

# GOMOS Daily Report 06-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	08DEC2009 04:35:39
Data source version	GOMOS/5.00L04
Start time of products	06DEC2009 00:05:50
Stop time of products	06DEC2009 23:57:15
Store outputs in DB	Yes
Nb of level 1b prods	132
Nb of prods with errors	1

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

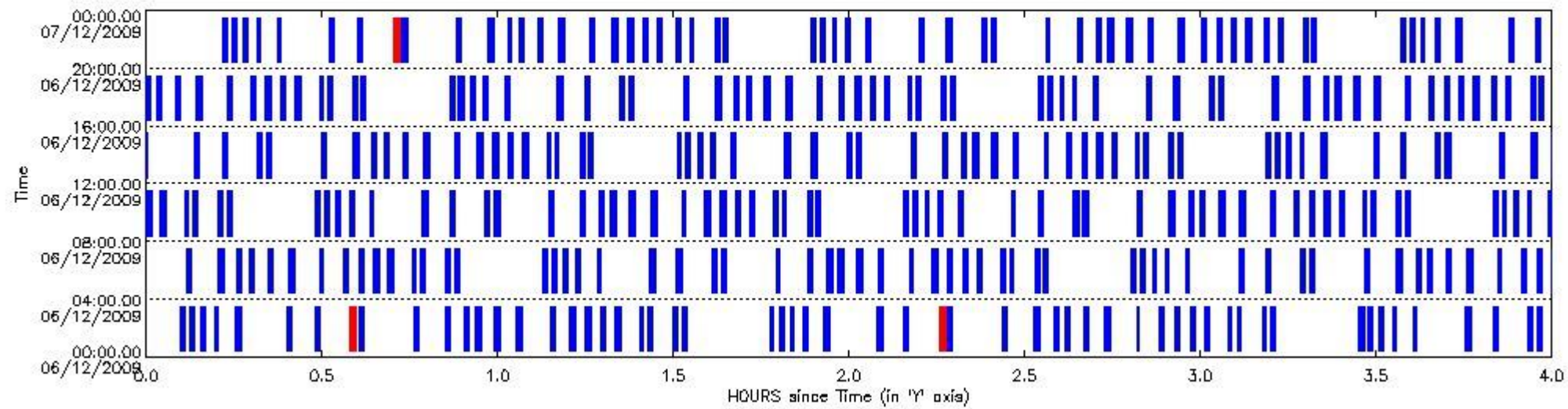
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
06-DEC-2009 00:34:46	4GamCrv	100	40608
06-DEC-2009 02:15:23	4GamCrv	100	40609
06-DEC-2009 20:42:09	4GamCrv	100	40620

### 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_1PNPDE20091206_000550_000000482084_00474_40608_6583.N1	06-DEC-2009 00:05:50	Bright	48.000	36	50Alp UMa	1.8000	6300.0	96	40608	No
2	GOM_TRA_1PNPDE20091206_000724_000000462084_00474_40608_6584.N1	06-DEC-2009 00:07:24	Bright	46.000	82	48Bet UMa	2.3650	10600.	92	40608	No
3	GOM_TRA_1PNPDE20091206_000923_000000412084_00474_40608_6585.N1	06-DEC-2009 00:09:23	Bright	40.500	32	77Eps UMa	1.7630	11000.	81	40608	No
4	GOM_TRA_1PNPDE20091206_001136_000000362084_00474_40608_6586.N1	06-DEC-2009 00:11:36	Bright	36.000	39	85Eta UMa	1.8540	24000.	72	40608	No
5	GOM_TRA_1PNPDE20091206_001507_000000612084_00474_40608_6587.N1	06-DEC-2009 00:15:07	Bright	61.000	152	12Alp2CVn	2.8900	11000.	122	40608	No
6	GOM_TRA_1PNPDE20091206_002405_000000442084_00474_40608_6588.N1	06-DEC-2009 00:24:05	Bright	43.500	138	47Eps Vir	2.8280	4700.0	87	40608	No
7	GOM_TRA_1PNPDE20091206_002841_000000522084_00474_40608_6589.N1	06-DEC-2009 00:28:41	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	40608	No
8	GOM_TRA_1PNPDE20091206_003614_000000522084_00474_40608_6586.N1	06-DEC-2009 00:36:14	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40608	No

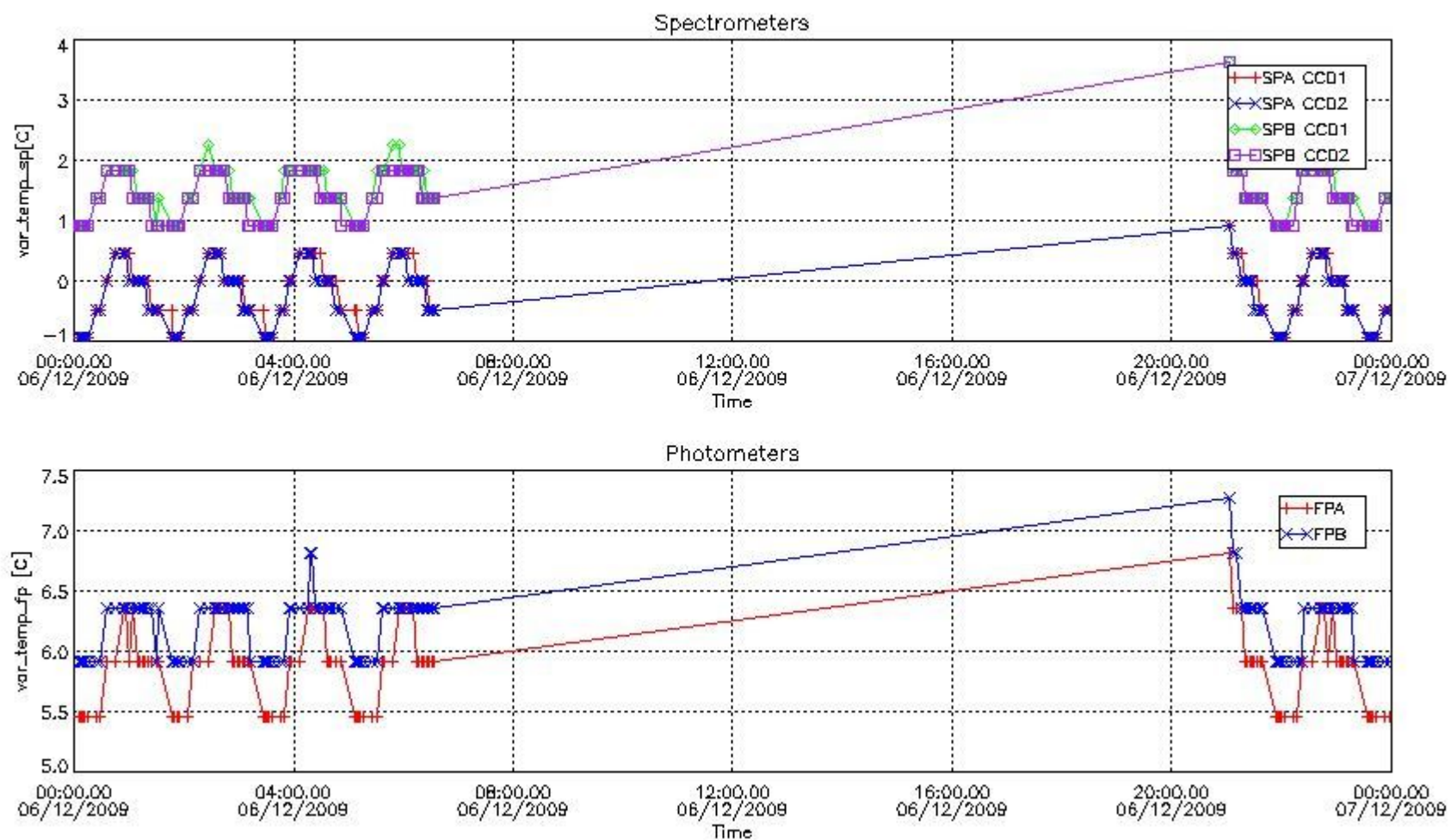
9	GOM_TRA_1PNPDE20091206_004537_000000522084_00475_40609_6587.N1	06-DEC-2009 00:45:37	Dark	52.000	113	Mu Vel	2.6920	5000.0	104	40609	No
10	GOM_TRA_1PNPDE20091206_005418_000000522084_00475_40609_6588.N1	06-DEC-2009 00:54:18	Dark	51.500	34	Gam2Vel	1.7930	23000.	103	40609	No
11	GOM_TRA_1PNPDE20091206_005613_000000562084_00475_40609_6589.N1	06-DEC-2009 00:56:13	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40609	No
12	GOM_TRA_1PNPDE20091206_005927_000000582084_00475_40609_6590.N1	06-DEC-2009 00:59:27	Dark	58.000	117	Pi Pup	2.7060	3800.0	116	40609	No
13	GOM_TRA_1PNPDE20091206_010304_000000612084_00475_40609_6591.N1	06-DEC-2009 01:03:04	Dark	61.000	23	21Eps CMa	1.5020	26000.	122	40609	No
14	GOM_TRA_1PNPDE20091206_010857_000000502084_00475_40609_6592.N1	06-DEC-2009 01:08:57	Straylight	49.500	101	11Alp Lep	2.5820	7000.0	99	40609	No
15	GOM_TRA_1PNPDE20091206_011220_000000562084_00475_40609_6593.N1	06-DEC-2009 01:12:20	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	40609	No
16	GOM_TRA_1PNPDE20091206_011501_000000562084_00475_40609_6594.N1	06-DEC-2009 01:15:01	Straylight	55.500	30	46Eps Ori	1.6940	30000.	111	40609	No
17	GOM_TRA_1PNPDE20091206_011735_000000562084_00475_40609_6595.N1	06-DEC-2009 01:17:35	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40609	No
18	GOM_TRA_1PNPDE20091206_012002_000000592084_00475_40609_6596.N1	06-DEC-2009 01:20:02	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40609	No
19	GOM_TRA_1PNPDE20091206_012409_000000372084_00475_40609_6597.N1	06-DEC-2009 01:24:09	Bright	37.000	150	44Zet Per	2.8900	28000.	74	40609	No
20	GOM_TRA_1PNPDE20091206_012538_000000452084_00475_40609_6598.N1	06-DEC-2009 01:25:38	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	40609	No
21	GOM_TRA_1PNPDE20091206_012956_000000472084_00475_40609_6599.N1	06-DEC-2009 01:29:56	Bright	47.000	6	13Alp Aur	0.080000	3400.0	94	40609	No
22	GOM_TRA_1PNPDE20091206_013125_000000492084_00475_40609_6600.N1	06-DEC-2009 01:31:25	Bright	48.500	42	34Bet Aur	1.9000	10200.	97	40609	No
23	GOM_TRA_1PNPDE20091206_014626_000000442084_00475_40609_6601.N1	06-DEC-2009 01:46:26	Bright	44.000	36	50Alp UMa	1.8000	6300.0	88	40609	No
24	GOM_TRA_1PNPDE20091206_014800_000000482084_00475_40609_6602.N1	06-DEC-2009 01:48:00	Bright	48.000	82	48Bet UMa	2.3650	10600.	96	40609	No
25	GOM_TRA_1PNPDE20091206_014958_000000382084_00475_40609_6603.N1	06-DEC-2009 01:49:58	Bright	38.000	32	77Eps UMa	1.7630	11000.	76	40609	No
26	GOM_TRA_1PNPDE20091206_015212_000000372084_00475_40609_6604.N1	06-DEC-2009 01:52:12	Bright	36.500	39	85Eta UMa	1.8540	24000.	73	40609	No
27	GOM_TRA_1PNPDE20091206_015543_000000612084_00475_40609_6605.N1	06-DEC-2009 01:55:43	Bright	61.000	152	12Alp2CVn	2.8900	11000.	122	40609	No
28	GOM_TRA_1PNPDE20091206_020441_000000622084_00475_40609_6606.N1	06-DEC-2009 02:04:41	Bright	61.500	138	47Eps Vir	2.8280	4700.0	123	40609	No
29	GOM_TRA_1PNPDE20091206_020918_000000542084_00475_40609_6608.N1	06-DEC-2009 02:09:18	Bright	54.000	121	29Gam Vir	2.7400	7200.0	108	40609	No
30	GOM_TRA_1PNPDE20091206_021651_000000522084_00475_40609_6609.N1	06-DEC-2009 02:16:51	Dark	51.500	171	2Eps Crv	3.0010	4250.0	103	40609	No
31	GOM_TRA_1PNPDE20091206_022614_000000462084_00476_40610_6610.N1	06-DEC-2009 02:26:14	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	40610	No
32	GOM_TRA_1PNPDE20091206_023455_000000472084_00476_40610_6611.N1	06-DEC-2009 02:34:55	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40610	No
33	GOM_TRA_1PNPDE20091206_023650_000000562084_00476_40610_6612.N1	06-DEC-2009 02:36:50	Dark	56.000	70	Zet Pup	2.2460	39000.	112	40610	No
34	GOM_TRA_1PNPDE20091206_024004_000000552084_00476_40610_6613.N1	06-DEC-2009 02:40:04	Dark	54.500	117	Pi Pup	2.7060	3800.0	109	40610	No
35	GOM_TRA_1PNPDE20091206_024341_000000622084_00476_40610_6614.N1	06-DEC-2009 02:43:41	Dark	62.000	23	21Eps CMa	1.5020	26000.	124	40610	No
36	GOM_TRA_1PNPDE20091206_024903_000000252084_00476_40610_6615.N1	06-DEC-2009 02:49:03	Straylight	25.000	47	2Bet CMa	1.9760	28000.	50	40610	No
37	GOM_TRA_1PNPDE20091206_025256_000000562084_00476_40610_6616.N1	06-DEC-2009 02:52:56	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	40610	No
38	GOM_TRA_1PNPDE20091206_025537_000000562084_00476_40610_6617.N1	06-DEC-2009 02:55:37	Straylight	55.500	30	46Eps Ori	1.6940	30000.	111	40610	No
39	GOM_TRA_1PNPDE20091206_025811_000000562084_00476_40610_6618.N1	06-DEC-2009 02:58:11	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40610	No
40	GOM_TRA_1PNPDE20091206_030038_000000592084_00476_40610_6619.N1	06-DEC-2009 03:00:38	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40610	No
41	GOM_TRA_1PNPDE20091206_030445_000000382084_00476_40610_6620.N1	06-DEC-2009 03:04:45	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40610	No
42	GOM_TRA_1PNPDE20091206_030613_000000452084_00476_40610_6621.N1	06-DEC-2009 03:06:13	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	40610	No
43	GOM_TRA_1PNPDE20091206_031031_000000462084_00476_40610_6622.N1	06-DEC-2009 03:10:31	Bright	45.500	6	13Alp Aur	0.080000	3400.0	91	40610	No
44	GOM_TRA_1PNPDE20091206_031200_000000492084_00476_40610_6623.N1	06-DEC-2009 03:12:00	Bright	49.000	42	34Bet Aur	1.9000	10200.	98	40610	No
45	GOM_TRA_1PNPDE20091206_032701_000000542084_00476_40610_6624.N1	06-DEC-2009 03:27:01	Bright	54.000	36	50Alp UMa	1.8000	6300.0	108	40610	No
46	GOM_TRA_1PNPDE20091206_032835_000000502084_00476_40610_6631.N1	06-DEC-2009 03:28:35	Bright	50.000	82	48Bet UMa	2.3650	10600.	100	40610	No
47	GOM_TRA_1PNPDE20091206_033034_000000372084_00476_40610_6632.N1	06-DEC-2009 03:30:34	Bright	37.000	32	77Eps UMa	1.7630	11000.	74	40610	No
48	GOM_TRA_1PNPDE20091206_033248_000000352084_00476_40610_6633.N1	06-DEC-2009 03:32:48	Bright	34.500	39	85Eta UMa	1.8540	24000.	69	40610	No
49	GOM_TRA_1PNPDE20091206_033619_000000412084_00476_40610_6634.N1	06-DEC-2009 03:36:19	Bright	40.500	152	12Alp2CVn	2.8900	11000.	81	40610	No
50	GOM_TRA_1PNPDE20091206_034518_000000622084_00476_40610_6635.N1	06-DEC-2009 03:45:18	Bright	62.000	138	47Eps Vir	2.8280	4700.0	124	40610	No
51	GOM_TRA_1PNPDE20091206_034955_000000532084_00476_40610_6636.N1	06-DEC-2009 03:49:55	Bright	53.000	121	29Gam Vir	2.7400	7200.0	106	40610	No
52	GOM_TRA_1PNPDE20091206_035552_000000512084_00476_40610_6637.N1	06-DEC-2009 03:55:52	Dark	51.000	100	4Gam Crv	2.5800	13100.	102	40610	No
53	GOM_TRA_1PNPDE20091206_035728_000000542084_00476_40610_6638.N1	06-DEC-2009 03:57:28	Dark	53.500	171	2Eps Crv	3.0010	4250.0	107	40610	No
54	GOM_TRA_1PNPDE20091206_040651_000000462084_00477_40611_6639.N1	06-DEC-2009 04:06:51	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40611	No
55	GOM_TRA_1PNPDE20091206_041532_000000472084_00477_40611_6640.N1	06-DEC-2009 04:15:32	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40611	No
56	GOM_TRA_1PNPDE20091206_041727_000000522084_00477_40611_6641.N1	06-DEC-2009 04:17:27	Dark	52.000	70	Zet Pup	2.2460	39000.	104	40611	No
57	GOM_TRA_1PNPDE20091206_042041_000000592084_00477_40611_6642.N1	06-DEC-2009 04:20:41	Dark	59.000	117	Pi Pup	2.7060	3800.0	118	40611	No
58	GOM_TRA_1PNPDE20091206_042417_000000662084_00477_40611_6643.N1	06-DEC-2009 04:24:17	Dark	65.500	23	21Eps CMa	1.5020	26000.	131	40611	No
59	GOM_TRA_1PNPDE20091206_042939_000000252084_00477_40611_6644.N1	06-DEC-2009 04:29:39	Straylight	25.000	47	2Bet CMa	1.9760	28000.	50	40611	No
60	GOM_TRA_1PNPDE20091206_043332_000000562084_00477_40611_6645.N1	06-DEC-2009 04:33:32	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	40611	No
61	GOM_TRA_1PNPDE20091206_043613_000000582084_00477_40611_6646.N1	06-DEC-2009 04:36:13	Straylight	57.500	30	46Eps Ori	1.6940	30000.	115	40611	No
62	GOM_TRA_1PNPDE20091206_043847_000000562084_00477_40611_6647.N1	06-DEC-2009 04:38:47	Tw_i_and_stray	56.000	27	24Gam Ori	1.6360	26000.	112	40611	No
63	GOM_TRA_1PNPDE20091206_044114_000000592084_00477_40611_6648.N1	06-DEC-2009 04:41:14	Bright	59.000	13	87Alp Tau	0.86700	3800.0	118	40611	No
64	GOM_TRA_1PNPDE20091206_044521_000000382084_00477_40611_6649.N1	06-DEC-2009 04:45:21	Bright	38.000	150	44Zet Per	2.8900	28000.	76	40611	No
65	GOM_TRA_1PNPDE20091206_044649_000000452084_00477_40611_6650.N1	06-DEC-2009 04:46:49	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	40611	No
66	GOM_TRA_1PNPDE20091206_045107_000000472084_00477_40611_6651.N1	06-DEC-2009 04:51:07	Bright	46.500	6	13Alp Aur	0.080000	3400.0	93	40611	No
67	GOM_TRA_1PNPDE20091206_045235_000000482084_00477_40611_6652.N1	06-DEC-2009 04:52:35	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	40611	No



68	GOM_TRA_1PNPDE20091206_050737_000000472084_00477_40611_6657.N1	06-DEC-2009 05:07:37	Bright	46.500	36	50Alp UMa	1.8000	6300.0	93	40611	No
69	GOM_TRA_1PNPDE20091206_050911_000000472084_00477_40611_6658.N1	06-DEC-2009 05:09:11	Bright	47.000	82	48Bet UMa	2.3650	10600.	94	40611	No
70	GOM_TRA_1PNPDE20091206_051110_000000422084_00477_40611_6659.N1	06-DEC-2009 05:11:10	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40611	No
71	GOM_TRA_1PNPDE20091206_051324_000000362084_00477_40611_6660.N1	06-DEC-2009 05:13:24	Bright	35.500	39	85Eta UMa	1.8540	24000.	71	40611	No
72	GOM_TRA_1PNPDE20091206_051655_000000422084_00477_40611_6661.N1	06-DEC-2009 05:16:55	Bright	41.500	152	12Alp2CVn	2.8900	11000.	83	40611	No
73	GOM_TRA_1PNPDE20091206_052554_000000622084_00477_40611_6662.N1	06-DEC-2009 05:25:54	Bright	62.000	138	47Eps Vir	2.8280	4700.0	124	40611	No
74	GOM_TRA_1PNPDE20091206_053032_000000552084_00477_40611_6663.N1	06-DEC-2009 05:30:32	Bright	54.500	121	29Gam Vir	2.7400	7200.0	109	40611	No
75	GOM_TRA_1PNPDE20091206_053629_000000532084_00477_40611_6664.N1	06-DEC-2009 05:36:29	Dark	53.000	100	4Gam Crv	2.5800	13100.	106	40611	No
76	GOM_TRA_1PNPDE20091206_053805_000000532084_00477_40611_6665.N1	06-DEC-2009 05:38:05	Dark	52.500	171	2Eps Crv	3.0010	4250.0	105	40611	No
77	GOM_TRA_1PNPDE20091206_054727_000000442084_00478_40612_6666.N1	06-DEC-2009 05:47:27	Dark	43.500	113	Mu Vel	2.6920	5000.0	87	40612	No
78	GOM_TRA_1PNPDE20091206_055608_000000602084_00478_40612_6667.N1	06-DEC-2009 05:56:08	Dark	59.500	34	Gam2Vel	1.7930	23000.	119	40612	No
79	GOM_TRA_1PNPDE20091206_055804_000000582084_00478_40612_6668.N1	06-DEC-2009 05:58:04	Dark	57.500	70	Zet Pup	2.2460	39000.	115	40612	No
80	GOM_TRA_1PNPDE20091206_060117_000000572084_00478_40612_6669.N1	06-DEC-2009 06:01:17	Dark	57.000	117	Pi Pup	2.7060	3800.0	114	40612	No
81	GOM_TRA_1PNPDE20091206_060454_000000612084_00478_40612_6670.N1	06-DEC-2009 06:04:54	Dark	61.000	23	21Eps CMa	1.5020	26000.	122	40612	No
82	GOM_TRA_1PNPDE20091206_061016_000000312084_00478_40612_6671.N1	06-DEC-2009 06:10:16	Straylight	31.000	47	2Bet CMa	1.9760	28000.	62	40612	No
83	GOM_TRA_1PNPDE20091206_061408_000000562084_00478_40612_6672.N1	06-DEC-2009 06:14:08	Straylight	56.000	7	19Bet Ori	0.10000	14000.	112	40612	No
84	GOM_TRA_1PNPDE20091206_061649_000000532084_00478_40612_6673.N1	06-DEC-2009 06:16:49	Straylight	53.000	30	46Eps Ori	1.6940	30000.	106	40612	No
85	GOM_TRA_1PNPDE20091206_061922_000000562084_00478_40612_6674.N1	06-DEC-2009 06:19:22	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40612	No
86	GOM_TRA_1PNPDE20091206_062150_000000562084_00478_40612_6675.N1	06-DEC-2009 06:21:50	Bright	55.500	13	87Alp Tau	0.86700	3800.0	111	40612	No
87	GOM_TRA_1PNPDE20091206_062557_000000382084_00478_40612_6676.N1	06-DEC-2009 06:25:57	Bright	37.500	150	44Zet Per	2.8900	28000.	75	40612	No
88	GOM_TRA_1PNPDE20091206_062724_000000452084_00478_40612_6677.N1	06-DEC-2009 06:27:24	Bright	45.000	114	3lot Aur	2.6930	4600.0	90	40612	No
89	GOM_TRA_1PNPDE20091206_063142_000000492084_00478_40612_6678.N1	06-DEC-2009 06:31:42	Bright	49.000	6	13Alp Aur	0.080000	3400.0	98	40612	No
90	GOM_TRA_1PNPDE20091206_063311_000000472084_00478_40612_6679.N1	06-DEC-2009 06:33:11	Bright	47.000	42	34Bet Aur	1.9000	10200.	94	40612	No
91	GOM_TRA_1PNPDE20091206_210336_000000542084_00487_40621_6720.N1	06-DEC-2009 21:03:36	Dark	53.500	70	Zet Pup	2.2460	39000.	107	40621	Yes
92	GOM_TRA_1PNPDE20091206_210647_000000612084_00487_40621_6721.N1	06-DEC-2009 21:06:47	Dark	60.500	117	Pi Pup	2.7060	3800.0	121	40621	No
93	GOM_TRA_1PNPDE20091206_211022_000000622084_00487_40621_6722.N1	06-DEC-2009 21:10:22	Dark	62.000	23	21Eps CMa	1.5020	26000.	124	40621	No
94	GOM_TRA_1PNPDE20091206_211540_000000512084_00487_40621_6723.N1	06-DEC-2009 21:15:40	Straylight	51.000	47	2Bet CMa	1.9760	28000.	102	40621	No
95	GOM_TRA_1PNPDE20091206_211931_000000562084_00487_40621_6724.N1	06-DEC-2009 21:19:31	Straylight	55.500	7	19Bet Ori	0.10000	14000.	111	40621	No
96	GOM_TRA_1PNPDE20091206_212209_000000562084_00487_40621_6725.N1	06-DEC-2009 21:22:09	Straylight	55.500	30	46Eps Ori	1.6940	30000.	111	40621	No
97	GOM_TRA_1PNPDE20091206_212442_000000562084_00487_40621_6726.N1	06-DEC-2009 21:24:42	Tw_i_and_stray	55.500	27	24Gam Ori	1.6360	26000.	111	40621	No
98	GOM_TRA_1PNPDE20091206_212711_000000522084_00487_40621_6727.N1	06-DEC-2009 21:27:11	Bright	52.000	13	87Alp Tau	0.86700	3800.0	104	40621	No
99	GOM_TRA_1PNPDE20091206_213019_000000512084_00487_40621_6728.N1	06-DEC-2009 21:30:19	Bright	50.500	176	23Zet Tau	3.0200	22000.	101	40621	No
100	GOM_TRA_1PNPDE20091206_213244_000000442084_00487_40621_6729.N1	06-DEC-2009 21:32:44	Bright	43.500	114	3lot Aur	2.6930	4600.0	87	40621	No
101	GOM_TRA_1PNPDE20091206_213701_000000612084_00487_40621_6730.N1	06-DEC-2009 21:37:01	Bright	60.500	6	13Alp Aur	0.080000	3400.0	121	40621	No
102	GOM_TRA_1PNPDE20091206_213827_000000482084_00487_40621_6731.N1	06-DEC-2009 21:38:27	Bright	48.000	42	34Bet Aur	1.9000	10200.	96	40621	No
103	GOM_TRA_1PNPDE20091206_215332_000000492084_00487_40621_6732.N1	06-DEC-2009 21:53:32	Bright	48.500	36	50Alp UMa	1.8000	6300.0	97	40621	No
104	GOM_TRA_1PNPDE20091206_215505_000000502084_00487_40621_6733.N1	06-DEC-2009 21:55:05	Bright	49.500	82	48Bet UMa	2.3650	10600.	99	40621	No
105	GOM_TRA_1PNPDE20091206_215708_000000452084_00487_40621_6734.N1	06-DEC-2009 21:57:08	Bright	45.000	32	77Eps UMa	1.7630	11000.	90	40621	No
106	GOM_TRA_1PNPDE20091206_215923_000000412084_00487_40621_6735.N1	06-DEC-2009 21:59:23	Bright	41.000	39	85Eta UMa	1.8540	24000.	82	40621	No
107	GOM_TRA_1PNPDE20091206_220255_000000432084_00487_40621_6736.N1	06-DEC-2009 22:02:55	Bright	42.500	152	12Alp2CVn	2.8900	11000.	85	40621	No
108	GOM_TRA_1PNPDE20091206_221158_000000432084_00487_40621_6737.N1	06-DEC-2009 22:11:58	Bright	42.500	138	47Eps Vir	2.8280	4700.0	85	40621	No
109	GOM_TRA_1PNPDE20091206_221638_000000542084_00487_40621_6738.N1	06-DEC-2009 22:16:38	Bright	53.500	121	29Gam Vir	2.7400	7200.0	107	40621	No
110	GOM_TRA_1PNPDE20091206_222238_000000512084_00487_40621_6740.N1	06-DEC-2009 22:22:38	Dark	50.500	100	4Gam Crv	2.5800	13100.	101	40621	No
111	GOM_TRA_1PNPDE20091206_222414_000000482084_00487_40621_6741.N1	06-DEC-2009 22:24:14	Dark	47.500	171	2Eps Crv	3.0010	4250.0	95	40621	No
112	GOM_TRA_1PNPDE20091206_223335_000000452084_00488_40622_6742.N1	06-DEC-2009 22:33:35	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40622	No
113	GOM_TRA_1PNPDE20091206_224216_000000512084_00488_40622_6743.N1	06-DEC-2009 22:42:16	Dark	50.500	34	Gam2Vel	1.7930	23000.	101	40622	No
114	GOM_TRA_1PNPDE20091206_224413_000000582084_00488_40622_6744.N1	06-DEC-2009 22:44:13	Dark	57.500	70	Zet Pup	2.2460	39000.	115	40622	No
115	GOM_TRA_1PNPDE20091206_224724_000000562084_00488_40622_6745.N1	06-DEC-2009 22:47:24	Dark	55.500	117	Pi Pup	2.7060	3800.0	111	40622	No
116	GOM_TRA_1PNPDE20091206_225059_000000592084_00488_40622_6746.N1	06-DEC-2009 22:50:59	Dark	58.500	23	21Eps CMa	1.5020	26000.	117	40622	No
117	GOM_TRA_1PNPDE20091206_225617_000000572084_00488_40622_6747.N1	06-DEC-2009 22:56:17	Straylight	57.000	47	2Bet CMa	1.9760	28000.	114	40622	No
118	GOM_TRA_1PNPDE20091206_230006_000000522084_00488_40622_6748.N1	06-DEC-2009 23:00:06	Straylight	51.500	7	19Bet Ori	0.10000	14000.	103	40622	No
119	GOM_TRA_1PNPDE20091206_230245_000000582084_00488_40622_6749.N1	06-DEC-2009 23:02:45	Straylight	58.000	30	46Eps Ori	1.6940	30000.	116	40622	No
120	GOM_TRA_1PNPDE20091206_230518_000000532084_00488_40622_6750.N1	06-DEC-2009 23:05:18	Tw_i_and_stray	52.500	27	24Gam Ori	1.6360	26000.	105	40622	No
121	GOM_TRA_1PNPDE20091206_230747_000000582084_00488_40622_6751.N1	06-DEC-2009 23:07:47	Bright	58.000	13	87Alp Tau	0.86700	3800.0	116	40622	No
122	GOM_TRA_1PNPDE20091206_231054_000000502084_00488_40622_6752.N1	06-DEC-2009 23:10:54	Bright	50.000	176	23Zet Tau	3.0200	22000.	100	40622	No
123	GOM_TRA_1PNPDE20091206_231319_000000442084_00488_40622_6753.N1	06-DEC-2009 23:13:19	Bright	43.500	114	3lot Aur	2.6930	4600.0	87	40622	No
124	GOM_TRA_1PNPDE20091206_231736_000000452084_00488_40622_6754.N1	06-DEC-2009 23:17:36	Bright	45.000	6	13Alp Aur	0.080000	3400.0	90	40622	No
125	GOM_TRA_1PNPDE20091206_231902_000000482084_00488_40622_6755.N1	06-DEC-2009 23:19:02	Bright	47.500	42	34Bet Aur	1.9000	10200.	95	40622	No
126	GOM_TRA_1PNPDE20091206_233408_000000472084_00488_40622_6756.N1	06-DEC-2009 23:34:08	Bright	47.000	36	50Alp UMa	1.8000	6300.0	94	40622	No

127	GOM_TRA_1PNPDE20091206_233541_000000492084_00488_40622_6757.N1	06-DEC-2009 23:35:41	Bright	48.500	82	48Bet UMa	2.3650	10600.	97	40622	No
128	GOM_TRA_1PNPDE20091206_233744_000000382084_00488_40622_6758.N1	06-DEC-2009 23:37:44	Bright	37.500	32	77Eps UMa	1.7630	11000.	75	40622	No
129	GOM_TRA_1PNPDE20091206_233959_000000552084_00488_40622_6759.N1	06-DEC-2009 23:39:59	Bright	55.000	39	85Eta UMa	1.8540	24000.	110	40622	No
130	GOM_TRA_1PNPDE20091206_234331_000000622084_00488_40622_6760.N1	06-DEC-2009 23:43:31	Bright	62.000	152	12Alp2CVn	2.8900	11000.	124	40622	No
131	GOM_TRA_1PNPDE20091206_235234_000000492084_00488_40622_6761.N1	06-DEC-2009 23:52:34	Bright	48.500	138	47Eps Vir	2.8280	4700.0	97	40622	No
132	GOM_TRA_1PNPDE20091206_235715_000000522084_00488_40622_6762.N1	06-DEC-2009 23:57:15	Bright	51.500	121	29Gam Vir	2.7400	7200.0	103	40622	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.

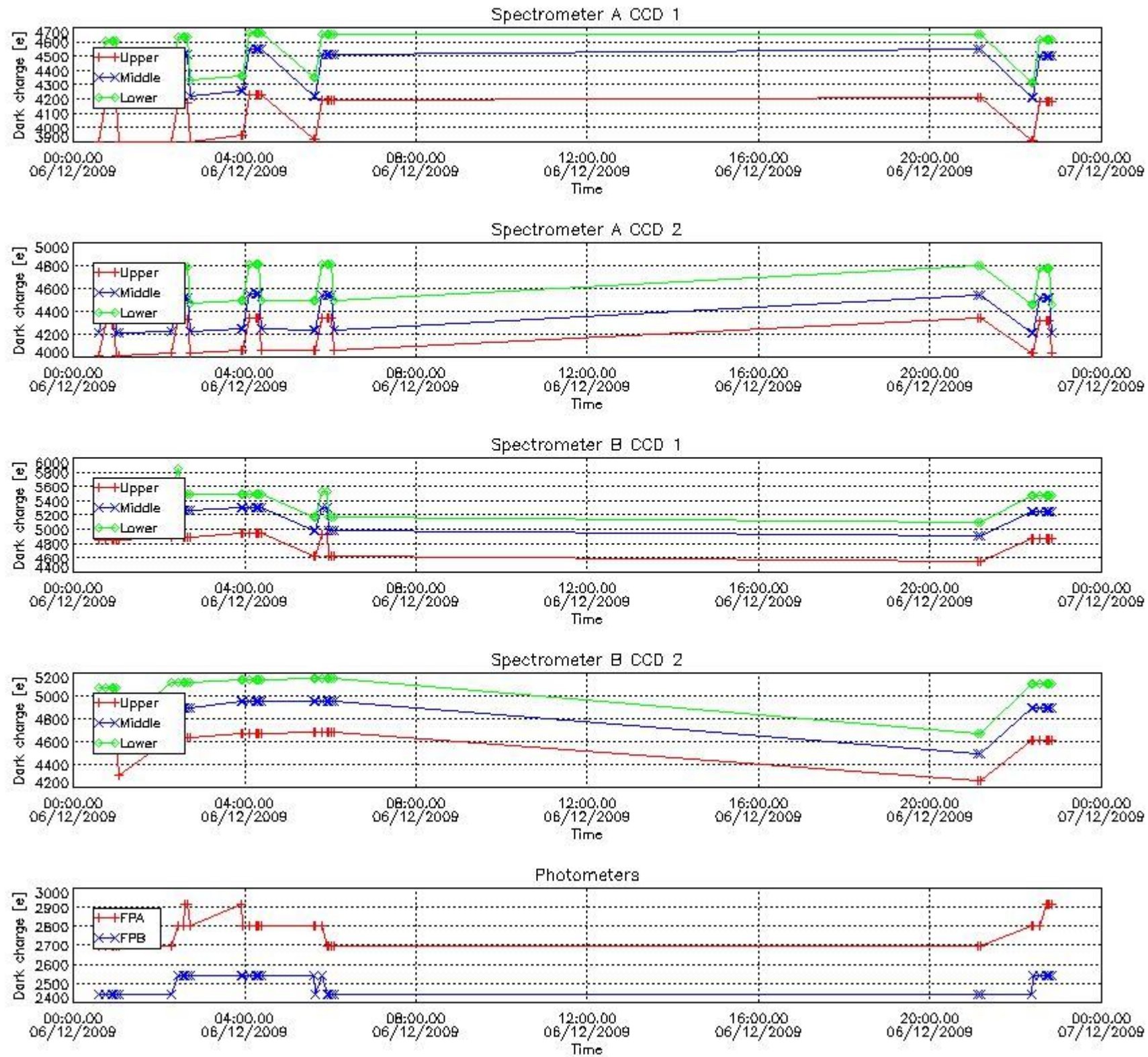
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091206_210336_000000542084_00487_40621_6720.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091206_210647_000000612084_00487_40621_6721.N1	DC map used
GOM_TRA_1PNPDE20091206_211022_000000622084_00487_40621_6722.N1	DC map used
GOM_TRA_1PNPDE20091206_211540_000000512084_00487_40621_6723.N1	DC map used

GOM_TRA_1PNPDE20091206_211931_000000562084_00487_40621_6724.N1	DC map used
GOM_TRA_1PNPDE20091206_212209_000000562084_00487_40621_6725.N1	DC map used
GOM_TRA_1PNPDE20091206_212442_000000562084_00487_40621_6726.N1	DC map used
GOM_TRA_1PNPDE20091206_212711_000000522084_00487_40621_6727.N1	DC map used
GOM_TRA_1PNPDE20091206_213019_000000512084_00487_40621_6728.N1	DC map used
GOM_TRA_1PNPDE20091206_213244_000000442084_00487_40621_6729.N1	DC map used
GOM_TRA_1PNPDE20091206_213701_000000612084_00487_40621_6730.N1	DC map used
GOM_TRA_1PNPDE20091206_213827_000000482084_00487_40621_6731.N1	DC map used
GOM_TRA_1PNPDE20091206_215332_000000492084_00487_40621_6732.N1	DC map used
GOM_TRA_1PNPDE20091206_215505_000000502084_00487_40621_6733.N1	DC map used
GOM_TRA_1PNPDE20091206_215708_000000452084_00487_40621_6734.N1	DC map used
GOM_TRA_1PNPDE20091206_215923_000000412084_00487_40621_6735.N1	DC map used
GOM_TRA_1PNPDE20091206_220255_000000432084_00487_40621_6736.N1	DC map used
GOM_TRA_1PNPDE20091206_221158_000000432084_00487_40621_6737.N1	DC map used
GOM_TRA_1PNPDE20091206_221638_000000542084_00487_40621_6738.N1	DC map used

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





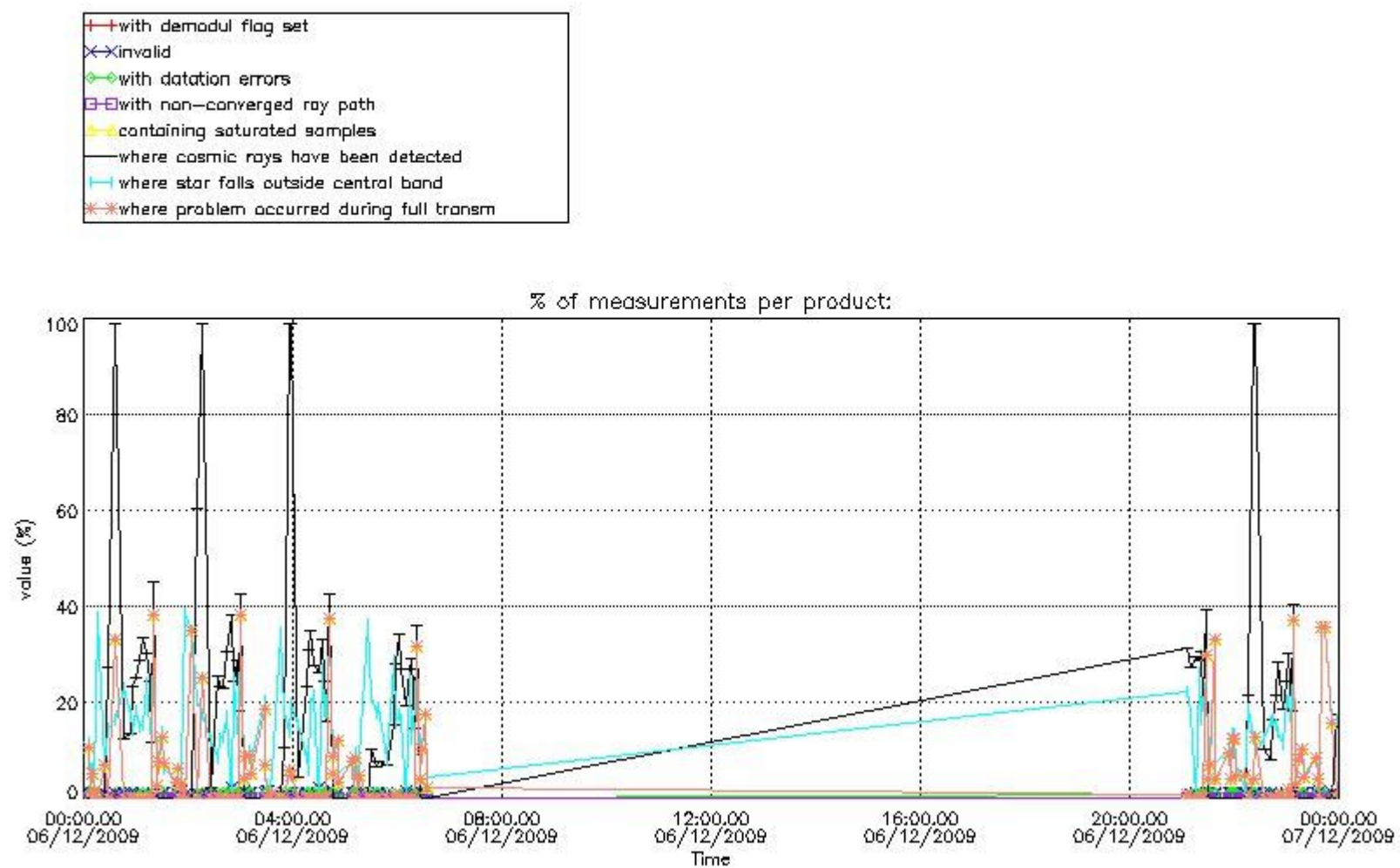
## 5. Demodulation flag and quality information monitoring

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:

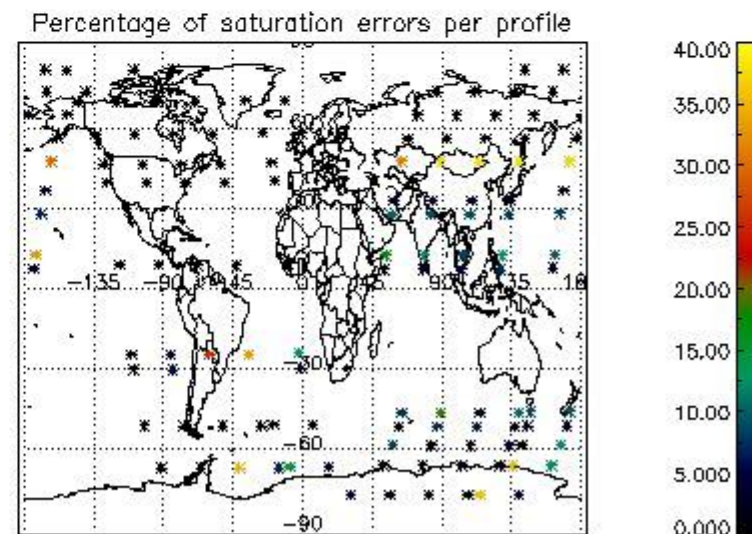
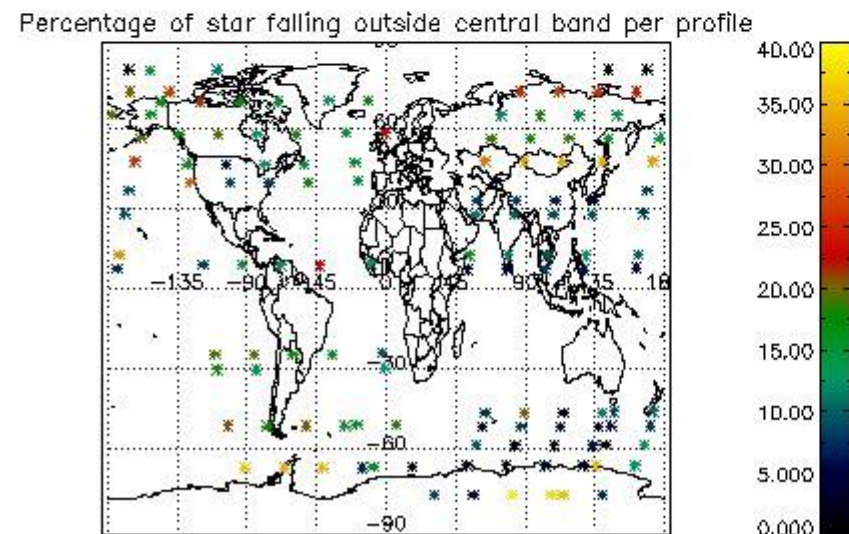
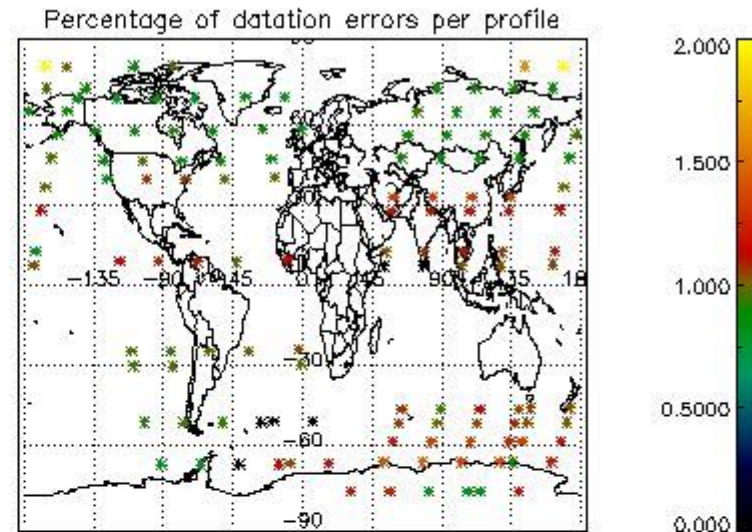
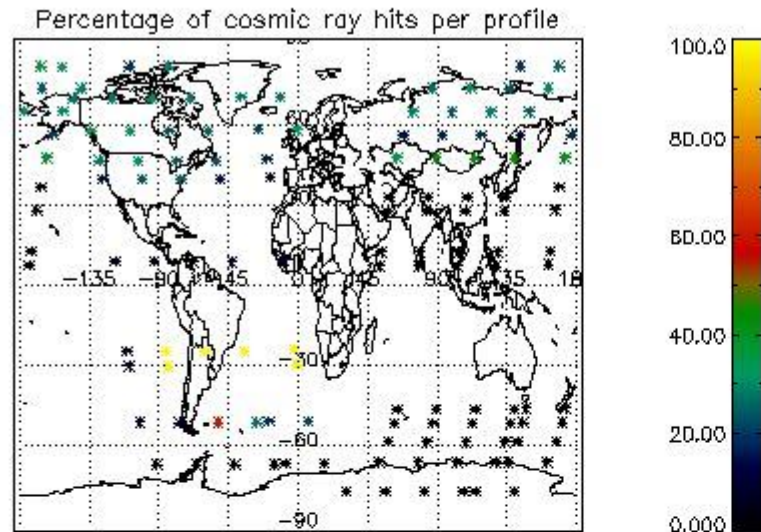
At least one measurement with demodulation flag set:	33.5878 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





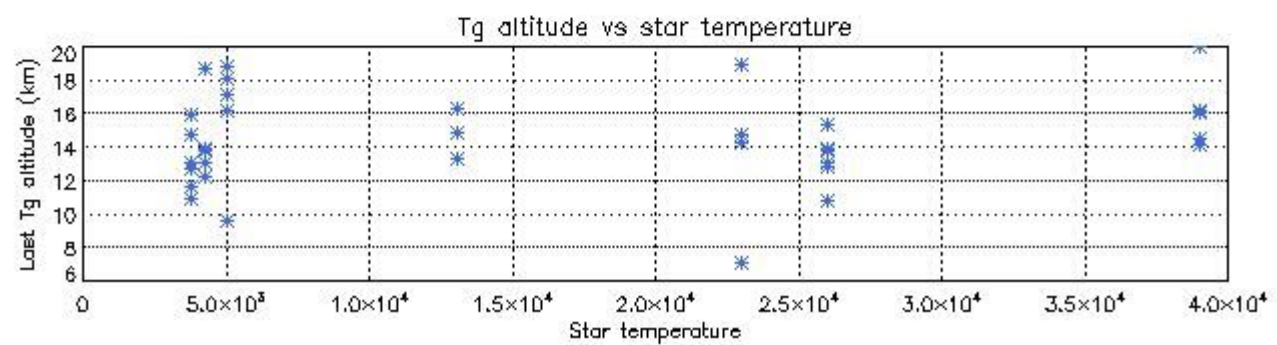
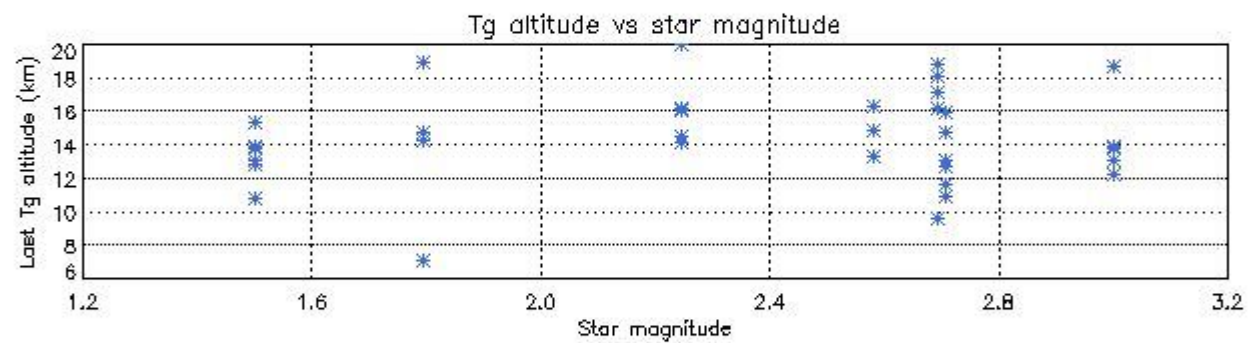
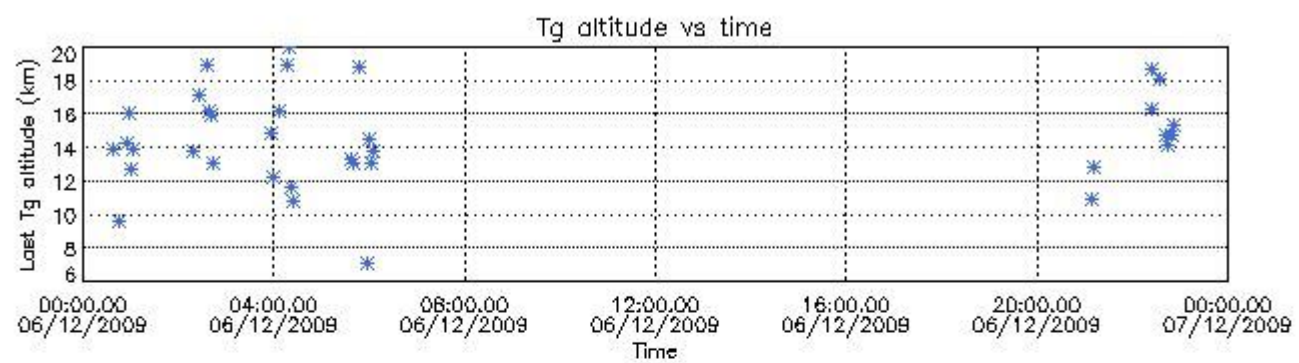
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	14.549	16.243	NaN
St. deviation:	2.8412	6.7243	NaN
Maximum:	19.970	27.810	NaN
Minimum:	7.0704	3.6722	NaN
Number of data:	35.000	72.000	NaN

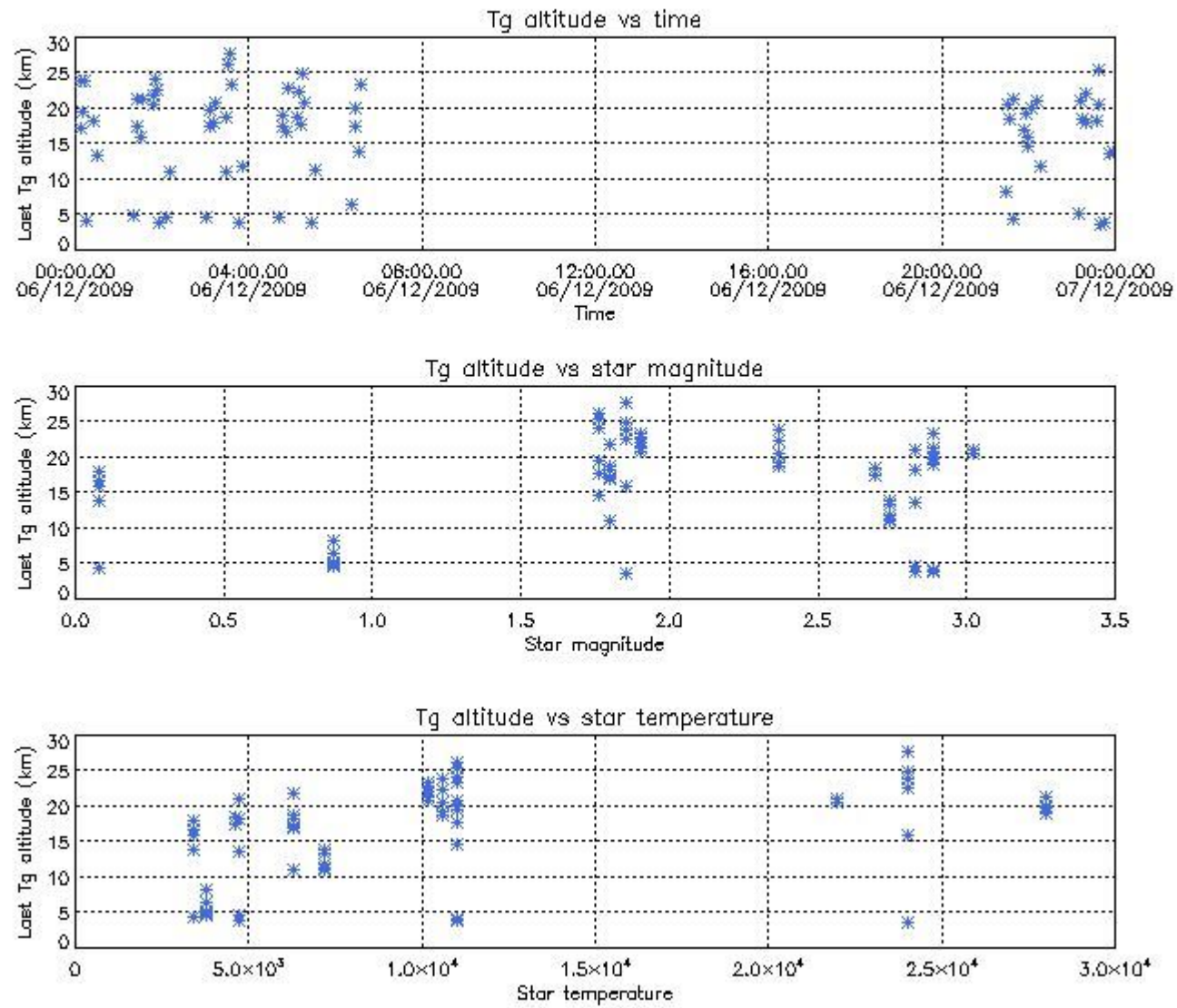
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



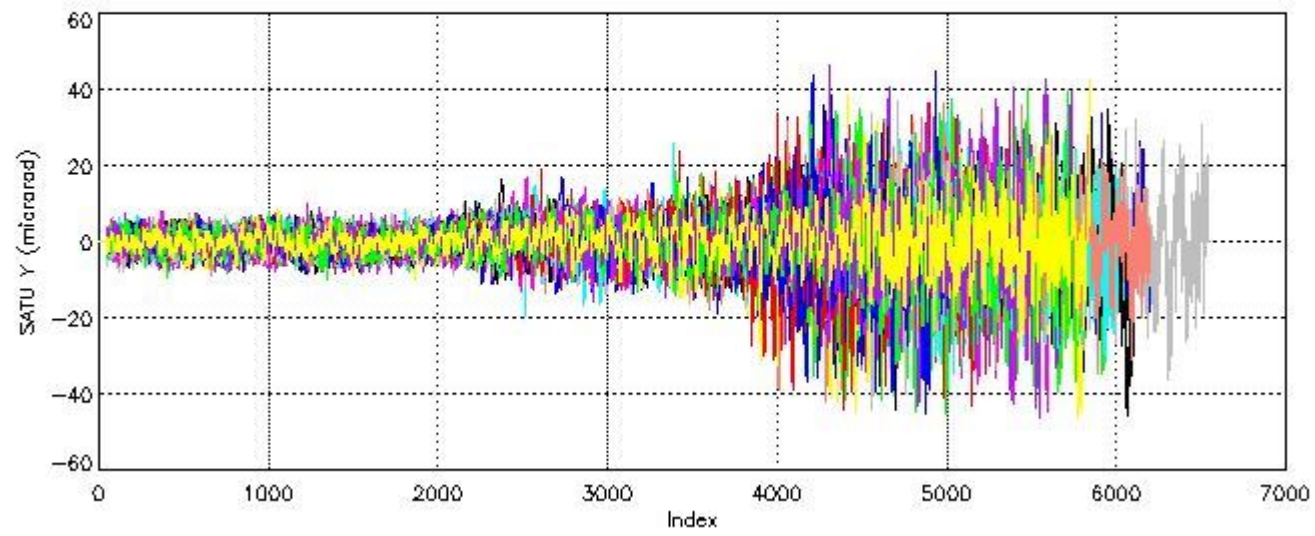
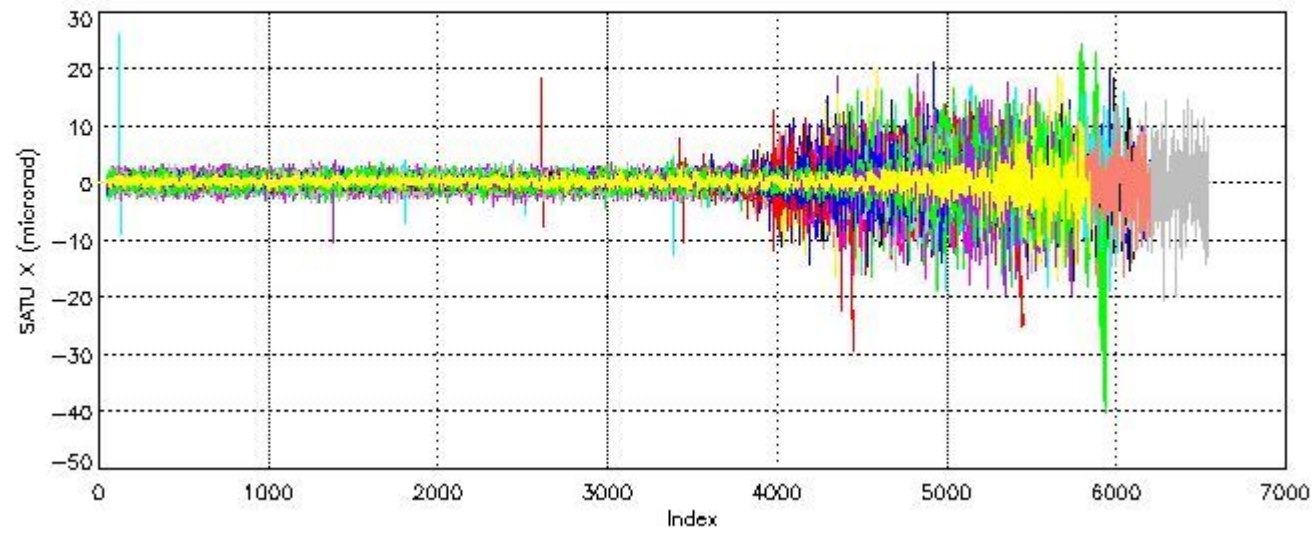
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.23635	-0.14393	0.19820	-0.18799
St. deviation:	0.65516	2.2024	0.78340	2.3314
Maximum:	26.300	8.2000	6.6000	10.900
Minimum:	-9.0000	-9.4000	-6.2000	-13.100

Number of data:	40300.	40300.	73200.	73200.
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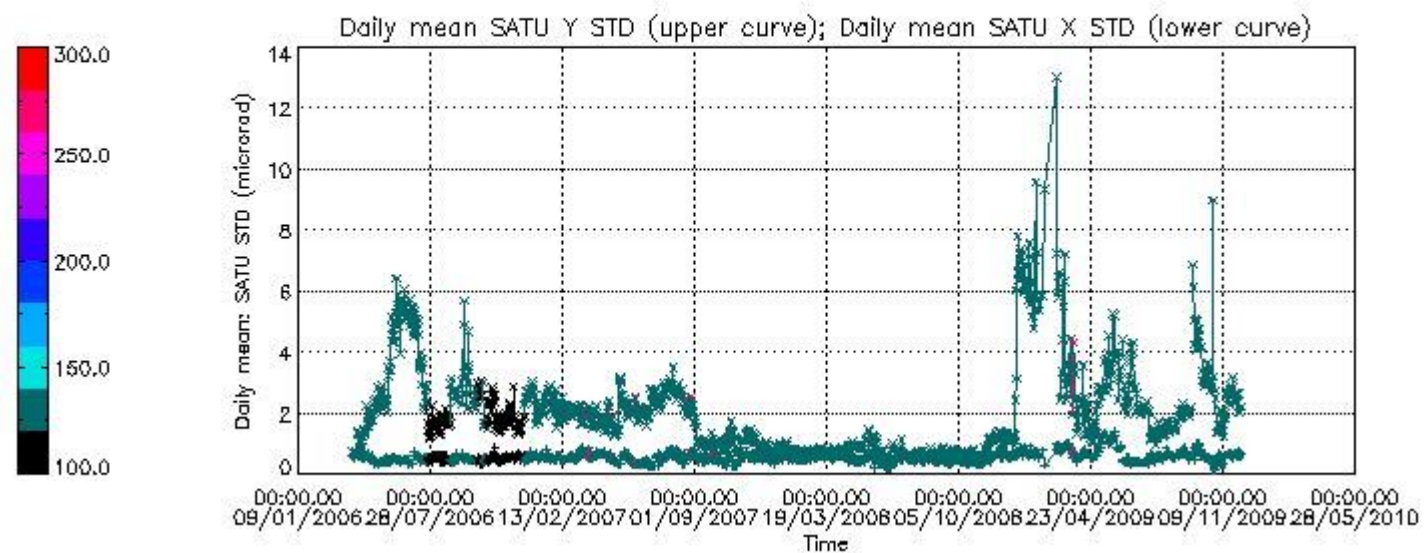
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

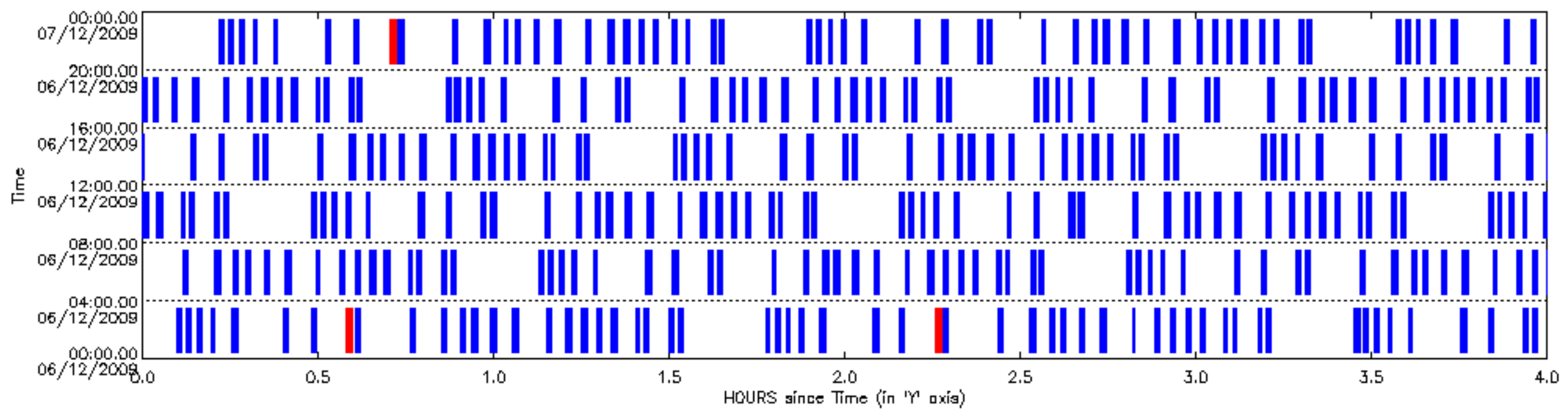
Lower curve: STD of SATU X axis



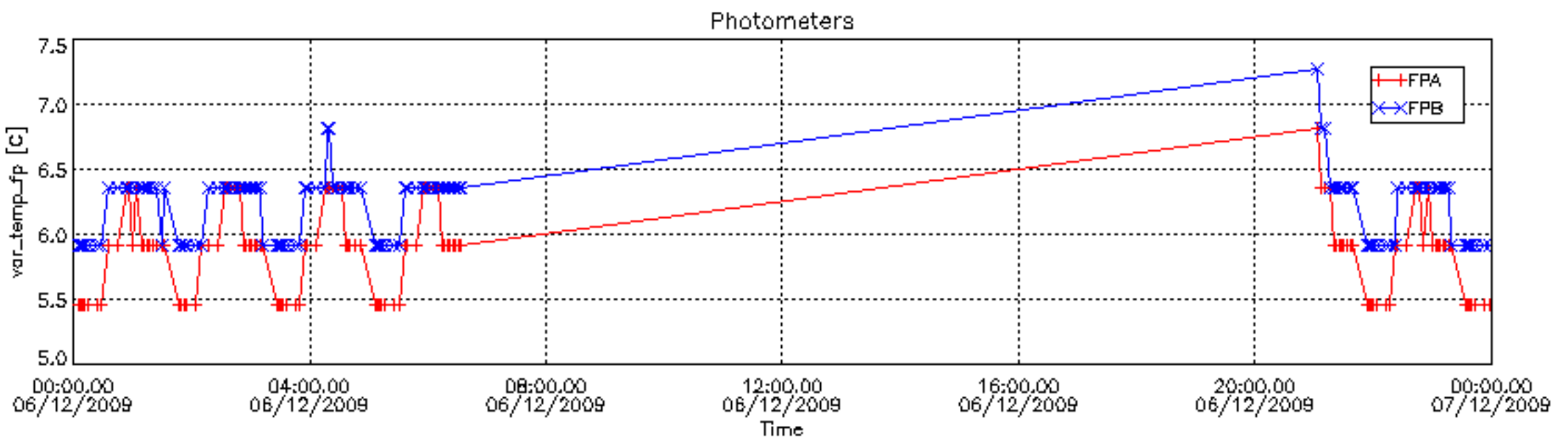
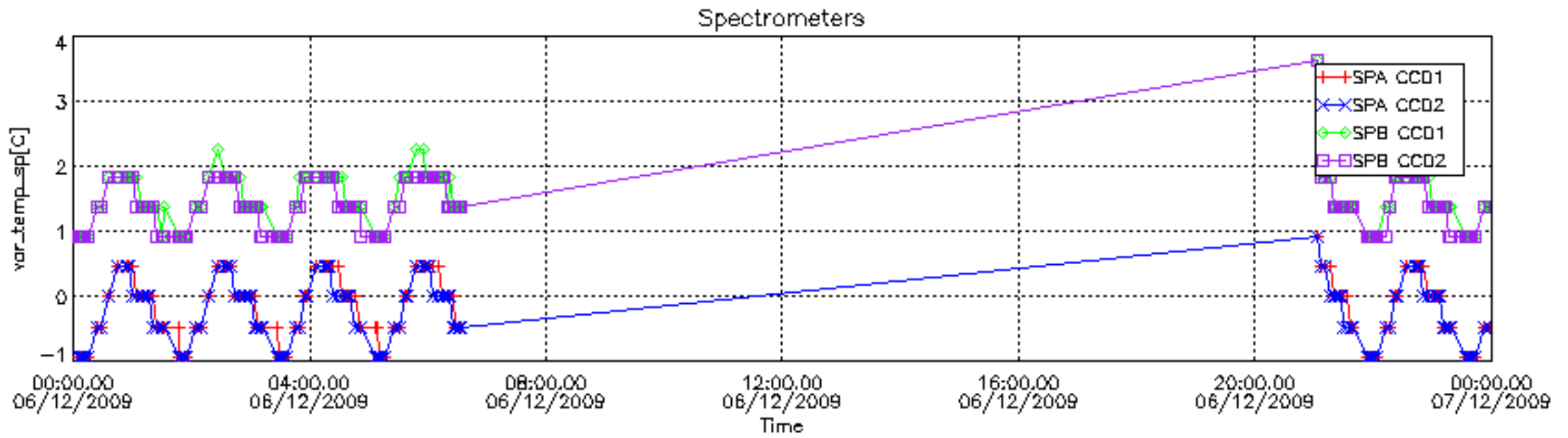
### 8. Auxiliary Data Files used for the production reported in section 2.4

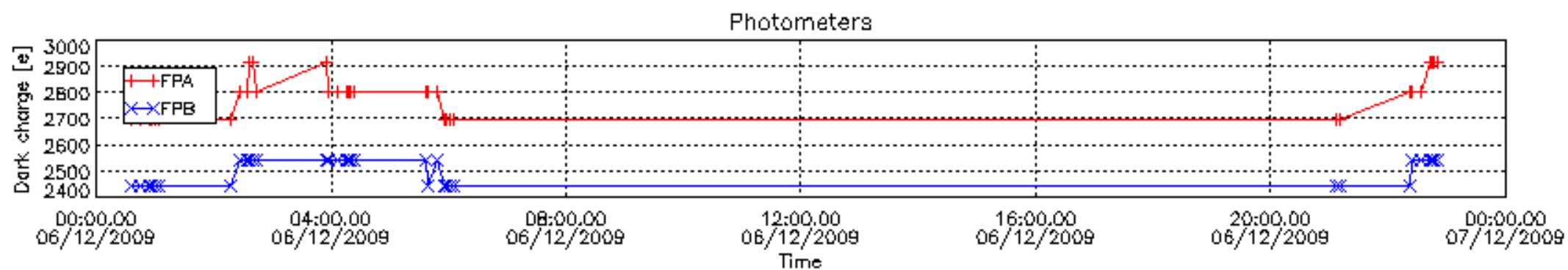
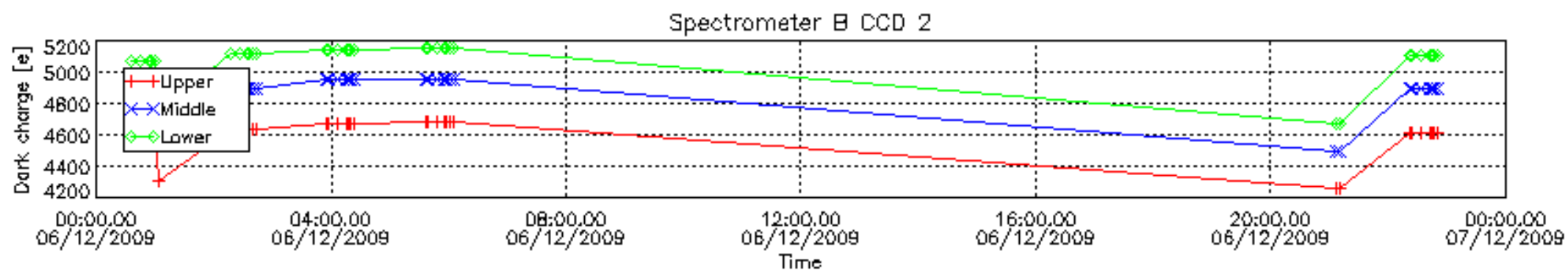
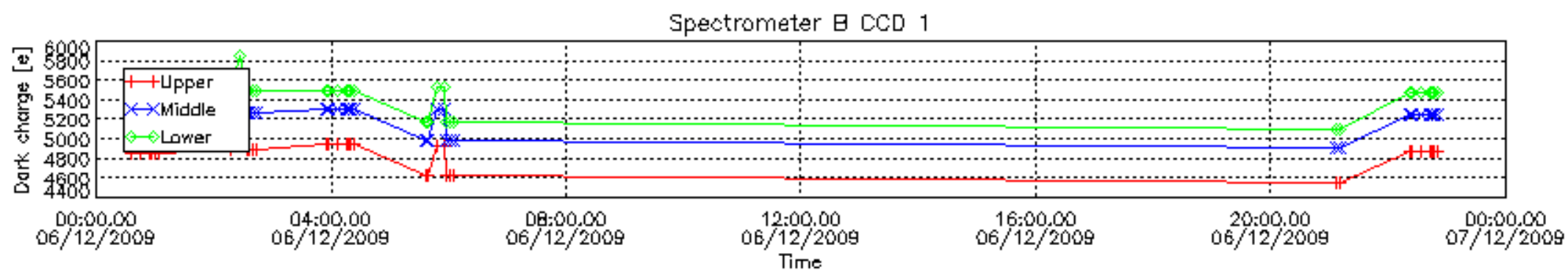
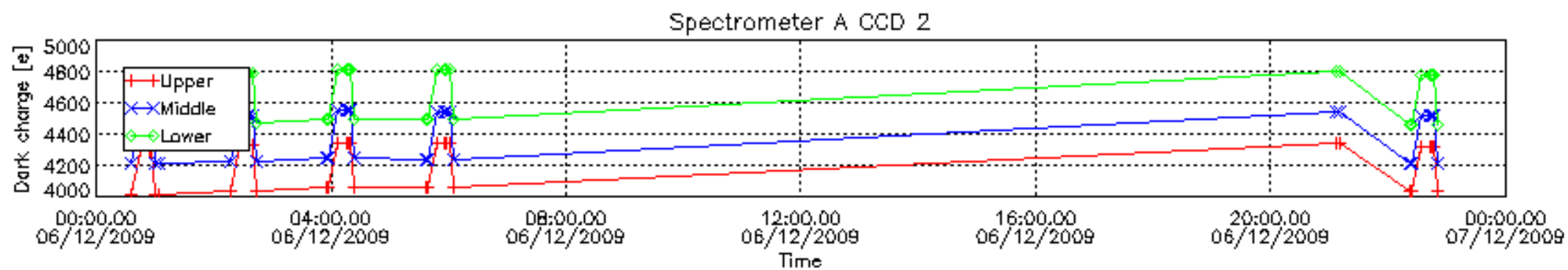
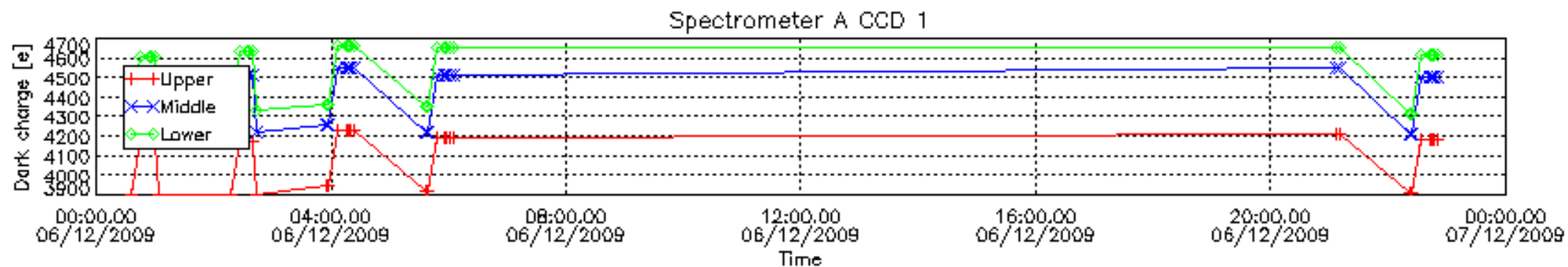
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

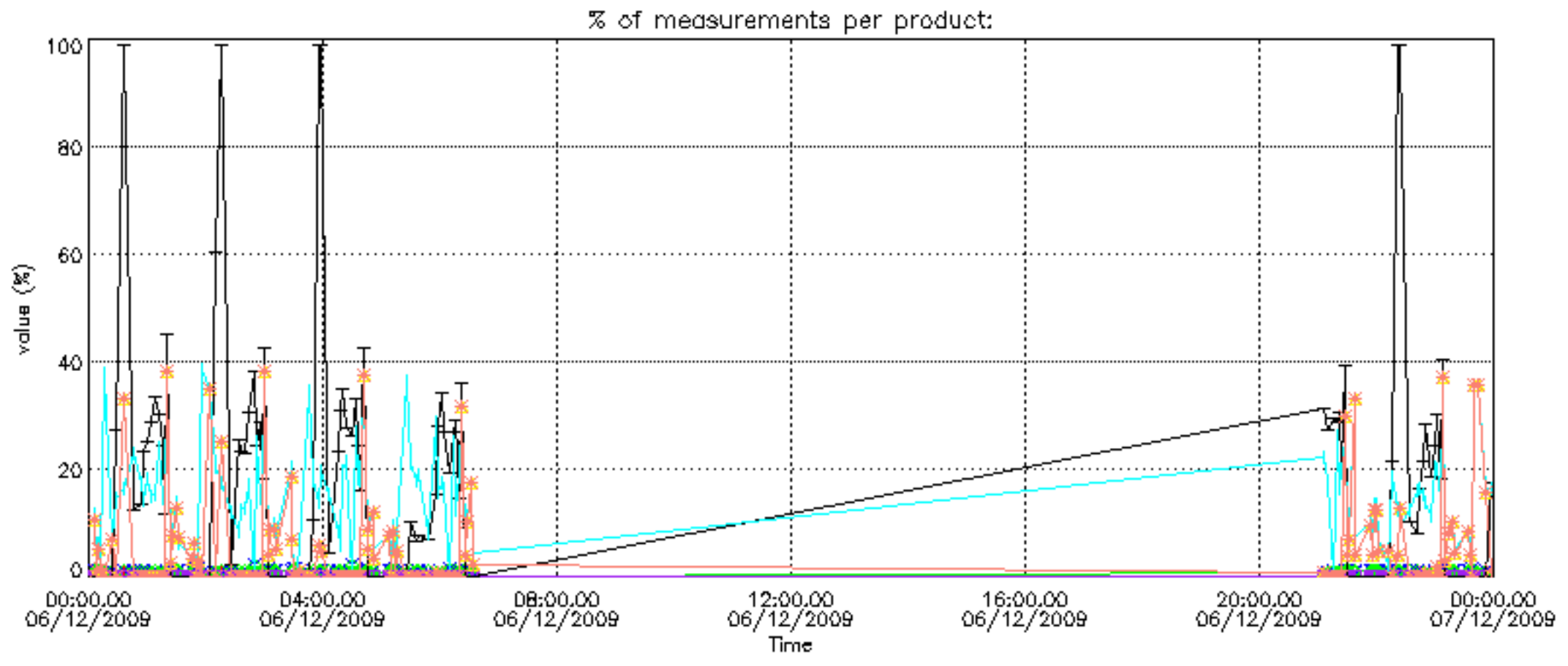
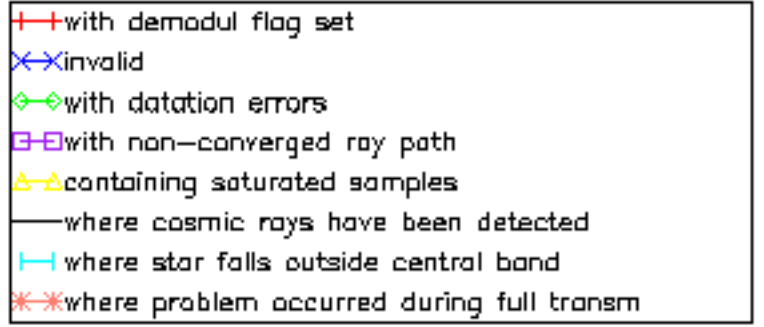
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	06-DEC-2009 00:05:50
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091130_103004_20091128_000000_20500101_000000	1	06-DEC-2009 00:05:50
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	06-DEC-2009 00:05:50
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	06-DEC-2009 00:05:50
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	06-DEC-2009 00:05:50
ECMWF_FILE	AUX_ECF_AXNECM20091205_064111_20091205_210000_20091206_090000	1	06-DEC-2009 00:05:50
ECMWF_FILE	AUX_ECF_AXNECM20091205_184110_20091206_030000_20091206_150000	46	06-DEC-2009 03:28:35
ECMWF_FILE	AUX_ECA_AXNECM20091206_062110_20091205_210000_20091206_090000	68	06-DEC-2009 05:07:37
ECMWF_FILE	AUX_ECF_AXNECM20091206_064110_20091206_210000_20091207_090000	91	06-DEC-2009 21:03:36
OPTIONAL_ECMWF_FILE	MISSING	1	06-DEC-2009 00:05:50
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091205_224536_000057382084_00473_40607_9302.N1	1	06-DEC-2009 00:05:50
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20091206_010110_20091205_194124_20091215_210736	8	06-DEC-2009 00:36:14
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091206_020730_000044632084_00475_40609_9304.N1	29	06-DEC-2009 02:09:18
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091206_032711_000054192084_00476_40610_9305.N1	46	06-DEC-2009 03:28:35
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091206_050250_000057382084_00477_40611_9306.N1	68	06-DEC-2009 05:07:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091206_205912_000041442084_00487_40621_9307.N1	91	06-DEC-2009 21:03:36
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091206_221335_000060572084_00487_40621_9308.N1	110	06-DEC-2009 22:22:38





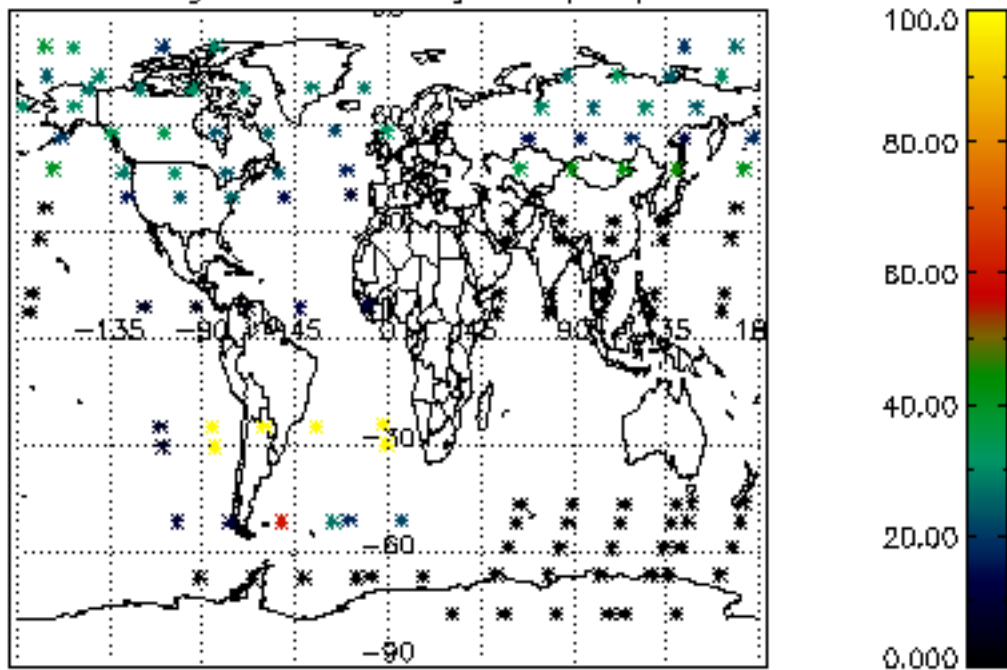




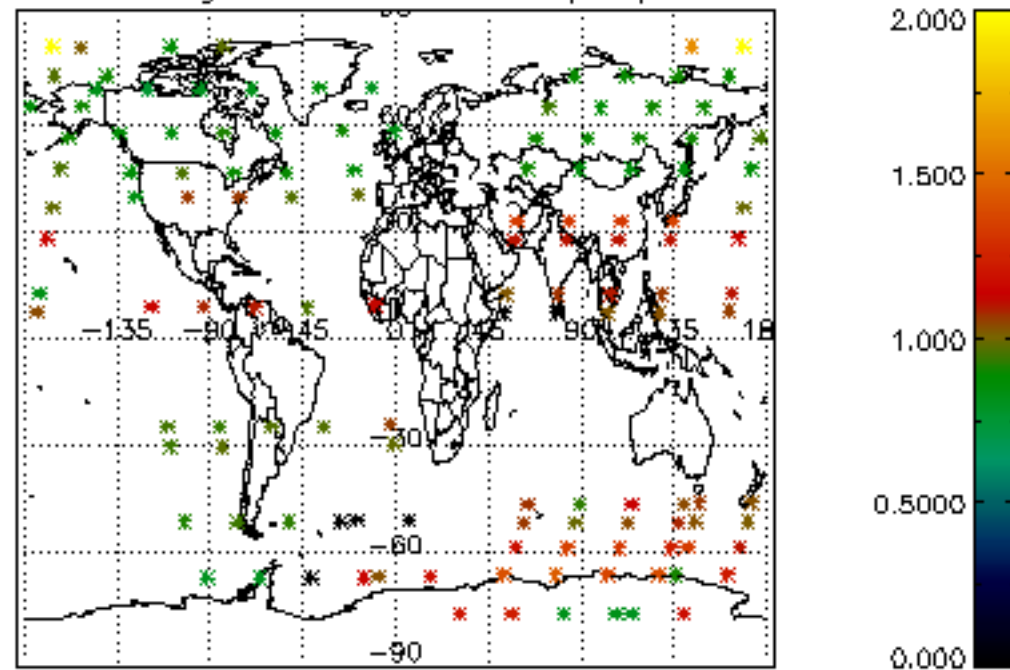




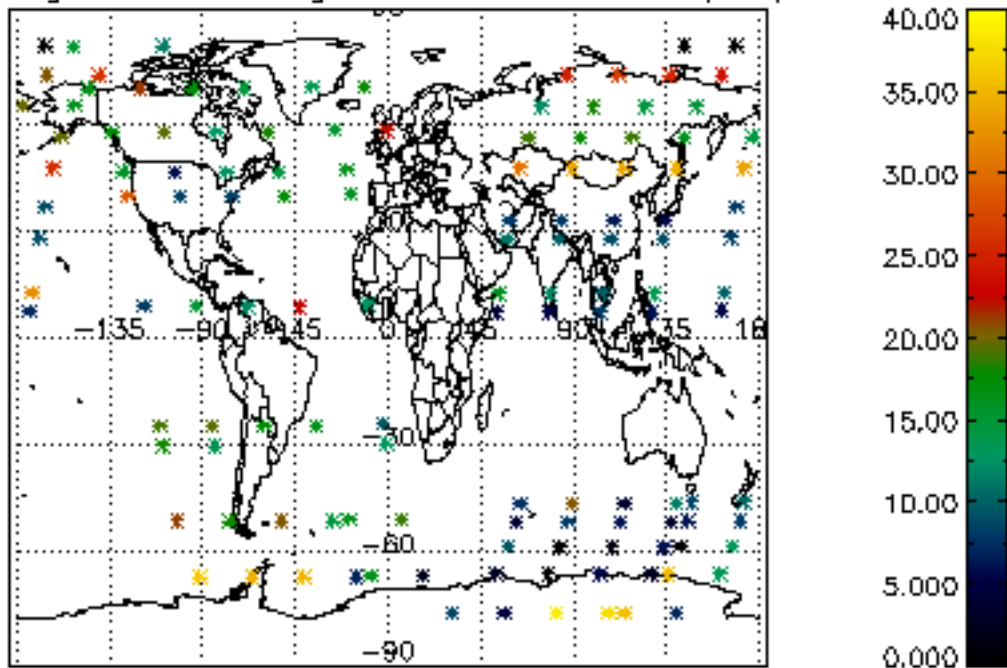
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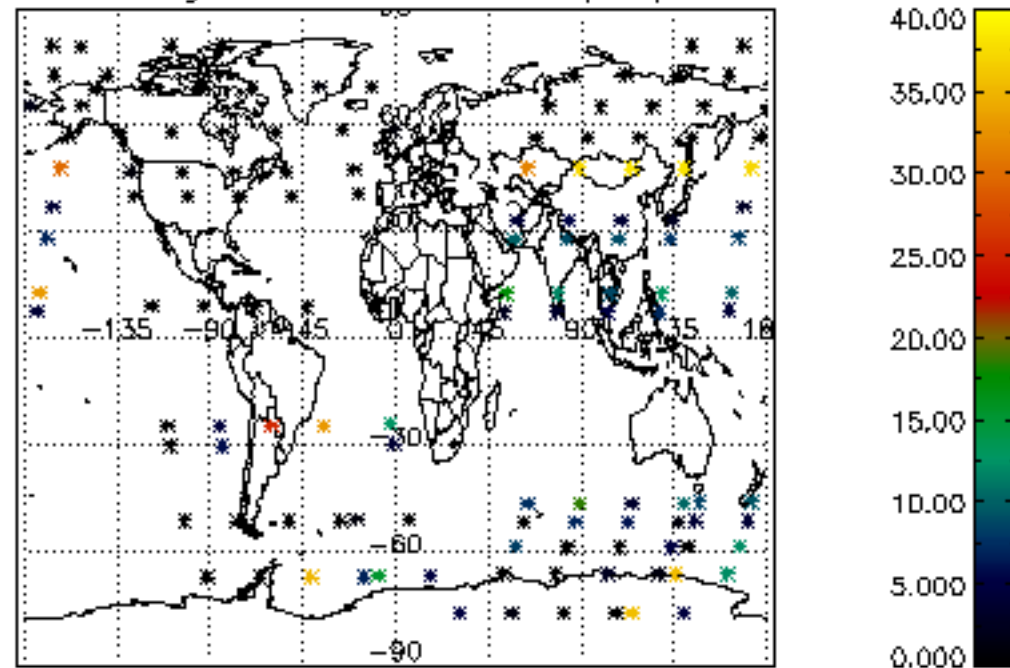
Percentage of datation errors per profile



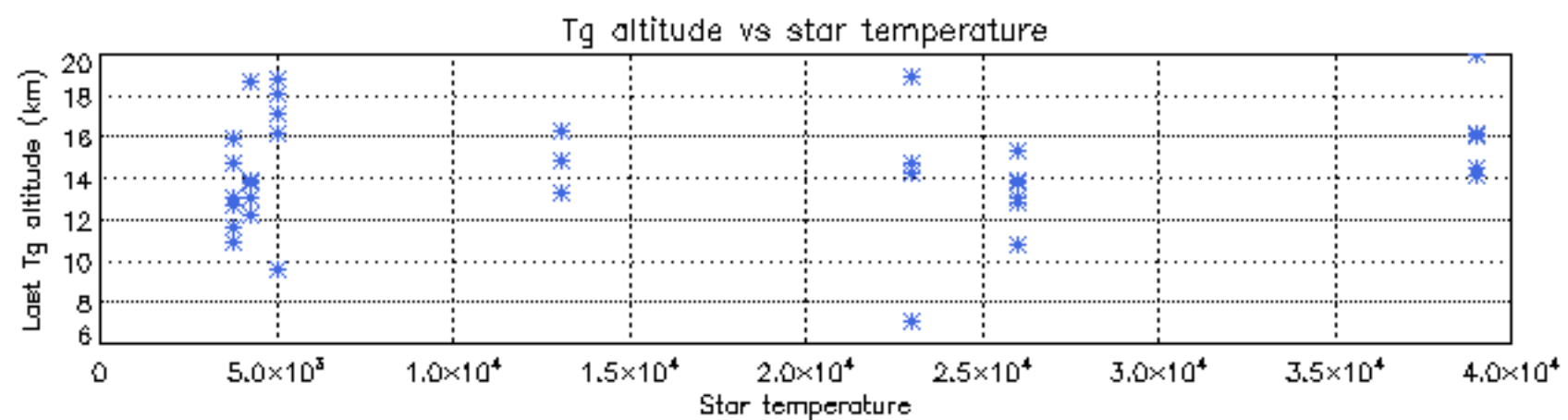
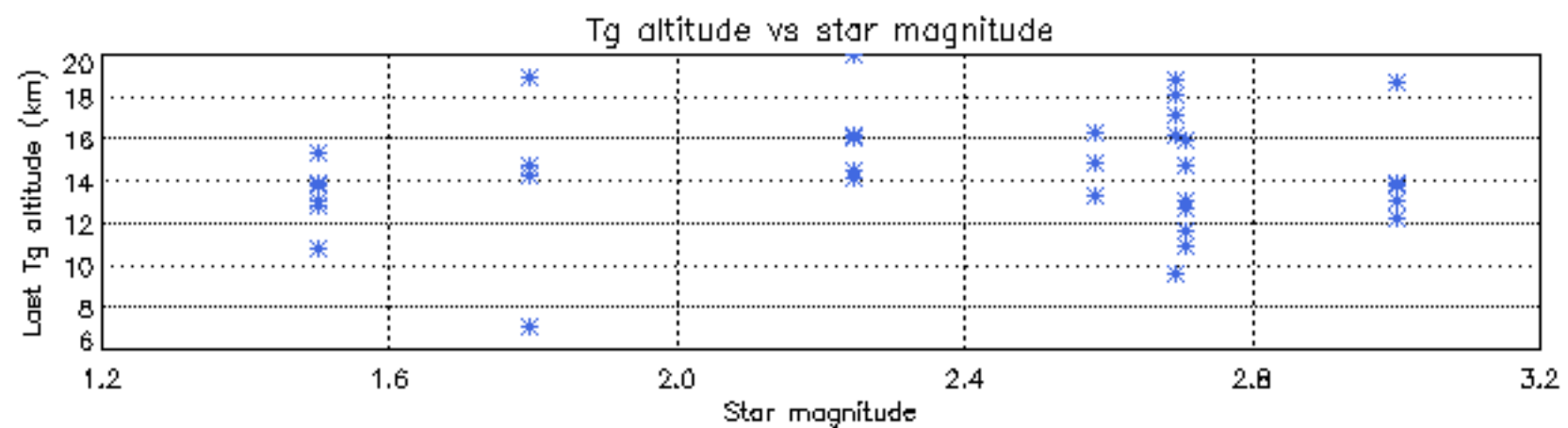
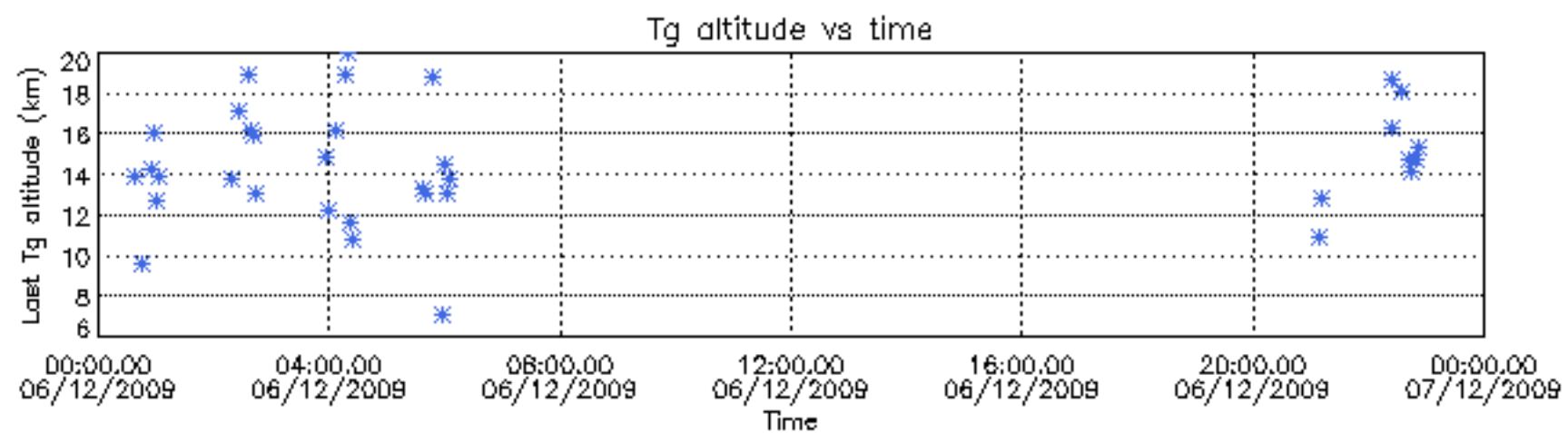
Percentage of star falling outside central band per profile



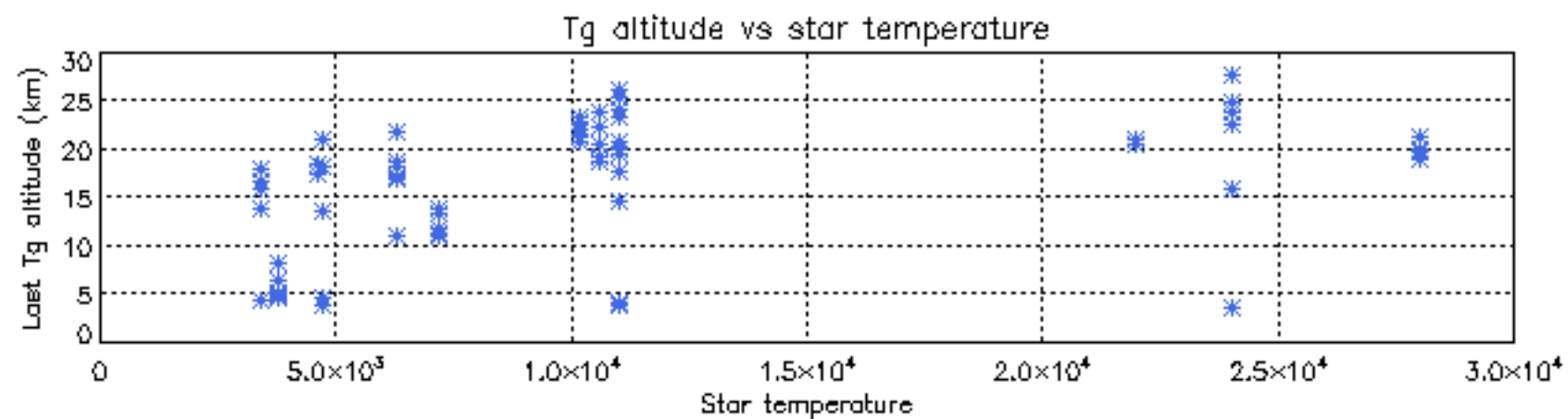
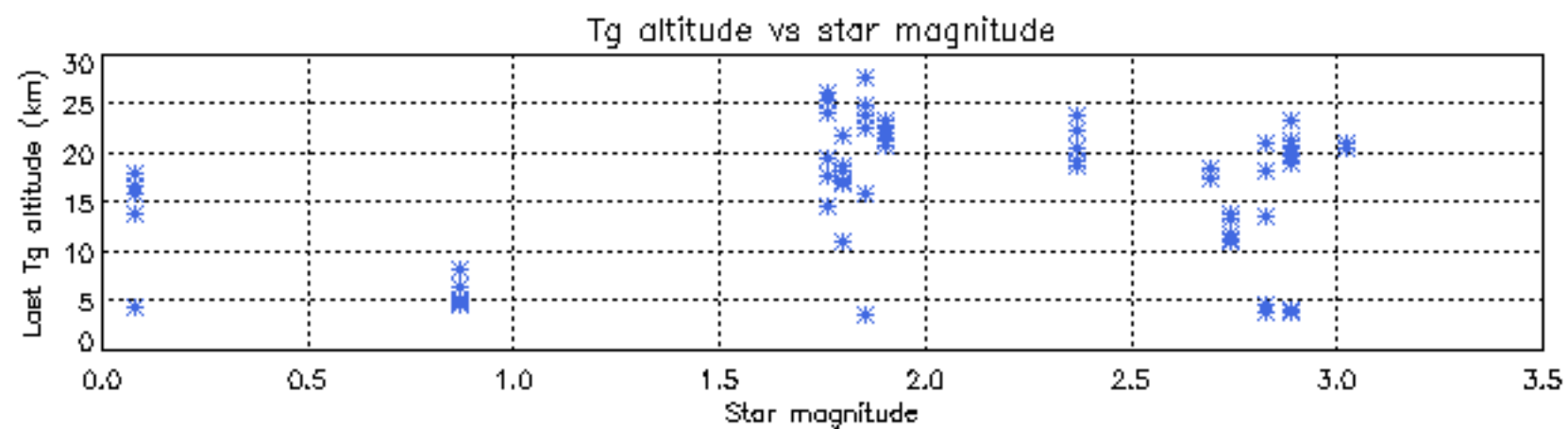
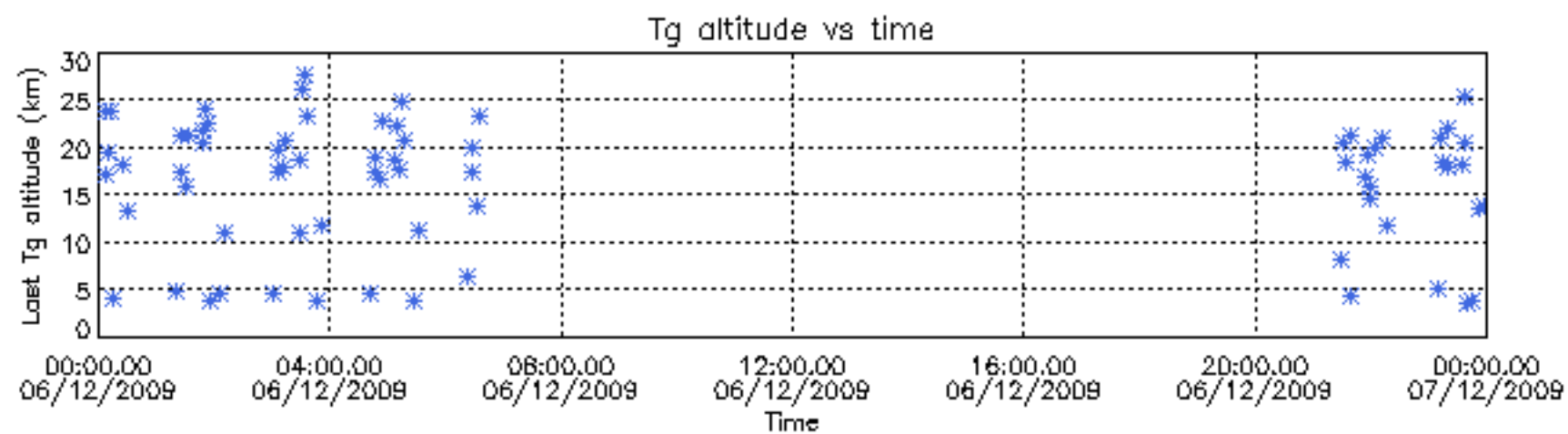
Percentage of saturation errors per profile



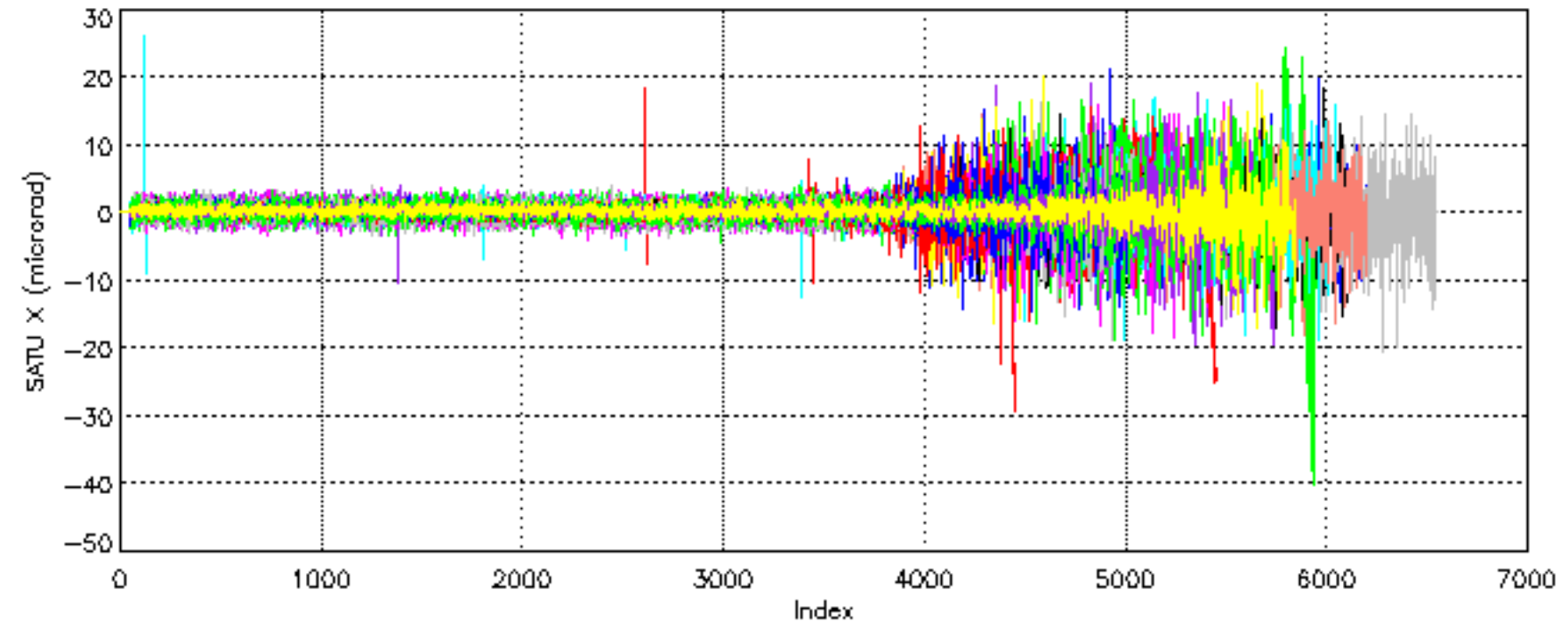
Tangent altitude at which the star is lost

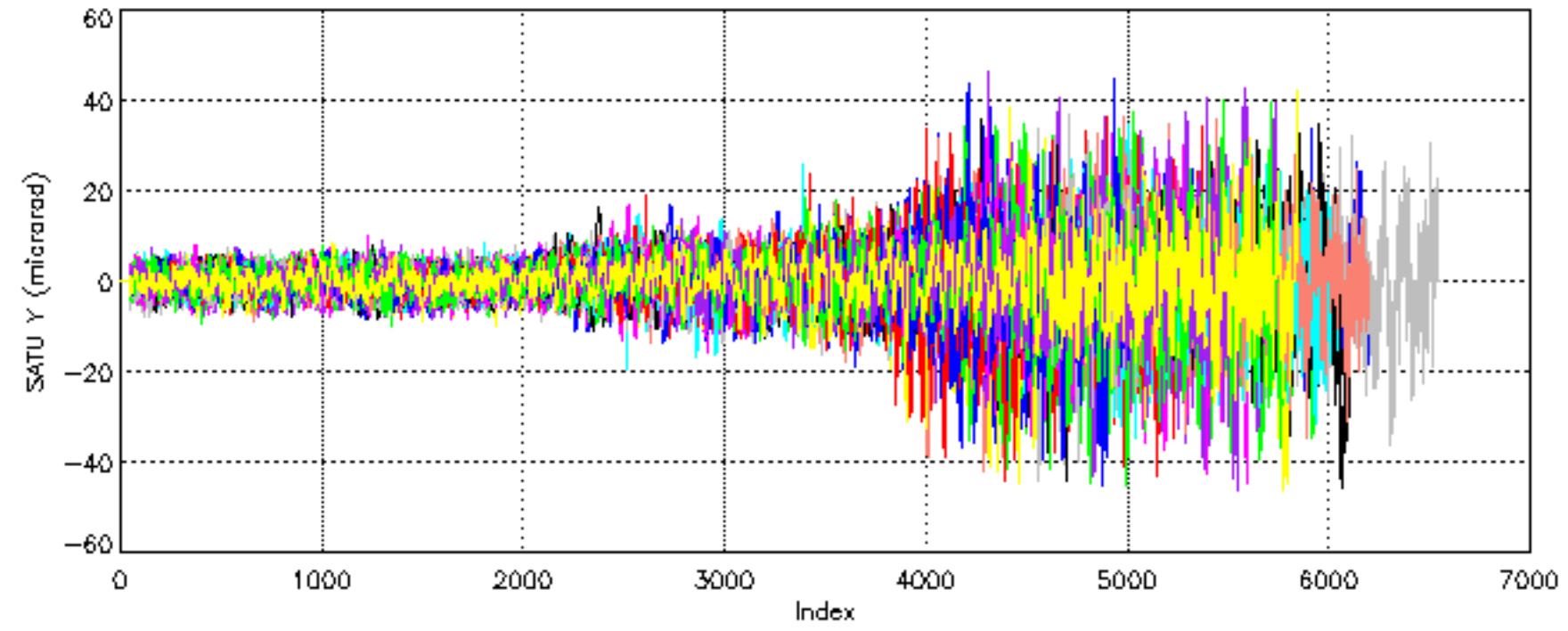


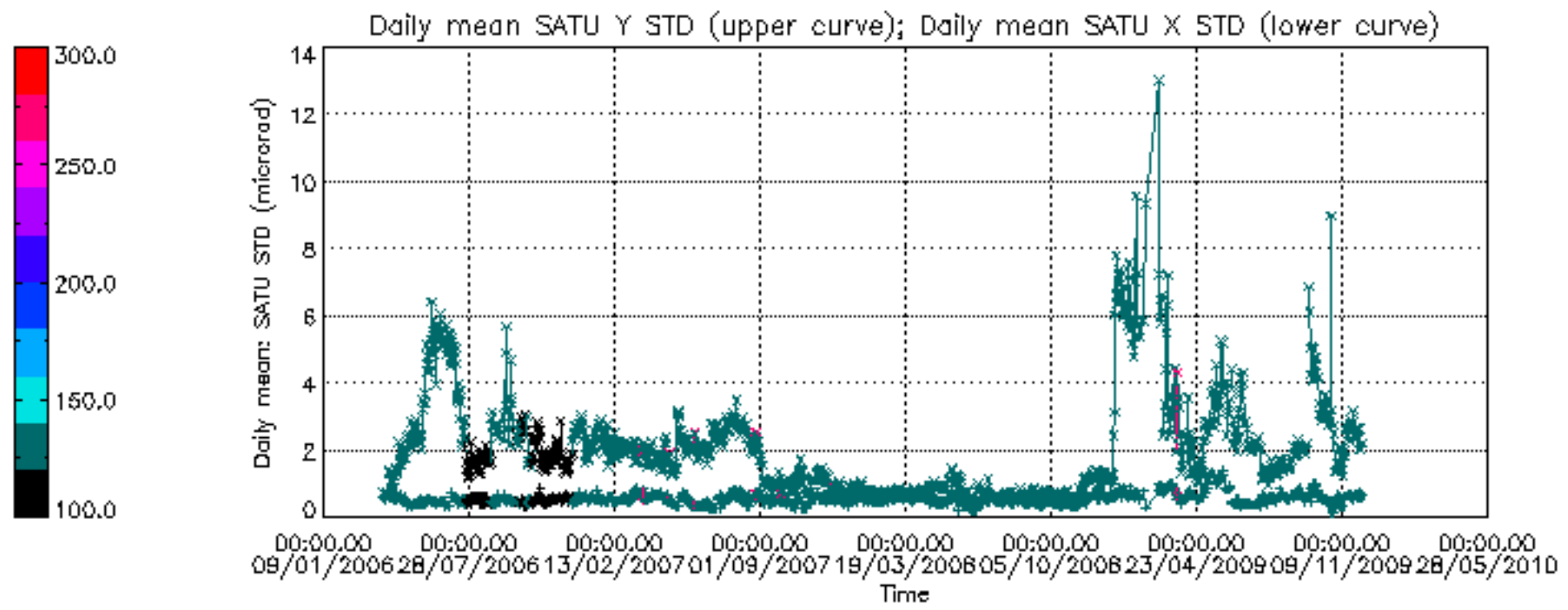
Tangent altitude at which the star is lost











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 9; 2922.9; 03-DEC-2009 16:31:33; Bright; 50.0; 42; 34Bet Aur ; 1.90; 10200;occ; 100; 0;40575  
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 12; 4011.3; 03-DEC-2009 16:49:41; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;40575  
 13; 4177.2; 03-DEC-2009 16:52:27; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;40575  
 14; 4350.3; 03-DEC-2009 16:55:20; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;40575  
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 22; 6786.4; 03-DEC-2009 17:35:56; Dark ; 55.0; 70; Zet Pup ; 2.25; 39000;occ; 110; 0;40575  
 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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 7; 2077.9; 03-DEC-2009 17:58:04; Dark ; 60.0; 27; 24Gam Ori ; 1.64; 26000;occ; 120; 0;40576  
 8; 2220.1; 03-DEC-2009 18:00:26; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;40576  
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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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 16; 4177.1; 03-DEC-2009 18:33:03; Bright; 58.0; 174; 52Psi UMa ; 3.00; 4400;occ; 116; 0;40576  
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 19; 5144.5; 03-DEC-2009 18:49:10; Bright; 47.5; 121; 29Gam Vir ; 2.74; 7200;occ; 95; 0;40576  
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 21; 5589.5; 03-DEC-2009 18:56:35; Dark ; 48.0; 171; 2Eps Crv ; 3.00; 4250;occ; 96; 0;40576  
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 23; 6476.3; 03-DEC-2009 19:11:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40576  
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 4; 1510.8; 03-DEC-2009 19:29:13; Dark ; 50.0; 47; 2Bet CMa ; 1.98; 28000;occ; 100; 0;40577  
 5; 1749.8; 03-DEC-2009 19:33:12; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;40577  
 6; 1919.7; 03-DEC-2009 19:36:02; Dark ; 60.5; 30; 46Eps Ori ; 1.69; 30000;occ; 121; 0;40577  
 7; 2077.4; 03-DEC-2009 19:38:39; Dark ; 58.5; 27; 24Gam Ori ; 1.64; 26000;occ; 117; 0;40577  
 8; 2219.7; 03-DEC-2009 19:41:02; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;40577  
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 12; 2921.1; 03-DEC-2009 19:52:43; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;40577  
 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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 17; 4350.4; 03-DEC-2009 20:16:32; Bright; 60.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 120; 0;40577  
 18; 4953.1; 03-DEC-2009 20:26:35; Bright; 63.5; 62; 94Bet Leo ; 2.14; 9700;occ; 127; 0;40577  
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 3; 642.3; 04-DEC-2009 00:16:32; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40580  
 4; 828.7; 04-DEC-2009 00:19:38; Dark ; 57.0; 2; Alp Car ; -0.74; 7000;occ; 114; 0;40580  
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 13; 2462.2; 04-DEC-2009 00:46:52; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;40580  
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 17; 3805.5; 04-DEC-2009 01:09:15; Bright; 50.0; 36; 50Alp UMa ; 1.80; 6300;occ; 100; 0;40580  
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 21; 4877.2; 04-DEC-2009 01:27:07; Bright; 61.0; 138; 47Eps Vir ; 2.83; 4700;occ; 122; 0;40580  
 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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 23; 7249.2; 08-DEC-2009 15:05:34; Dark ; 58.0; 23; 21Eps CMA ; 1.50; 26000;occ; 116; 0;40645

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 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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 19; 6213.7; 08-DEC-2009 16:28:54; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40646  
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 6; 2203.3; 08-DEC-2009 17:02:39; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40647  
 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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 13; 4353.4; 08-DEC-2009 17:38:30; Bright; 41.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 83; 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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 3; 1522.4; 08-DEC-2009 18:31:55; Dark ; 58.5; 47; 2Bet CMA ; 1.98; 28000;occ; 117; 0;40648  
 4; 1748.1; 08-DEC-2009 18:35:40; Dark ; 54.5; 7; 19Bet Ori ; 0.10; 14000;occ; 109; 0;40648  
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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  
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 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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 7; 700.1; 08-DEC-2009 21:39:24; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40650  
 8; 820.1; 08-DEC-2009 21:41:24; Dark ; 54.0; 70; Zet Pup ; 2.25; 39000;occ; 108; 0;40650  
 9; 1005.0; 08-DEC-2009 21:44:29; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40650  
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9; 1216.4; 08-DEC-2009 23:28:36; Dark ; 59.0; 23; 21Eps CMa ; 1.50; 26000;occ; 118; 0;40651
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2; 1899.4; 09-DEC-2009 08:02:59; Dark ; 52.5; 30; 46Eps Ori ; 1.69; 30000;occ; 105; 0;40656
3; 2115.6; 09-DEC-2009 08:06:35; Dark ; 27.0; 14; 58Alp Ori ; 0.87; 3000;occ; 54; 0;40656
4; 2201.6; 09-DEC-2009 08:08:01; Dark ; 54.0; 13; 87Alp Tau ; 0.87; 3800;occ; 108; 0;40656
5; 2373.2; 09-DEC-2009 08:10:53; Bright; 47.5; 176; 23Zet Tau ; 3.02; 22000;occ; 95; 0;40656
6; 2526.6; 09-DEC-2009 08:13:26; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;40656
7; 2780.7; 09-DEC-2009 08:17:40; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40656
8; 3774.9; 09-DEC-2009 08:34:15; Bright; 50.5; 36; 50Alp UMa ; 1.80; 6300;occ; 101; 0;40656
9; 3866.5; 09-DEC-2009 08:35:46; Bright; 50.0; 82; 48Bet UMa ; 2.37; 10600;occ; 100; 0;40656
10; 4000.6; 09-DEC-2009 08:38:00; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40656
11; 4140.7; 09-DEC-2009 08:40:20; Bright; 36.5; 39; 85Eta UMa ; 1.85; 24000;occ; 73; 0;40656
12; 4353.4; 09-DEC-2009 08:43:53; Bright; 63.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 126; 0;40656
13; 4703.0; 09-DEC-2009 08:49:43; Bright; 50.0; 111; 8Eta Boo ; 2.68; 6000;occ; 100; 0;40656
14; 4912.6; 09-DEC-2009 08:53:12; Bright; 65.0; 138; 47Eps Vir ; 2.83; 4700;occ; 130; 0;40656
15; 5202.8; 09-DEC-2009 08:58:02; Dark ; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;40656
16; 5473.0; 09-DEC-2009 09:02:33; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;40656
17; 5571.4; 09-DEC-2009 09:04:11; Dark ; 56.0; 100; 4Gam Crv ; 2.58; 13100;occ; 112; 0;40656

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 21; 6741.4; 09-DEC-2009 09:23:41; Dark ; 59.0; 34; Gam2Vel ; 1.79; 23000;occ; 118; 0;40656  
 22; 6862.0; 09-DEC-2009 09:25:42; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40656  
 23; 7045.6; 09-DEC-2009 09:28:45; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;40656  
 24; 7193.6; 09-DEC-2009 09:31:13; Dark ; 36.0; 88; 31Eta CMa ; 2.45; 20000;occ; 72; 0;40656  
 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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 5; 2372.6; 09-DEC-2009 09:51:28; Bright; 48.0; 176; 23Zet Tau ; 3.02; 22000;occ; 96; 0;40657  
 6; 2526.1; 09-DEC-2009 09:54:02; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;40657  
 7; 2780.2; 09-DEC-2009 09:58:16; Bright; 48.0; 6; 13Alp Aur ; 0.08; 3400;occ; 96; 0;40657  
 8; 3774.4; 09-DEC-2009 10:14:50; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40657  
 9; 3865.9; 09-DEC-2009 10:16:21; Bright; 45.5; 82; 48Bet UMa ; 2.37; 10600;occ; 91; 0;40657  
 10; 4000.3; 09-DEC-2009 10:18:36; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40657  
 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  
 14; 4913.2; 09-DEC-2009 10:33:49; Bright; 65.0; 138; 47Eps Vir ; 2.83; 4700;occ; 130; 0;40657  
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 17; 5572.3; 09-DEC-2009 10:44:48; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40657  
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 19; 6222.9; 09-DEC-2009 10:55:38; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40657  
 20; 6542.1; 09-DEC-2009 11:00:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40657  
 21; 6742.1; 09-DEC-2009 11:04:18; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40657  
 22; 6862.8; 09-DEC-2009 11:06:18; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40657  
 23; 7046.2; 09-DEC-2009 11:09:22; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40657  
 24; 7194.0; 09-DEC-2009 11:11:50; Dark ; 39.0; 88; 31Eta CMa ; 2.45; 20000;occ; 78; 0;40657  
 25; 7255.6; 09-DEC-2009 11:12:51; Dark ; 59.0; 23; 21Eps CMa ; 1.50; 26000;occ; 118; 0;40657  
 26; 7559.6; 09-DEC-2009 11:17:55; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;40657

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 3; 2114.7; 09-DEC-2009 11:27:46; Dark ; 34.0; 14; 58Alp Ori ; 0.87; 3000;occ; 68; 0;40658  
 4; 2201.2; 09-DEC-2009 11:29:13; Dark ; 50.0; 13; 87Alp Tau ; 0.87; 3800;occ; 100; 0;40658  
 5; 2371.8; 09-DEC-2009 11:32:03; Bright; 49.5; 176; 23Zet Tau ; 3.02; 22000;occ; 99; 0;40658  
 6; 2525.7; 09-DEC-2009 11:34:37; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;40658  
 7; 2779.6; 09-DEC-2009 11:38:51; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;40658  
 8; 3773.9; 09-DEC-2009 11:55:25; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40658  
 9; 3865.4; 09-DEC-2009 11:56:57; Bright; 53.0; 82; 48Bet UMa ; 2.37; 10600;occ; 106; 0;40658  
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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  
 12; 4353.5; 09-DEC-2009 12:05:05; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;40658  
 13; 4703.4; 09-DEC-2009 12:10:55; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40658  
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 15; 5204.5; 09-DEC-2009 12:19:16; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;40658  
 16; 5474.0; 09-DEC-2009 12:23:45; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40658  
 17; 5573.6; 09-DEC-2009 12:25:25; Dark ; 51.5; 100; 4Gam Crv ; 2.58; 13100;occ; 103; 0;40658  
 18; 5670.2; 09-DEC-2009 12:27:02; Dark ; 49.5; 171; 2Eps Crv ; 3.00; 4250;occ; 99; 0;40658  
 19; 6223.8; 09-DEC-2009 12:36:15; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;40658  
 20; 6542.9; 09-DEC-2009 12:41:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40658  
 21; 6743.0; 09-DEC-2009 12:44:54; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40658  
 22; 6863.9; 09-DEC-2009 12:46:55; Dark ; 52.5; 70; Zet Pup ; 2.25; 39000;occ; 105; 0;40658  
 23; 7046.8; 09-DEC-2009 12:49:58; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;40658  
 24; 7194.6; 09-DEC-2009 12:52:26; Dark ; 39.0; 88; 31Eta CMa ; 2.45; 20000;occ; 78; 0;40658  
 25; 7256.1; 09-DEC-2009 12:53:27; Dark ; 60.0; 23; 21Eps CMa ; 1.50; 26000;occ; 120; 0;40658  
 26; 7559.7; 09-DEC-2009 12:58:31; Dark ; 56.0; 47; 2Bet CMa ; 1.98; 28000;occ; 112; 0;40658

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 3; 2114.1; 09-DEC-2009 13:08:21; Dark ; 34.0; 14; 58Alp Ori ; 0.87; 3000;occ; 68; 0;40659  
 4; 2201.0; 09-DEC-2009 13:09:48; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40659

5; 2371.3; 09-DEC-2009 13:12:39; Bright; 48.5; 176; 23Zet Tau ; 3.02; 22000;occ; 97; 0;40659  
6; 2525.3; 09-DEC-2009 13:15:13; Bright; 43.5; 114; 3Iot Aur ; 2.69; 4600;occ; 87; 0;40659  
7; 2779.2; 09-DEC-2009 13:19:26; Bright; 47.0; 6; 13Alp Aur ; 0.08; 3400;occ; 94; 0;40659  
8; 3773.6; 09-DEC-2009 13:36:01; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40659  
9; 3864.9; 09-DEC-2009 13:37:32; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;40659  
10; 3999.9; 09-DEC-2009 13:39:47; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;40659  
11; 4140.5; 09-DEC-2009 13:42:08; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40659  
12; 4353.8; 09-DEC-2009 13:45:41; Bright; 44.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 89; 0;40659  
13; 4703.7; 09-DEC-2009 13:51:31; Bright; 56.0; 111; 8Eta Boo ; 2.68; 6000;occ; 112; 0;40659  
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15; 5205.3; 09-DEC-2009 13:59:53; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;40659  
16; 5474.7; 09-DEC-2009 14:04:22; Dark ; 44.0; 169; 46Gam Hya ; 2.99; 4700;occ; 88; 0;40659  
17; 5574.7; 09-DEC-2009 14:06:02; Dark ; 52.0; 100; 4Gam Crv ; 2.58; 13100;occ; 104; 0;40659  
18; 5671.2; 09-DEC-2009 14:07:38; Dark ; 54.5; 171; 2Eps Crv ; 3.00; 4250;occ; 109; 0;40659  
19; 6224.8; 09-DEC-2009 14:16:52; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40659  
20; 6543.7; 09-DEC-2009 14:22:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40659  
21; 6743.8; 09-DEC-2009 14:25:31; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;40659  
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  
24; 7195.4; 09-DEC-2009 14:33:03; Dark ; 43.0; 88; 31Eta CMa ; 2.45; 20000;occ; 86; 0;40659  
25; 7299.3; 09-DEC-2009 14:34:47; Dark ; 34.5; 37; 25Del CMa ; 1.83; 5900;occ; 69; 0;40659

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3; 1898.5; 09-DEC-2009 14:45:22; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;40660  
4; 2113.6; 09-DEC-2009 14:48:57; Dark ; 41.0; 14; 58Alp Ori ; 0.87; 3000;occ; 82; 0;40660  
5; 2201.0; 09-DEC-2009 14:50:24; Dark ; 57.0; 13; 87Alp Tau ; 0.87; 3800;occ; 114; 0;40660  
6; 2370.8; 09-DEC-2009 14:53:14; Bright; 49.0; 176; 23Zet Tau ; 3.02; 22000;occ; 98; 0;40660  
7; 2525.0; 09-DEC-2009 14:55:48; Bright; 44.0; 114; 3Iot Aur ; 2.69; 4600;occ; 88; 0;40660  
8; 2778.8; 09-DEC-2009 15:00:02; Bright; 45.0; 6; 13Alp Aur ; 0.08; 3400;occ; 90; 0;40660  
9; 3773.1; 09-DEC-2009 15:16:36; Bright; 51.0; 36; 50Alp UMa ; 1.80; 6300;occ; 102; 0;40660  
10; 3864.5; 09-DEC-2009 15:18:08; Bright; 49.0; 82; 48Bet UMa ; 2.37; 10600;occ; 98; 0;40660  
11; 3999.9; 09-DEC-2009 15:20:23; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;40660  
12; 4140.9; 09-DEC-2009 15:22:44; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40660  
13; 4353.5; 09-DEC-2009 15:26:17; Bright; 43.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 86; 0;40660  
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19; 5672.4; 09-DEC-2009 15:48:16; Dark ; 54.0; 171; 2Eps Crv ; 3.00; 4250;occ; 108; 0;40660  
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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  
23; 6865.8; 09-DEC-2009 16:08:09; Dark ; 52.0; 70; Zet Pup ; 2.25; 39000;occ; 104; 0;40660  
24; 7048.4; 09-DEC-2009 16:11:12; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40660  
25; 7196.1; 09-DEC-2009 16:13:39; Dark ; 43.0; 88; 31Eta CMa ; 2.45; 20000;occ; 86; 0;40660  
26; 7300.1; 09-DEC-2009 16:15:23; Dark ; 34.5; 37; 25Del CMa ; 1.83; 5900;occ; 69; 0;40660

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3; 1748.0; 09-DEC-2009 16:23:27; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;40661  
4; 1898.7; 09-DEC-2009 16:25:58; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;40661  
5; 2113.0; 09-DEC-2009 16:29:32; Dark ; 41.0; 14; 58Alp Ori ; 0.87; 3000;occ; 82; 0;40661  
6; 2200.8; 09-DEC-2009 16:31:00; Dark ; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;40661  
7; 2370.2; 09-DEC-2009 16:33:49; Bright; 48.0; 176; 23Zet Tau ; 3.02; 22000;occ; 96; 0;40661  
8; 2524.7; 09-DEC-2009 16:36:24; Bright; 43.5; 114; 3Iot Aur ; 2.69; 4600;occ; 87; 0;40661  
9; 2778.3; 09-DEC-2009 16:40:37; Bright; 59.5; 6; 13Alp Aur ; 0.08; 3400;occ; 119; 0;40661  
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12; 3999.7; 09-DEC-2009 17:00:59; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;40661  
13; 4141.0; 09-DEC-2009 17:03:20; Bright; 55.5; 39; 85Eta UMa ; 1.85; 24000;occ; 111; 0;40661  
14; 4353.7; 09-DEC-2009 17:06:53; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;40661  
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16; 4915.5; 09-DEC-2009 17:16:15; Bright; 66.0; 138; 47Eps Vir ; 2.83; 4700;occ; 132; 0;40661  
17; 5207.1; 09-DEC-2009 17:21:06; Dark ; 52.0; 121; 29Gam Vir ; 2.74; 7200;occ; 104; 0;40661  
18; 5476.0; 09-DEC-2009 17:25:35; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;40661  
19; 5577.1; 09-DEC-2009 17:27:16; Dark ; 52.0; 100; 4Gam Crv ; 2.58; 13100;occ; 104; 0;40661



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21; 6226.6; 09-DEC-2009 17:38:06; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40661
22; 6545.4; 09-DEC-2009 17:43:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40661
23; 6745.6; 09-DEC-2009 17:46:45; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40661
24; 6866.7; 09-DEC-2009 17:48:46; Dark ; 55.5; 70; Zet Pup ; 2.25; 39000;occ; 111; 0;40661
25; 7049.1; 09-DEC-2009 17:51:48; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;40661
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 2; 1264.5; 09-DEC-2009 17:56:00; Dark ; 39.0; 37; 25Del CMA ; 1.83; 5900;occ; 78; 0;40662
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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  
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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  
24; 6565.1; 11-DEC-2009 11:38:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40686  
25; 6764.9; 11-DEC-2009 11:42:03; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40686  
26; 6913.8; 11-DEC-2009 11:44:32; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;40686  
27; 7065.4; 11-DEC-2009 11:47:03; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;40686  
28; 7270.1; 11-DEC-2009 11:50:28; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;40686  
29; 7563.9; 11-DEC-2009 11:55:22; Dark ; 34.5; 47; 2Bet CMa ; 1.98; 28000;occ; 69; 0;40686

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3; 1893.6; 11-DEC-2009 12:01:27; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;40687  
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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  
17; 5492.2; 11-DEC-2009 13:01:26; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40687  
18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687  
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687  
20; 5938.2; 11-DEC-2009 13:08:52; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40687  
21; 6031.6; 11-DEC-2009 13:10:25; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40687  
22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687  
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687  
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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  
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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  
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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
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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
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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
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16; 5231.2; 11-DEC-2009 16:18:17; Dark ; 56.0; 121; 29Gam Vir ; 2.74; 7200;occ; 112; 0;40689
17; 5493.6; 11-DEC-2009 16:22:39; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40689
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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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11; 3759.4; 11-DEC-2009 17:34:21; Bright; 44.5; 36; 50Alp UMa ; 1.80; 6300;occ; 89; 0;40690
12; 3994.9; 11-DEC-2009 17:38:16; Bright; 51.0; 32; 77Eps UMa ; 1.76; 11000;occ; 102; 0;40690
13; 4140.1; 11-DEC-2009 17:40:41; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40690
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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 22; 6033.8; 11-DEC-2009 18:12:15; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40690  
 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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 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  
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 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705  
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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 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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13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707  
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22; 2694.5; 12-DEC-2009 21:46:47; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;40707  
23; 2822.1; 12-DEC-2009 21:48:55; Bright; 66.0; 42; 34Bet Aur ; 1.90; 10200;occ; 132; 0;40707  
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25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707  
26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707  
27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707  
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29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707  
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13; 1244.3; 12-DEC-2009 23:03:13; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40708  
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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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22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708  
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27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708  
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22; 6586.1; 13-DEC-2009 08:55:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40713
23; 6785.3; 13-DEC-2009 08:58:33; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40713
24; 6925.3; 13-DEC-2009 09:00:53; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;40713
25; 7082.1; 13-DEC-2009 09:03:30; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;40713
26; 7283.0; 13-DEC-2009 09:06:51; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40713
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6; 2464.0; 13-DEC-2009 09:27:08; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40714
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13; 4334.6; 13-DEC-2009 09:58:19; Bright; 34.5; 180; 27Gam Boo ; 3.04; 8000;occ; 69; 0;40714
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12; 4139.3; 13-DEC-2009 11:35:39; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40715
13; 4334.7; 13-DEC-2009 11:38:55; Bright; 54.0; 180; 27Gam Boo ; 3.04; 8000;occ; 108; 0;40715
14; 4719.4; 13-DEC-2009 11:45:19; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40715
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17; 5510.7; 13-DEC-2009 11:58:31; Dark ; 42.5; 169; 46Gam Hya ; 2.99; 4700;occ; 85; 0;40715
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 25; 6926.1; 13-DEC-2009 12:22:06; Dark ; 54.0; 2; Alp Car ; -0.74; 7000;occ; 108; 0;40715  
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 28; 7568.1; 13-DEC-2009 12:32:48; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;40715

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 12; 4139.5; 13-DEC-2009 13:16:15; Bright; 52.5; 39; 85Eta UMa ; 1.85; 24000;occ; 105; 0;40716  
 13; 4334.7; 13-DEC-2009 13:19:31; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40716  
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 16; 5302.0; 13-DEC-2009 13:35:38; Dark ; 53.0; 15; 67Alp Vir ; 0.98; 28000;occ; 106; 0;40716  
 17; 5511.4; 13-DEC-2009 13:39:07; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40716  
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 27; 7083.9; 13-DEC-2009 14:05:20; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40716  
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9; 2791.4; 16-DEC-2009 11:18:57; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40758
10; 3704.7; 16-DEC-2009 11:34:10; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;40758
11; 3981.2; 16-DEC-2009 11:38:46; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;40758
12; 4137.2; 16-DEC-2009 11:41:23; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40758
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14; 4531.9; 16-DEC-2009 11:47:57; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;40758
15; 4732.4; 16-DEC-2009 11:51:18; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40758
16; 4973.5; 16-DEC-2009 11:55:19; Bright; 39.0; 138; 47Eps Vir ; 2.83; 4700;occ; 78; 0;40758
17; 5331.6; 16-DEC-2009 12:01:17; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40758
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19; 5694.0; 16-DEC-2009 12:07:19; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;40758
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22; 6079.5; 16-DEC-2009 12:13:45; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40758
23; 6311.6; 16-DEC-2009 12:17:37; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40758
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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
29; 7252.6; 16-DEC-2009 12:33:18; Dark ; 30.0; 88; 31Eta CMa ; 2.45; 20000;occ; 60; 0;40758
30; 7302.4; 16-DEC-2009 12:34:08; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;40758
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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
10; 3704.4; 16-DEC-2009 13:14:46; Bright; 53.0; 60; 7Bet UMi ; 2.08; 3950;occ; 106; 0;40759
11; 3981.0; 16-DEC-2009 13:19:22; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;40759
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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
14; 4532.1; 16-DEC-2009 13:28:33; Bright; 49.0; 83; ; 2.38; 11000;occ; 98; 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
30; 7344.4; 16-DEC-2009 14:15:26; Dark ; 54.0; 37; 25Del CMa ; 1.83; 5900;occ; 108; 0;40759
31; 7574.5; 16-DEC-2009 14:19:16; Dark ; 31.5; 47; 2Bet CMa ; 1.98; 28000;occ; 63; 0;40759
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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  
 18; 5543.4; 16-DEC-2009 15:26:01; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;40760  
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 21; 5982.4; 16-DEC-2009 15:33:19; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40760  
 22; 6080.9; 16-DEC-2009 15:34:58; Dark ; 38.5; 99; Del Cen ; 2.58; 26000;occ; 77; 0;40760  
 23; 6313.5; 16-DEC-2009 15:38:51; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;40760  
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 27; 6947.1; 16-DEC-2009 15:49:24; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40760  
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 6; 2071.7; 16-DEC-2009 16:08:45; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40761  
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 8; 2321.5; 16-DEC-2009 16:12:55; Bright; 42.0; 176; 23Zet Tau ; 3.02; 22000;occ; 84; 0;40761  
 9; 2444.7; 16-DEC-2009 16:14:58; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40761  
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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  
 14; 4137.0; 16-DEC-2009 16:43:10; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;40761  
 15; 4338.9; 16-DEC-2009 16:46:32; Bright; 51.5; 180; 27Gam Boo ; 3.04; 8000;occ; 103; 0;40761  
 16; 4532.7; 16-DEC-2009 16:49:46; Bright; 35.0; 83; ; 2.38; 11000;occ; 70; 0;40761  
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 18; 4975.5; 16-DEC-2009 16:57:09; Bright; 30.0; 138; 47Eps Vir ; 2.83; 4700;occ; 60; 0;40761  
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 21; 5697.4; 16-DEC-2009 17:09:10; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40761  
 22; 5795.7; 16-DEC-2009 17:10:49; Dark ; 42.0; 171; 2Eps Crv ; 3.00; 4250;occ; 84; 0;40761  
 23; 5983.1; 16-DEC-2009 17:13:56; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40761  
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 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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3; 1218.7; 16-DEC-2009 19:15:44; Dark ; 38.0; 88; 31Eta CMa ; 2.45; 20000;occ; 76; 0;40763
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23; 6826.2; 17-DEC-2009 08:33:23; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40770  
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25; 7114.6; 17-DEC-2009 08:38:11; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40770  
26; 7307.4; 17-DEC-2009 08:41:24; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;40770  
27; 7413.7; 17-DEC-2009 08:43:10; Dark ; 40.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 80; 0;40770  
28; 7576.3; 17-DEC-2009 08:45:53; Dark ; 52.5; 47; 2Bet CMa ; 1.98; 28000;occ; 105; 0;40770  
29; 7786.6; 17-DEC-2009 08:49:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40770

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10; 3978.3; 17-DEC-2009 09:26:31; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40771  
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12; 4339.9; 17-DEC-2009 09:32:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40771  
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18; 5989.4; 17-DEC-2009 10:00:02; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40771  
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26; 7307.6; 17-DEC-2009 10:22:00; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40771  
27; 7414.1; 17-DEC-2009 10:23:47; Dark ; 45.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 90; 0;40771  
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4; 2189.2; 17-DEC-2009 10:37:18; Dark ; 51.5; 13; 87Alp Tau ; 0.87; 3800;occ; 103; 0;40772  
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10; 3978.0; 17-DEC-2009 11:07:06; Bright; 61.0; 32; 77Eps UMa ; 1.76; 11000;occ; 122; 0;40772



11; 4136.2; 17-DEC-2009 11:09:45; Bright; 58.0; 39; 85Eta UMA ; 1.85; 24000;occ; 116; 0;40772  
 12; 4340.0; 17-DEC-2009 11:13:09; Bright; 52.0; 180; 27Gam Boo ; 3.04; 8000;occ; 104; 0;40772  
 13; 4534.5; 17-DEC-2009 11:16:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;40772  
 14; 4737.1; 17-DEC-2009 11:19:46; Bright; 41.5; 111; 8Eta Boo ; 2.68; 6000;occ; 83; 0;40772  
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 16; 5632.8; 17-DEC-2009 11:34:41; Dark ; 31.0; 163; 7Del Crv ; 2.94; 11000;occ; 62; 0;40772  
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 22; 6630.4; 17-DEC-2009 11:51:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40772  
 23; 6827.3; 17-DEC-2009 11:54:36; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40772  
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 9; 2783.2; 17-DEC-2009 12:27:48; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;40773  
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 12; 4136.4; 17-DEC-2009 12:50:21; Bright; 58.0; 39; 85Eta UMA ; 1.85; 24000;occ; 116; 0;40773  
 13; 4534.7; 17-DEC-2009 12:56:59; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;40773  
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 17; 5710.7; 17-DEC-2009 13:16:35; Dark ; 56.5; 106; 9Bet Crv ; 2.65; 5600;occ; 113; 0;40773  
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 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

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20091218\_113859\_000058512085\_00152\_40787\_5803.N1

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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 2; 1279.2; 18-DEC-2009 18:13:31; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40791  
 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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1; -676.3; 19-DEC-2009 00:23:19; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;40794  
 2; -465.4; 19-DEC-2009 00:26:50; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40794  
 3; -300.9; 19-DEC-2009 00:29:34; Dark ; 64.0; 106; 9Bet Crv ; 2.65; 5600;occ; 128; 0;40794  
 4; -31.6; 19-DEC-2009 00:34:03; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40794  
 5; 69.1; 19-DEC-2009 00:35:44; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40795  
 6; 308.0; 19-DEC-2009 00:39:43; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40795  
 7; 523.3; 19-DEC-2009 00:43:18; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;40795  
 8; 610.6; 19-DEC-2009 00:44:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40795  
 9; 806.2; 19-DEC-2009 00:48:01; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40795  
 10; 935.6; 19-DEC-2009 00:50:11; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40795  
 11; 1091.1; 19-DEC-2009 00:52:46; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;40795  
 12; 1280.7; 19-DEC-2009 00:55:56; Dark ; 50.0; 23; 21Eps CMa ; 1.50; 26000;occ; 100; 0;40795  
 13; 1385.0; 19-DEC-2009 00:57:40; Dark ; 53.5; 179; 240mi2CMa ; 3.03; 24000;occ; 107; 0;40795  
 14; 1559.4; 19-DEC-2009 01:00:34; Dark ; 60.0; 1; 9Alp CMa ; -1.44; 11000;occ; 120; 0;40795  
 15; 1752.0; 19-DEC-2009 01:03:47; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40795  
 16; 1881.3; 19-DEC-2009 01:05:56; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40795  
 17; 2061.4; 19-DEC-2009 01:08:56; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;40795  
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13; 4344.8; 21-DEC-2009 15:49:09; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;40832
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27; 7146.3; 21-DEC-2009 16:35:51; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;40832
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 19; 5394.4; 21-DEC-2009 19:27:51; Dark ; 53.0; 15; 67Alp Vir ; 0.98; 28000;occ; 106; 0;40834  
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 22; 6031.8; 21-DEC-2009 19:38:28; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40834  
 23; 6132.4; 21-DEC-2009 19:40:09; Dark ; 42.5; 26; Gam Cru ; 1.62; 2900;occ; 85; 0;40834  
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 23; 4127.5; 24-DEC-2009 00:45:54; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40866  
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 25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866  
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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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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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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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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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1; 1164.2; 23-DEC-2009 15:33:31; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 82;40861  
2; 1304.5; 23-DEC-2009 15:35:51; Dark ; 49.5; 23; 21Eps CMa ; 1.50; 26000;occ; 99; 0;40861  
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  
2; 1124.0; 23-DEC-2009 17:13:27; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40862  
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  
 20; 5691.1; 23-DEC-2009 18:29:34; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;40862  
 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  
 25; 6600.0; 23-DEC-2009 18:44:43; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40862  
 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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1; 863.0; 23-DEC-2009 18:49:42; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 26;40863  
 2; 981.3; 23-DEC-2009 18:51:40; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;40863  
 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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1; -611.1; 24-DEC-2009 01:07:31; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;40866  
 2; -342.4; 24-DEC-2009 01:12:00; Dark ; 45.0; 54; 5The Cen ; 2.06; 4500;occ; 90; 0;40866  
 3; -224.5; 24-DEC-2009 01:13:58; Dark ; 45.5; 123; Iot Cen ; 2.75; 10200;occ; 91; 0;40866  
 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  
 21; 2709.0; 24-DEC-2009 02:02:51; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;40867  
 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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1; -1895.8; 24-DEC-2009 02:26:42; Bright; 55.5; 39; 85Eta UMA ; 1.85; 24000;occ; 111; 26;40867  
 2; -1688.6; 24-DEC-2009 02:30:10; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40867  
 3; -1483.9; 24-DEC-2009 02:33:34; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40867

4; -1264.3; 24-DEC-2009 02:37:14; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;40867  
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  
11; 566.9; 24-DEC-2009 03:07:45; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40868  
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  
18; 1568.0; 24-DEC-2009 03:24:26; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;40868  
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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1; -2335.9; 24-DEC-2009 03:59:58; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;40868  
2; -2084.0; 24-DEC-2009 04:04:10; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40868  
3; -1908.7; 24-DEC-2009 04:07:05; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40868  
4; -1688.7; 24-DEC-2009 04:10:45; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40868  
5; -1483.9; 24-DEC-2009 04:14:10; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;40868  
6; -1263.8; 24-DEC-2009 04:17:50; Bright; 67.0; 111; 8Eta Boo ; 2.68; 6000;occ; 134; 0;40868  
7; -739.8; 24-DEC-2009 04:26:34; Bright; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;40868  
8; -609.2; 24-DEC-2009 04:28:45; Dark ; 57.0; 15; 67Alp Vir ; 0.98; 28000;occ; 114; 0;40868  
9; -341.3; 24-DEC-2009 04:33:13; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;40868  
10; -223.0; 24-DEC-2009 04:35:11; Dark ; 42.0; 123; Iot Cen ; 2.75; 10200;occ; 84; 0;40868  
11; 20.0; 24-DEC-2009 04:39:14; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;40869  
12; 108.7; 24-DEC-2009 04:40:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40869  
13; 375.4; 24-DEC-2009 04:45:10; Dark ; 56.0; 113; Mu Vel ; 2.69; 5000;occ; 112; 0;40869  
14; 567.6; 24-DEC-2009 04:48:22; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40869  
15; 672.8; 24-DEC-2009 04:50:07; Dark ; 40.5; 41; Eps Car ; 1.86; 4100;occ; 81; 0;40869  
16; 853.6; 24-DEC-2009 04:53:08; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;40869  
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27; 7450.6; 26-DEC-2009 12:22:15; Dark ; 46.5; 179; 240mi2CMA ; 3.03; 24000;occ; 93; 0;40901
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21;	5843.1;	26-DEC-2009	18:37:51;	Dark	;	42.5;	123;	Iot Cen	;	2.75;	10200;	occ;	85;	0;	40905
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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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3;	1319.0;	26-DEC-2009	19:03:03;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40906
4;	1415.9;	26-DEC-2009	19:04:40;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	93;	0;	40906
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6;	1724.9;	26-DEC-2009	19:09:49;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	90;	0;	40906
7;	1878.8;	26-DEC-2009	19:12:23;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	40906
8;	2039.8;	26-DEC-2009	19:15:04;	Dark	;	51.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	103;	0;	40906
9;	2259.7;	26-DEC-2009	19:18:44;	Dark	;	63.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	126;	0;	40906
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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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13;	3643.7;	26-DEC-2009	19:41:48;	Bright;		46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	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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26;	6625.1;	26-DEC-2009	20:31:29;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;	occ;	84;	0;	40906
27;	6727.3;	26-DEC-2009	20:33:11;	Dark	;	53.0;	41;	Eps Car	;	1.86;	4100;	occ;	106;	0;	40906
28;	6912.0;	26-DEC-2009	20:36:16;	Dark	;	21.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	42;	0;	40906

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5;	-1246.0;	27-DEC-2009	02:43:17;	Bright;		48.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	96;	0;	40910
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