7158.1; 23-DEC-2009 12:11:37; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40858
26; 7339.6; 23-DEC-2009 12:14:39; Dark ; 51.0; 23; 21Eps CMA ; 1.50; 26000;occ; 102; 0;40858
27; 7439.2; 23-DEC-2009 12:16:18; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40858
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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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 4; 1879.2; 23-DEC-2009 14:04:50; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40860
 5; 2046.9; 23-DEC-2009 14:07:38; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40860

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6; 2290.5; 23-DEC-2009 14:11:41; Bright; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;40860  
7; 2415.3; 23-DEC-2009 14:13:46; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40860  
8; 2608.3; 23-DEC-2009 14:16:59; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;40860  
9; 2710.7; 23-DEC-2009 14:18:41; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;40860  
10; 3700.7; 23-DEC-2009 14:35:11; Bright; 37.0; 60; 7Bet UMi ; 2.08; 3950;occ; 74; 0;40860  
11; 3954.7; 23-DEC-2009 14:39:25; Bright; 47.5; 32; 77Eps UMa ; 1.76; 11000;occ; 95; 0;40860  
12; 4128.2; 23-DEC-2009 14:42:19; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;40860  
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  
15; 4768.9; 23-DEC-2009 14:53:00; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40860  
16; 5418.8; 23-DEC-2009 15:03:50; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;40860  
17; 5690.3; 23-DEC-2009 15:08:21; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;40860  
18; 5819.7; 23-DEC-2009 15:10:30; Dark ; 36.0; 106; 9Bet Crv ; 2.65; 5600;occ; 72; 0;40860  
19; 6050.2; 23-DEC-2009 15:14:21; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40860  
20; 6137.7; 23-DEC-2009 15:15:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40860  
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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3; 1404.2; 23-DEC-2009 15:37:31; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;40861  
4; 1567.2; 23-DEC-2009 15:40:14; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;40861  
5; 1756.9; 23-DEC-2009 15:43:24; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40861  
6; 1879.0; 23-DEC-2009 15:45:26; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40861  
7; 2046.8; 23-DEC-2009 15:48:13; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;40861  
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  
10; 2607.7; 23-DEC-2009 15:57:34; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40861  
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  
16; 4550.6; 23-DEC-2009 16:29:57; Bright; 38.0; 83; ; 2.38; 11000;occ; 76; 0;40861  
17; 4769.7; 23-DEC-2009 16:33:36; Bright; 46.5; 111; 8Eta Boo ; 2.68; 6000;occ; 93; 0;40861  
18; 5419.9; 23-DEC-2009 16:44:27; Dark ; 56.0; 15; 67Alp Vir ; 0.98; 28000;occ; 112; 0;40861  
19; 5690.8; 23-DEC-2009 16:48:57; Dark ; 43.5; 54; 5The Cen ; 2.06; 4500;occ; 87; 0;40861  
20; 5821.0; 23-DEC-2009 16:51:08; Dark ; 36.0; 106; 9Bet Crv ; 2.65; 5600;occ; 72; 0;40861  
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  
24; 6599.5; 23-DEC-2009 17:04:06; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;40861  
25; 6705.3; 23-DEC-2009 17:05:52; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;40861  
26; 6885.5; 23-DEC-2009 17:08:52; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40861  
27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861  
28; 7160.0; 23-DEC-2009 17:13:27; Dark ; 3.0; 117; Pi Pup ; 2.71; 3800;occ; 6; 0;40861

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1; 1012.6; 23-DEC-2009 17:11:35; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 64;40862  
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3; 1305.1; 23-DEC-2009 17:16:28; Dark ; 50.5; 23; 21Eps CMa ; 1.50; 26000;occ; 101; 0;40862  
4; 1404.4; 23-DEC-2009 17:18:07; Dark ; 50.0; 179; 240mi2CMa ; 3.03; 24000;occ; 100; 0;40862  
5; 1567.5; 23-DEC-2009 17:20:50; Dark ; 56.0; 1; 9Alp CMa ; -1.44; 11000;occ; 112; 0;40862  
6; 1757.0; 23-DEC-2009 17:24:00; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40862  
7; 1879.0; 23-DEC-2009 17:26:02; Dark ; 45.5; 30; 46Eps Ori ; 1.69; 30000;occ; 91; 0;40862  
8; 2046.5; 23-DEC-2009 17:28:49; Dark ; 60.0; 14; 58Alp Ori ; 0.87; 3000;occ; 120; 0;40862  
9; 2290.0; 23-DEC-2009 17:32:53; Bright; 41.0; 176; 23Zet Tau ; 3.02; 22000;occ; 82; 0;40862  
10; 2414.8; 23-DEC-2009 17:34:57; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40862  
11; 2607.5; 23-DEC-2009 17:38:10; Bright; 42.5; 107; 37The Aur ; 2.65; 11000;occ; 85; 0;40862  
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  
17; 4550.7; 23-DEC-2009 18:10:33; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40862



18; 4769.7; 23-DEC-2009 18:14:12; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40862  
 19; 5420.9; 23-DEC-2009 18:25:04; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;40862  
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 21; 5822.3; 23-DEC-2009 18:31:45; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40862  
 22; 6051.6; 23-DEC-2009 18:35:34; Dark ; 42.5; 64; Gam Cen ; 2.20; 10600;occ; 85; 0;40862  
 23; 6139.5; 23-DEC-2009 18:37:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40862  
 24; 6405.9; 23-DEC-2009 18:41:29; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40862  
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 26; 6705.8; 23-DEC-2009 18:46:28; Dark ; 56.0; 41; Eps Car ; 1.86; 4100;occ; 112; 0;40862  
 27; 6886.0; 23-DEC-2009 18:49:29; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40862

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 3; 1124.5; 23-DEC-2009 18:54:03; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40863  
 4; 1305.3; 23-DEC-2009 18:57:04; Dark ; 49.5; 23; 21Eps CMA ; 1.50; 26000;occ; 99; 0;40863  
 5; 1404.8; 23-DEC-2009 18:58:43; Dark ; 48.5; 179; 240mi2CMA ; 3.03; 24000;occ; 97; 0;40863  
 6; 1567.7; 23-DEC-2009 19:01:26; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;40863  
 7; 1757.0; 23-DEC-2009 19:04:36; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;40863  
 8; 1879.0; 23-DEC-2009 19:06:38; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40863  
 9; 2046.5; 23-DEC-2009 19:09:25; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;40863  
 10; 2289.8; 23-DEC-2009 19:13:28; Bright; 40.0; 176; 23Zet Tau ; 3.02; 22000;occ; 80; 0;40863  
 11; 2414.6; 23-DEC-2009 19:15:33; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40863  
 12; 2607.1; 23-DEC-2009 19:18:46; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40863  
 13; 2710.1; 23-DEC-2009 19:20:29; Bright; 43.0; 6; 13Alp Aur ; 0.08; 3400;occ; 86; 0;40863  
 14; 3700.2; 23-DEC-2009 19:36:59; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40863  
 15; 3953.7; 23-DEC-2009 19:41:12; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40863  
 16; 4127.8; 23-DEC-2009 19:44:06; Bright; 61.0; 39; 85Eta UMA ; 1.85; 24000;occ; 122; 0;40863  
 17; 4347.0; 23-DEC-2009 19:47:46; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40863  
 18; 4550.9; 23-DEC-2009 19:51:10; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40863  
 19; 4770.0; 23-DEC-2009 19:54:49; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40863  
 20; 5421.9; 23-DEC-2009 20:05:41; Dark ; 58.0; 15; 67Alp Vir ; 0.98; 28000;occ; 116; 0;40863  
 21; 5691.8; 23-DEC-2009 20:10:11; Dark ; 49.5; 54; 5The Cen ; 2.06; 4500;occ; 99; 0;40863  
 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863  
 23; 6052.0; 23-DEC-2009 20:16:11; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40863  
 24; 6140.3; 23-DEC-2009 20:17:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40863  
 25; 6406.8; 23-DEC-2009 20:22:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40863  
 26; 6600.5; 23-DEC-2009 20:25:19; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40863  
 27; 6706.2; 23-DEC-2009 20:27:05; Dark ; 55.5; 41; Eps Car ; 1.86; 4100;occ; 111; 0;40863  
 28; 6886.5; 23-DEC-2009 20:30:05; Dark ; 17.0; 34; Gam2Vel ; 1.79; 23000;occ; 34; 0;40863

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 4; 18.5; 24-DEC-2009 01:18:01; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40867  
 5; 107.0; 24-DEC-2009 01:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40867  
 6; 373.5; 24-DEC-2009 01:23:56; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;40867  
 7; 566.3; 24-DEC-2009 01:27:09; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40867  
 8; 671.7; 24-DEC-2009 01:28:54; Dark ; 50.0; 41; Eps Car ; 1.86; 4100;occ; 100; 0;40867  
 9; 852.4; 24-DEC-2009 01:31:55; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40867  
 10; 983.8; 24-DEC-2009 01:34:06; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40867  
 11; 1126.1; 24-DEC-2009 01:36:28; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40867  
 12; 1306.6; 24-DEC-2009 01:39:29; Dark ; 49.0; 23; 21Eps CMA ; 1.50; 26000;occ; 98; 0;40867  
 13; 1405.7; 24-DEC-2009 01:41:08; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40867  
 14; 1568.1; 24-DEC-2009 01:43:50; Dark ; 52.5; 1; 9Alp CMA ; -1.44; 11000;occ; 105; 0;40867  
 15; 1757.2; 24-DEC-2009 01:46:59; Dark ; 44.5; 7; 19Bet Ori ; 0.10; 14000;occ; 89; 0;40867  
 16; 1878.9; 24-DEC-2009 01:49:01; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40867  
 17; 2045.7; 24-DEC-2009 01:51:48; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;40867  
 18; 2288.8; 24-DEC-2009 01:55:51; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40867  
 19; 2413.3; 24-DEC-2009 01:57:56; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40867  
 20; 2605.2; 24-DEC-2009 02:01:07; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;40867  
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 22; 3699.8; 24-DEC-2009 02:19:22; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;40867  
 23; 3952.3; 24-DEC-2009 02:23:35; Bright; 47.0; 32; 77Eps UMA ; 1.76; 11000;occ; 94; 0;40867  
 24; 4127.1; 24-DEC-2009 02:26:29; Bright; 53.5; 39; 85Eta UMA ; 1.85; 24000;occ; 107; 0;40867

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 3; -1483.9; 24-DEC-2009 02:33:34; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40867

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5; -610.0; 24-DEC-2009 02:48:08; Dark ; 62.5; 15; 67Alp Vir ; 0.98; 28000;occ; 125; 0;40867  
6; -342.0; 24-DEC-2009 02:52:36; Dark ; 43.0; 54; 5The Cen ; 2.06; 4500;occ; 86; 0;40867  
7; -223.9; 24-DEC-2009 02:54:34; Dark ; 42.5; 123; Iot Cen ; 2.75; 10200;occ; 85; 0;40867  
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  
10; 374.6; 24-DEC-2009 03:04:33; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40868  
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12; 672.3; 24-DEC-2009 03:09:31; Dark ; 44.0; 41; Eps Car ; 1.86; 4100;occ; 88; 0;40868  
13; 852.9; 24-DEC-2009 03:12:31; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40868  
14; 984.4; 24-DEC-2009 03:14:43; Dark ; 48.5; 70; Zet Pup ; 2.25; 39000;occ; 97; 0;40868  
15; 1126.6; 24-DEC-2009 03:17:05; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;40868  
16; 1306.7; 24-DEC-2009 03:20:05; Dark ; 49.5; 23; 21Eps CMa ; 1.50; 26000;occ; 99; 0;40868  
17; 1406.1; 24-DEC-2009 03:21:44; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40868  
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19; 1757.4; 24-DEC-2009 03:27:36; Dark ; 45.5; 7; 19Bet Ori ; 0.10; 14000;occ; 91; 0;40868  
20; 1878.9; 24-DEC-2009 03:29:37; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40868  
21; 2045.8; 24-DEC-2009 03:32:24; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40868  
22; 2288.7; 24-DEC-2009 03:36:27; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40868  
23; 2413.4; 24-DEC-2009 03:38:32; Bright; 40.5; 28; 12Bet Tau ; 1.65; 15200;occ; 81; 0;40868  
24; 2604.8; 24-DEC-2009 03:41:43; Bright; 42.0; 107; 37The Aur ; 2.65; 11000;occ; 84; 0;40868  
25; 2709.1; 24-DEC-2009 03:43:27; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40868

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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
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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
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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
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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
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11;	2590.0;	26-DEC-2009	19:24:14;	Bright;		40.0;	107;	37The Aur	;	2.65;	11000;	occ;	80;	0;	40906
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17;	4559.5;	26-DEC-2009	19:57:03;	Bright;		39.0;	83;		;	2.38;	11000;	occ;	78;	0;	40906
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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
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 14; 4118.0; 28-DEC-2009 15:25:16; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40932  
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 23; 6201.8; 28-DEC-2009 16:00:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40932  
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 25; 6639.9; 28-DEC-2009 16:07:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40932  
 26; 6739.7; 28-DEC-2009 16:08:58; Dark ; 52.5; 41; Eps Car ; 1.86; 4100;occ; 105; 0;40932  
 27; 6926.9; 28-DEC-2009 16:12:05; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40932  
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