

# GOMOS Daily Report 16-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	18DEC2009 04:36:42
Data source version	GOMOS/5.00L04
Start time of products	16DEC2009 00:00:32
Stop time of products	16DEC2009 23:58:01
Store outputs in DB	Yes
Nb of level 1b prods	156
Nb of prods with errors	2

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

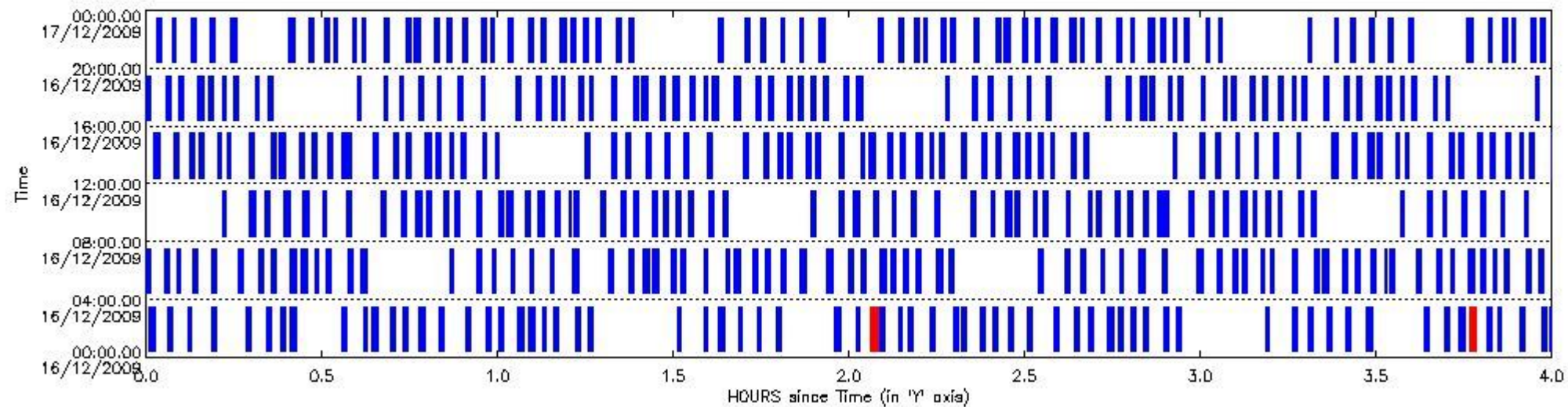
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

UTC start time	Star name	Star ID	Orbit
16-DEC-2009 02:03:44	9BetCrv	106	40752
16-DEC-2009 03:45:58	2EpsCrv	171	40753

### 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_1PNPDE20091216_000032_000000542085_00116_40751_8568.N1	16-DEC-2009 00:00:32	Bright	53.500	180	27Gam Boo	3.0400	8000.0	107	40751	No
2	GOM_TRA_1PNPDE20091216_000344_000000372085_00116_40751_8569.N1	16-DEC-2009 00:03:44	Bright	37.000	83		2.3780	11000.	74	40751	No
3	GOM_TRA_1PNPDE20091216_000704_000000402085_00116_40751_8570.N1	16-DEC-2009 00:07:04	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	40751	No
4	GOM_TRA_1PNPDE20091216_001102_000000542085_00116_40751_8571.N1	16-DEC-2009 00:11:02	Bright	53.500	138	47Eps Vir	2.8280	4700.0	107	40751	No
5	GOM_TRA_1PNPDE20091216_001700_000000572085_00116_40751_8564.N1	16-DEC-2009 00:17:00	Twilight	56.500	15	67Alp Vir	0.97600	28000.	113	40751	No
6	GOM_TRA_1PNPDE20091216_002030_000000462085_00116_40751_8565.N1	16-DEC-2009 00:20:30	Dark	46.000	169	46Gam Hya	2.9910	4700.0	92	40751	No
7	GOM_TRA_1PNPDE20091216_002300_000000522085_00116_40751_8566.N1	16-DEC-2009 00:23:00	Dark	52.000	106	9Bet Crv	2.6480	5600.0	104	40751	No
8	GOM_TRA_1PNPDE20091216_002436_000000592085_00116_40751_8567.N1	16-DEC-2009 00:24:36	Dark	59.000	171	2Eps Crv	3.0010	4250.0	118	40751	No
9	GOM_TRA_1PNPDE20091216_003319_000000502085_00117_40752_8568.N1	16-DEC-2009 00:33:19	Dark	49.500	113	Mu Vel	2.6920	5000.0	99	40752	No

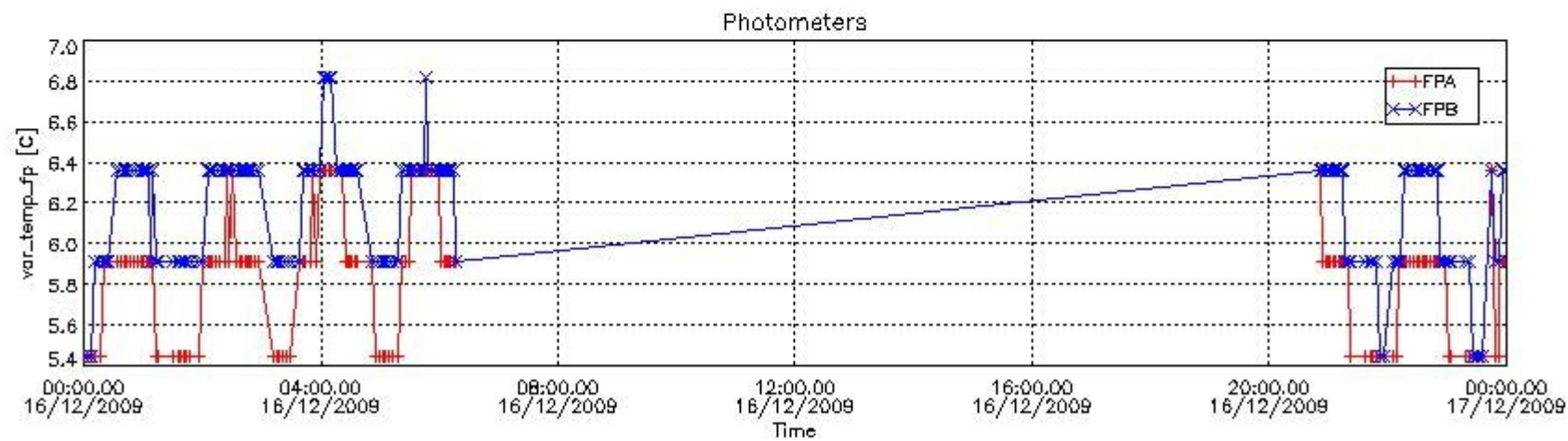
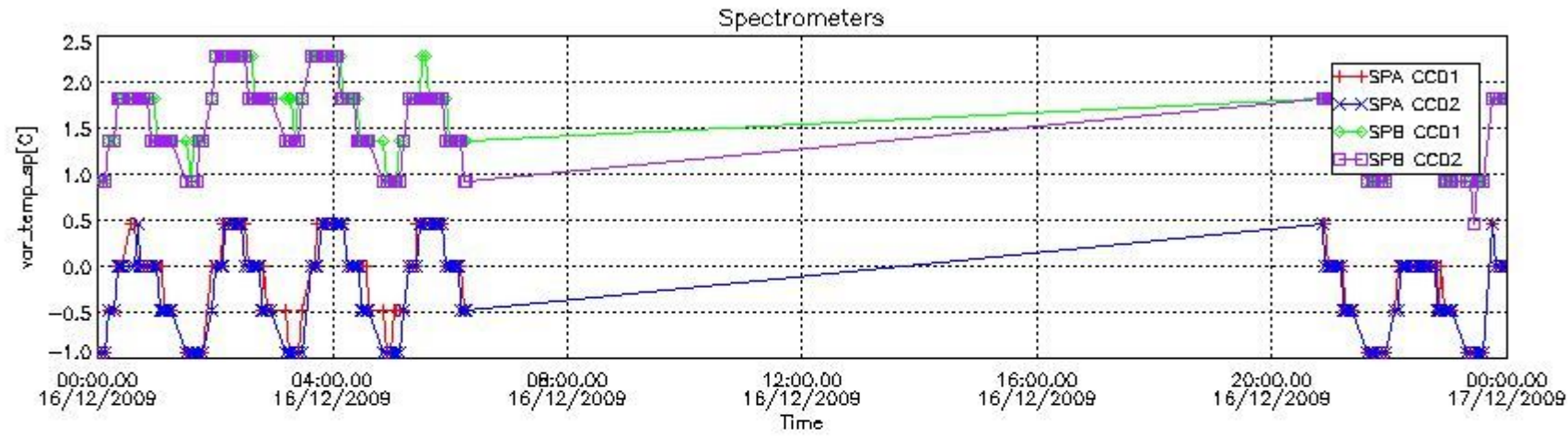
10	GOM_TRA_1PNPDE20091216_003706_000000422085_00117_40752_8569.N1	16-DEC-2009 00:37:06	Dark	41.500	71	lot Car	2.2460	7700.0	83	40752	No
11	GOM_TRA_1PNPDE20091216_004146_000000472085_00117_40752_8570.N1	16-DEC-2009 00:41:46	Dark	47.000	34	Gam2Vel	1.7930	23000.	94	40752	No
12	GOM_TRA_1PNPDE20091216_004354_000000492085_00117_40752_8571.N1	16-DEC-2009 00:43:54	Dark	48.500	2	Alp Car	-0.73600	7000.0	97	40752	No
13	GOM_TRA_1PNPDE20091216_004638_000000532085_00117_40752_8572.N1	16-DEC-2009 00:46:38	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	40752	No
14	GOM_TRA_1PNPDE20091216_004953_000000532085_00117_40752_8573.N1	16-DEC-2009 00:49:53	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	40752	No
15	GOM_TRA_1PNPDE20091216_005427_000000532085_00117_40752_8574.N1	16-DEC-2009 00:54:27	Straylight	52.500	47	2Bet CMa	1.9760	28000.	105	40752	No
16	GOM_TRA_1PNPDE20091216_005759_000000502085_00117_40752_8575.N1	16-DEC-2009 00:57:59	Straylight	49.500	7	19Bet Ori	0.10000	14000.	99	40752	No
17	GOM_TRA_1PNPDE20091216_010015_000000482085_00117_40752_8576.N1	16-DEC-2009 01:00:15	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	40752	No
18	GOM_TRA_1PNPDE20091216_010324_000000652085_00117_40752_8577.N1	16-DEC-2009 01:03:24	Tw_i_and_stray	65.000	14	58Alp Ori	0.87000	3000.0	130	40752	No
19	GOM_TRA_1PNPDE20091216_010520_000000542085_00117_40752_8578.N1	16-DEC-2009 01:05:20	Tw_i_and_stray	54.000	13	87Alp Tau	0.86700	3800.0	108	40752	No
20	GOM_TRA_1PNPDE20091216_010735_000000432085_00117_40752_8579.N1	16-DEC-2009 01:07:35	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40752	No
21	GOM_TRA_1PNPDE20091216_010938_000000442085_00117_40752_8580.N1	16-DEC-2009 01:09:38	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	40752	No
22	GOM_TRA_1PNPDE20091216_011314_000000452085_00117_40752_8581.N1	16-DEC-2009 01:13:14	Bright	45.000	107	37The Aur	2.6490	11000.	90	40752	No
23	GOM_TRA_1PNPDE20091216_011524_000000452085_00117_40752_8582.N1	16-DEC-2009 01:15:24	Bright	45.000	42	34Bet Aur	1.9000	10200.	90	40752	No
24	GOM_TRA_1PNPDE20091216_013034_000000382085_00117_40752_8583.N1	16-DEC-2009 01:30:34	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	40752	No
25	GOM_TRA_1PNPDE20091216_013512_000000432085_00117_40752_8584.N1	16-DEC-2009 01:35:12	Bright	42.500	32	77Eps UMa	1.7630	11000.	85	40752	No
26	GOM_TRA_1PNPDE20091216_013747_000000582085_00117_40752_8585.N1	16-DEC-2009 01:37:47	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	40752	No
27	GOM_TRA_1PNPDE20091216_014108_000000362085_00117_40752_8586.N1	16-DEC-2009 01:41:08	Bright	36.000	180	27Gam Boo	3.0400	8000.0	72	40752	No
28	GOM_TRA_1PNPDE20091216_014420_000000372085_00117_40752_8587.N1	16-DEC-2009 01:44:20	Bright	36.500	83		2.3780	11000.	73	40752	No
29	GOM_TRA_1PNPDE20091216_014740_000000392085_00117_40752_8588.N1	16-DEC-2009 01:47:40	Bright	39.000	111	8Eta Boo	2.6800	6000.0	78	40752	No
30	GOM_TRA_1PNPDE20091216_015737_000000502085_00117_40752_8584.N1	16-DEC-2009 01:57:37	Tw_i_and_stray	50.000	15	67Alp Vir	0.97600	28000.	100	40752	No
31	GOM_TRA_1PNPDE20091216_020107_000000472085_00117_40752_8585.N1	16-DEC-2009 02:01:07	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40752	No
32	GOM_TRA_1PNPDE20091216_020513_000000542085_00117_40752_8586.N1	16-DEC-2009 02:05:13	Dark	54.000	171	2Eps Crv	3.0010	4250.0	108	40752	No
33	GOM_TRA_1PNPDE20091216_020827_000000412085_00117_40752_8587.N1	16-DEC-2009 02:08:27	Dark	41.000	64	Gam Cen	2.2000	10600.	82	40752	No
34	GOM_TRA_1PNPDE20091216_021005_000000412085_00118_40753_8588.N1	16-DEC-2009 02:10:05	Dark	41.000	99	Del Cen	2.5750	26000.	82	40753	No
35	GOM_TRA_1PNPDE20091216_021356_000000462085_00118_40753_8589.N1	16-DEC-2009 02:13:56	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40753	No
36	GOM_TRA_1PNPDE20091216_021743_000000502085_00118_40753_8590.N1	16-DEC-2009 02:17:43	Dark	50.000	71	lot Car	2.2460	7700.0	100	40753	No
37	GOM_TRA_1PNPDE20091216_022223_000000502085_00118_40753_8591.N1	16-DEC-2009 02:22:23	Dark	49.500	34	Gam2Vel	1.7930	23000.	99	40753	No
38	GOM_TRA_1PNPDE20091216_022430_000000512085_00118_40753_8592.N1	16-DEC-2009 02:24:30	Dark	50.500	2	Alp Car	-0.73600	7000.0	101	40753	No
39	GOM_TRA_1PNPDE20091216_022714_000000532085_00118_40753_8593.N1	16-DEC-2009 02:27:14	Dark	52.500	117	Pi Pup	2.7060	3800.0	105	40753	No
40	GOM_TRA_1PNPDE20091216_023029_000000522085_00118_40753_8594.N1	16-DEC-2009 02:30:29	Straylight	52.000	23	21Eps CMa	1.5020	26000.	104	40753	No
41	GOM_TRA_1PNPDE20091216_023503_000000522085_00118_40753_8595.N1	16-DEC-2009 02:35:03	Straylight	51.500	47	2Bet CMa	1.9760	28000.	103	40753	No
42	GOM_TRA_1PNPDE20091216_023835_000000472085_00118_40753_8596.N1	16-DEC-2009 02:38:35	Straylight	47.000	7	19Bet Ori	0.10000	14000.	94	40753	No
43	GOM_TRA_1PNPDE20091216_024051_000000492085_00118_40753_8597.N1	16-DEC-2009 02:40:51	Straylight	48.500	30	46Eps Ori	1.6940	30000.	97	40753	No
44	GOM_TRA_1PNPDE20091216_024400_000000652085_00118_40753_8598.N1	16-DEC-2009 02:44:00	Tw_i_and_stray	64.500	14	58Alp Ori	0.87000	3000.0	129	40753	No
45	GOM_TRA_1PNPDE20091216_024556_000000542085_00118_40753_8599.N1	16-DEC-2009 02:45:56	Tw_i_and_stray	53.500	13	87Alp Tau	0.86700	3800.0	107	40753	No
46	GOM_TRA_1PNPDE20091216_024810_000000452085_00118_40753_8600.N1	16-DEC-2009 02:48:10	Bright	45.000	176	23Zet Tau	3.0200	22000.	90	40753	No
47	GOM_TRA_1PNPDE20091216_025013_000000442085_00118_40753_8601.N1	16-DEC-2009 02:50:13	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	40753	No
48	GOM_TRA_1PNPDE20091216_025349_000000452085_00118_40753_8602.N1	16-DEC-2009 02:53:49	Bright	44.500	107	37The Aur	2.6490	11000.	89	40753	No
49	GOM_TRA_1PNPDE20091216_025600_000000422085_00118_40753_8603.N1	16-DEC-2009 02:56:00	Bright	41.500	42	34Bet Aur	1.9000	10200.	83	40753	No
50	GOM_TRA_1PNPDE20091216_031110_000000402085_00118_40753_8609.N1	16-DEC-2009 03:11:10	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40753	No
51	GOM_TRA_1PNPDE20091216_031548_000000422085_00118_40753_8610.N1	16-DEC-2009 03:15:48	Bright	42.000	32	77Eps UMa	1.7630	11000.	84	40753	No
52	GOM_TRA_1PNPDE20091216_031823_000000422085_00118_40753_8611.N1	16-DEC-2009 03:18:23	Bright	41.500	39	85Eta UMa	1.8540	24000.	83	40753	No
53	GOM_TRA_1PNPDE20091216_032144_000000382085_00118_40753_8612.N1	16-DEC-2009 03:21:44	Bright	38.000	180	27Gam Boo	3.0400	8000.0	76	40753	No
54	GOM_TRA_1PNPDE20091216_032457_000000372085_00118_40753_8613.N1	16-DEC-2009 03:24:57	Bright	36.500	83		2.3780	11000.	73	40753	No
55	GOM_TRA_1PNPDE20091216_032816_000000602085_00118_40753_8614.N1	16-DEC-2009 03:28:16	Bright	60.000	111	8Eta Boo	2.6800	6000.0	120	40753	No
56	GOM_TRA_1PNPDE20091216_033813_000000522085_00118_40753_8615.N1	16-DEC-2009 03:38:13	Tw_i_and_stray	52.000	15	67Alp Vir	0.97600	28000.	104	40753	No
57	GOM_TRA_1PNPDE20091216_034144_000000472085_00118_40753_8616.N1	16-DEC-2009 03:41:44	Dark	46.500	169	46Gam Hya	2.9910	4700.0	93	40753	No
58	GOM_TRA_1PNPDE20091216_034414_000000552085_00118_40753_8617.N1	16-DEC-2009 03:44:14	Dark	55.000	106	9Bet Crv	2.6480	5600.0	110	40753	No
59	GOM_TRA_1PNPDE20091216_034904_000000392085_00118_40753_8618.N1	16-DEC-2009 03:49:04	Dark	39.000	64	Gam Cen	2.2000	10600.	78	40753	No
60	GOM_TRA_1PNPDE20091216_035042_000000462085_00119_40754_8619.N1	16-DEC-2009 03:50:42	Dark	46.000	99	Del Cen	2.5750	26000.	92	40754	No
61	GOM_TRA_1PNPDE20091216_035433_000000472085_00119_40754_8620.N1	16-DEC-2009 03:54:33	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40754	No
62	GOM_TRA_1PNPDE20091216_035820_000000472085_00119_40754_8621.N1	16-DEC-2009 03:58:20	Dark	47.000	71	lot Car	2.2460	7700.0	94	40754	No
63	GOM_TRA_1PNPDE20091216_040300_000000502085_00119_40754_8622.N1	16-DEC-2009 04:03:00	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40754	No
64	GOM_TRA_1PNPDE20091216_040507_000000452085_00119_40754_8623.N1	16-DEC-2009 04:05:07	Dark	45.000	2	Alp Car	-0.73600	7000.0	90	40754	No
65	GOM_TRA_1PNPDE20091216_040751_000000542085_00119_40754_8624.N1	16-DEC-2009 04:07:51	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	40754	No
66	GOM_TRA_1PNPDE20091216_041106_000000532085_00119_40754_8625.N1	16-DEC-2009 04:11:06	Straylight	52.500	23	21Eps CMa	1.5020	26000.	105	40754	No
67	GOM_TRA_1PNPDE20091216_041539_000000532085_00119_40754_8626.N1	16-DEC-2009 04:15:39	Straylight	53.000	47	2Bet CMa	1.9760	28000.	106	40754	No
68	GOM_TRA_1PNPDE20091216_041911_000000492085_00119_40754_8627.N1	16-DEC-2009 04:19:11	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	40754	No



69	GOM_TRA_1PNPDE20091216_042126_000000472085_00119_40754_8628.N1	16-DEC-2009 04:21:26	Straylight	46.500	30	46Eps Ori	1.6940	30000.	93	40754	No
70	GOM_TRA_1PNPDE20091216_042436_000000602085_00119_40754_8629.N1	16-DEC-2009 04:24:36	Tw_i_and_stray	59.500	14	58Alp Ori	0.87000	3000.0	119	40754	No
71	GOM_TRA_1PNPDE20091216_042632_000000522085_00119_40754_8630.N1	16-DEC-2009 04:26:32	Tw_i_and_stray	51.500	13	87Alp Tau	0.86700	3800.0	103	40754	No
72	GOM_TRA_1PNPDE20091216_042846_000000422085_00119_40754_8631.N1	16-DEC-2009 04:28:46	Bright	41.500	176	23Zet Tau	3.0200	22000.	83	40754	No
73	GOM_TRA_1PNPDE20091216_043049_000000432085_00119_40754_8632.N1	16-DEC-2009 04:30:49	Bright	43.000	28	12Bet Tau	1.6500	15200.	86	40754	No
74	GOM_TRA_1PNPDE20091216_043425_000000442085_00119_40754_8633.N1	16-DEC-2009 04:34:25	Bright	44.000	107	37The Aur	2.6490	11000.	88	40754	No
75	GOM_TRA_1PNPDE20091216_043635_000000612085_00119_40754_8634.N1	16-DEC-2009 04:36:35	Bright	60.500	42	34Bet Aur	1.9000	10200.	121	40754	No
76	GOM_TRA_1PNPDE20091216_045146_000000382085_00119_40754_8633.N1	16-DEC-2009 04:51:46	Bright	37.500	60	7Bet UMi	2.0810	3950.0	75	40754	No
77	GOM_TRA_1PNPDE20091216_045624_000000442085_00119_40754_8634.N1	16-DEC-2009 04:56:24	Bright	44.000	32	77Eps UMa	1.7630	11000.	88	40754	No
78	GOM_TRA_1PNPDE20091216_045859_000000422085_00119_40754_8635.N1	16-DEC-2009 04:58:59	Bright	42.000	39	85Eta UMa	1.8540	24000.	84	40754	No
79	GOM_TRA_1PNPDE20091216_050220_000000372085_00119_40754_8636.N1	16-DEC-2009 05:02:20	Bright	37.000	180	27Gam Boo	3.0400	8000.0	74	40754	No
80	GOM_TRA_1PNPDE20091216_050533_000000362085_00119_40754_8637.N1	16-DEC-2009 05:05:33	Bright	36.000	83		2.3780	11000.	72	40754	No
81	GOM_TRA_1PNPDE20091216_050853_000000402085_00119_40754_8638.N1	16-DEC-2009 05:08:53	Bright	39.500	111	8Eta Boo	2.6800	6000.0	79	40754	No
82	GOM_TRA_1PNPDE20091216_051252_000000562085_00119_40754_8639.N1	16-DEC-2009 05:12:52	Bright	56.000	138	47Eps Vir	2.8280	4700.0	112	40754	No
83	GOM_TRA_1PNPDE20091216_051850_000000542085_00119_40754_8640.N1	16-DEC-2009 05:18:50	Tw_i_and_stray	53.500	15	67Alp Vir	0.97600	28000.	107	40754	No
84	GOM_TRA_1PNPDE20091216_052220_000000452085_00119_40754_8641.N1	16-DEC-2009 05:22:20	Dark	44.500	169	46Gam Hya	2.9910	4700.0	89	40754	No
85	GOM_TRA_1PNPDE20091216_052451_000000542085_00119_40754_8642.N1	16-DEC-2009 05:24:51	Dark	54.000	106	9Bet Crv	2.6480	5600.0	108	40754	No
86	GOM_TRA_1PNPDE20091216_052628_000000552085_00119_40754_8643.N1	16-DEC-2009 05:26:28	Dark	55.000	171	2Eps Crv	3.0010	4250.0	110	40754	No
87	GOM_TRA_1PNPDE20091216_052940_000000432085_00119_40754_8644.N1	16-DEC-2009 05:29:40	Dark	43.000	64	Gam Cen	2.2000	10600.	86	40754	No
88	GOM_TRA_1PNPDE20091216_053118_000000422085_00120_40755_8645.N1	16-DEC-2009 05:31:18	Dark	41.500	99	Del Cen	2.5750	26000.	83	40755	No
89	GOM_TRA_1PNPDE20091216_053510_000000452085_00120_40755_8646.N1	16-DEC-2009 05:35:10	Dark	44.500	113	Mu Vel	2.6920	5000.0	89	40755	No
90	GOM_TRA_1PNPDE20091216_053856_000000422085_00120_40755_8647.N1	16-DEC-2009 05:38:56	Dark	41.500	71	lot Car	2.2460	7700.0	83	40755	No
91	GOM_TRA_1PNPDE20091216_054337_000000502085_00120_40755_8648.N1	16-DEC-2009 05:43:37	Dark	50.000	34	Gam2Vel	1.7930	23000.	100	40755	No
92	GOM_TRA_1PNPDE20091216_054543_000000472085_00120_40755_8649.N1	16-DEC-2009 05:45:43	Dark	47.000	2	Alp Car	-0.73600	7000.0	94	40755	No
93	GOM_TRA_1PNPDE20091216_054827_000000522085_00120_40755_8650.N1	16-DEC-2009 05:48:27	Dark	51.500	117	Pi Pup	2.7060	3800.0	103	40755	No
94	GOM_TRA_1PNPDE20091216_055142_000000552085_00120_40755_8651.N1	16-DEC-2009 05:51:42	Straylight	55.000	23	21Eps CMa	1.5020	26000.	110	40755	No
95	GOM_TRA_1PNPDE20091216_055615_000000512085_00120_40755_8652.N1	16-DEC-2009 05:56:15	Straylight	51.000	47	2Bet CMa	1.9760	28000.	102	40755	No
96	GOM_TRA_1PNPDE20091216_055948_000000482085_00120_40755_8653.N1	16-DEC-2009 05:59:48	Straylight	48.000	7	19Bet Ori	0.10000	14000.	96	40755	No
97	GOM_TRA_1PNPDE20091216_060202_000000462085_00120_40755_8654.N1	16-DEC-2009 06:02:02	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	40755	No
98	GOM_TRA_1PNPDE20091216_060511_000000672085_00120_40755_8655.N1	16-DEC-2009 06:05:11	Tw_i_and_stray	67.000	14	58Alp Ori	0.87000	3000.0	134	40755	No
99	GOM_TRA_1PNPDE20091216_060708_000000502085_00120_40755_8656.N1	16-DEC-2009 06:07:08	Tw_i_and_stray	50.000	13	87Alp Tau	0.86700	3800.0	100	40755	No
100	GOM_TRA_1PNPDE20091216_060921_000000452085_00120_40755_8657.N1	16-DEC-2009 06:09:21	Bright	44.500	176	23Zet Tau	3.0200	22000.	89	40755	No
101	GOM_TRA_1PNPDE20091216_061124_000000442085_00120_40755_8658.N1	16-DEC-2009 06:11:24	Bright	44.000	28	12Bet Tau	1.6500	15200.	88	40755	No
102	GOM_TRA_1PNPDE20091216_061500_000000542085_00120_40755_8659.N1	16-DEC-2009 06:15:00	Bright	54.000	107	37The Aur	2.6490	11000.	108	40755	No
103	GOM_TRA_1PNPDE20091216_061711_000000442085_00120_40755_8660.N1	16-DEC-2009 06:17:11	Bright	44.000	42	34Bet Aur	1.9000	10200.	88	40755	No
104	GOM_TRA_1PNPDE20091216_205115_000000532085_00129_40764_8699.N1	16-DEC-2009 20:51:15	Dark	53.000	70	Zet Pup	2.2460	39000.	106	40764	Yes
105	GOM_TRA_1PNPDE20091216_205356_000000542085_00129_40764_8700.N1	16-DEC-2009 20:53:56	Dark	53.500	117	Pi Pup	2.7060	3800.0	107	40764	No
106	GOM_TRA_1PNPDE20091216_205710_000000532085_00129_40764_8701.N1	16-DEC-2009 20:57:10	Straylight	53.000	23	21Eps CMa	1.5020	26000.	106	40764	No
107	GOM_TRA_1PNPDE20091216_205856_000000262085_00129_40764_8702.N1	16-DEC-2009 20:58:56	Straylight	26.000	179	24Omi2CMa	3.0320	24000.	52	40764	No
108	GOM_TRA_1PNPDE20091216_210140_000000522085_00129_40764_8703.N1	16-DEC-2009 21:01:40	Straylight	51.500	47	2Bet CMa	1.9760	28000.	103	40764	No
109	GOM_TRA_1PNPDE20091216_210511_000000492085_00129_40764_8704.N1	16-DEC-2009 21:05:11	Straylight	48.500	7	19Bet Ori	0.10000	14000.	97	40764	No
110	GOM_TRA_1PNPDE20091216_210725_000000482085_00129_40764_8705.N1	16-DEC-2009 21:07:25	Straylight	48.000	30	46Eps Ori	1.6940	30000.	96	40764	No
111	GOM_TRA_1PNPDE20091216_211032_000000652085_00129_40764_8706.N1	16-DEC-2009 21:10:32	Tw_i_and_stray	64.500	14	58Alp Ori	0.87000	3000.0	129	40764	No
112	GOM_TRA_1PNPDE20091216_211231_000000542085_00129_40764_8707.N1	16-DEC-2009 21:12:31	Tw_i_and_stray	53.500	13	87Alp Tau	0.86700	3800.0	107	40764	No
113	GOM_TRA_1PNPDE20091216_211441_000000432085_00129_40764_8708.N1	16-DEC-2009 21:14:41	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40764	No
114	GOM_TRA_1PNPDE20091216_211644_000000442085_00129_40764_8709.N1	16-DEC-2009 21:16:44	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	40764	No
115	GOM_TRA_1PNPDE20091216_212018_000000462085_00129_40764_8710.N1	16-DEC-2009 21:20:18	Bright	45.500	107	37The Aur	2.6490	11000.	91	40764	No
116	GOM_TRA_1PNPDE20091216_212229_000000452085_00129_40764_8711.N1	16-DEC-2009 21:22:29	Bright	44.500	42	34Bet Aur	1.9000	10200.	89	40764	No
117	GOM_TRA_1PNPDE20091216_213746_000000382085_00129_40764_8712.N1	16-DEC-2009 21:37:46	Bright	38.000	60	7Bet UMi	2.0810	3950.0	76	40764	No
118	GOM_TRA_1PNPDE20091216_214221_000000462085_00129_40764_8713.N1	16-DEC-2009 21:42:21	Bright	46.000	32	77Eps UMa	1.7630	11000.	92	40764	No
119	GOM_TRA_1PNPDE20091216_214458_000000402085_00129_40764_8714.N1	16-DEC-2009 21:44:58	Bright	40.000	39	85Eta UMa	1.8540	24000.	80	40764	No
120	GOM_TRA_1PNPDE20091216_214820_000000412085_00129_40764_8715.N1	16-DEC-2009 21:48:20	Bright	41.000	180	27Gam Boo	3.0400	8000.0	82	40764	No
121	GOM_TRA_1PNPDE20091216_215134_000000372085_00129_40764_8716.N1	16-DEC-2009 21:51:34	Bright	36.500	83		2.3780	11000.	73	40764	No
122	GOM_TRA_1PNPDE20091216_215456_000000602085_00129_40764_8717.N1	16-DEC-2009 21:54:56	Bright	59.500	111	8Eta Boo	2.6800	6000.0	119	40764	No
123	GOM_TRA_1PNPDE20091216_220457_000000552085_00129_40764_8719.N1	16-DEC-2009 22:04:57	Tw_i_and_stray	54.500	15	67Alp Vir	0.97600	28000.	109	40764	No
124	GOM_TRA_1PNPDE20091216_220827_000000472085_00129_40764_8720.N1	16-DEC-2009 22:08:27	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40764	No
125	GOM_TRA_1PNPDE20091216_221102_000000632085_00129_40764_8721.N1	16-DEC-2009 22:11:02	Dark	63.000	106	9Bet Crv	2.6480	5600.0	126	40764	No
126	GOM_TRA_1PNPDE20091216_221240_000000312085_00129_40764_8722.N1	16-DEC-2009 22:12:40	Dark	31.000	171	2Eps Crv	3.0010	4250.0	62	40764	No
127	GOM_TRA_1PNPDE20091216_221546_000000402085_00129_40764_8723.N1	16-DEC-2009 22:15:46	Dark	39.500	64	Gam Cen	2.2000	10600.	79	40764	No

128	GOM_TRA_1PNPDE20091216_221725_000000402085_00130_40765_8724.N1	16-DEC-2009 22:17:25	Dark	40.000	99	Del Cen	2.5750	26000.	80	40765	No
129	GOM_TRA_1PNPDE20091216_222118_000000462085_00130_40765_8725.N1	16-DEC-2009 22:21:18	Dark	45.500	113	Mu Vel	2.6920	5000.0	91	40765	No
130	GOM_TRA_1PNPDE20091216_222502_000000462085_00130_40765_8726.N1	16-DEC-2009 22:25:02	Dark	45.500	71	lot Car	2.2460	7700.0	91	40765	No
131	GOM_TRA_1PNPDE20091216_222943_000000482085_00130_40765_8727.N1	16-DEC-2009 22:29:43	Dark	47.500	34	Gam2Vel	1.7930	23000.	95	40765	No
132	GOM_TRA_1PNPDE20091216_223151_000000492085_00130_40765_8728.N1	16-DEC-2009 22:31:51	Dark	49.000	70	Zet Pup	2.2460	39000.	98	40765	No
133	GOM_TRA_1PNPDE20091216_223432_000000542085_00130_40765_8729.N1	16-DEC-2009 22:34:32	Dark	54.000	117	Pi Pup	2.7060	3800.0	108	40765	No
134	GOM_TRA_1PNPDE20091216_223746_000000542085_00130_40765_8730.N1	16-DEC-2009 22:37:46	Straylight	53.500	23	21Eps CMa	1.5020	26000.	107	40765	No
135	GOM_TRA_1PNPDE20091216_223933_000000262085_00130_40765_8731.N1	16-DEC-2009 22:39:33	Straylight	26.000	179	24Omi2CMa	3.0320	24000.	52	40765	No
136	GOM_TRA_1PNPDE20091216_224216_000000492085_00130_40765_8732.N1	16-DEC-2009 22:42:16	Straylight	49.000	47	2Bet CMa	1.9760	28000.	98	40765	No
137	GOM_TRA_1PNPDE20091216_224547_000000492085_00130_40765_8733.N1	16-DEC-2009 22:45:47	Straylight	49.000	7	19Bet Ori	0.10000	14000.	98	40765	No
138	GOM_TRA_1PNPDE20091216_224801_000000462085_00130_40765_8734.N1	16-DEC-2009 22:48:01	Straylight	46.000	30	46Eps Ori	1.6940	30000.	92	40765	No
139	GOM_TRA_1PNPDE20091216_225107_000000662085_00130_40765_8735.N1	16-DEC-2009 22:51:07	Tw_i_and_stray	66.000	14	58Alp Ori	0.87000	3000.0	132	40765	No
140	GOM_TRA_1PNPDE20091216_225306_000000512085_00130_40765_8736.N1	16-DEC-2009 22:53:06	Tw_i_and_stray	50.500	13	87Alp Tau	0.86700	3800.0	101	40765	No
141	GOM_TRA_1PNPDE20091216_225517_000000432085_00130_40765_8737.N1	16-DEC-2009 22:55:17	Bright	43.000	176	23Zet Tau	3.0200	22000.	86	40765	No
142	GOM_TRA_1PNPDE20091216_225720_000000442085_00130_40765_8738.N1	16-DEC-2009 22:57:20	Bright	43.500	28	12Bet Tau	1.6500	15200.	87	40765	No
143	GOM_TRA_1PNPDE20091216_230053_000000442085_00130_40765_8739.N1	16-DEC-2009 23:00:53	Bright	44.000	107	37The Aur	2.6490	11000.	88	40765	No
144	GOM_TRA_1PNPDE20091216_230304_000000432085_00130_40765_8740.N1	16-DEC-2009 23:03:04	Bright	43.000	42	34Bet Aur	1.9000	10200.	86	40765	No
145	GOM_TRA_1PNPDE20091216_231821_000000432085_00130_40765_8741.N1	16-DEC-2009 23:18:21	Bright	42.500	60	7Bet UMi	2.0810	3950.0	85	40765	No
146	GOM_TRA_1PNPDE20091216_232256_000000402085_00130_40765_8742.N1	16-DEC-2009 23:22:56	Bright	40.000	32	77Eps UMa	1.7630	11000.	80	40765	No
147	GOM_TRA_1PNPDE20091216_232534_000000582085_00130_40765_8743.N1	16-DEC-2009 23:25:34	Bright	58.000	39	85Eta UMa	1.8540	24000.	116	40765	No
148	GOM_TRA_1PNPDE20091216_232856_000000362085_00130_40765_8744.N1	16-DEC-2009 23:28:56	Bright	35.500	180	27Gam Boo	3.0400	8000.0	71	40765	No
149	GOM_TRA_1PNPDE20091216_233210_000000362085_00130_40765_8745.N1	16-DEC-2009 23:32:10	Bright	36.000	83		2.3780	11000.	72	40765	No
150	GOM_TRA_1PNPDE20091216_233532_000000422085_00130_40765_8746.N1	16-DEC-2009 23:35:32	Bright	41.500	111	8Eta Boo	2.6800	6000.0	83	40765	No
151	GOM_TRA_1PNPDE20091216_234534_000000572085_00130_40765_8736.N1	16-DEC-2009 23:45:34	Tw_i_and_stray	56.500	15	67Alp Vir	0.97600	28000.	113	40765	Yes
152	GOM_TRA_1PNPDE20091216_234904_000000472085_00130_40765_8737.N1	16-DEC-2009 23:49:04	Dark	47.000	169	46Gam Hya	2.9910	4700.0	94	40765	No
153	GOM_TRA_1PNPDE20091216_235138_000000532085_00130_40765_8738.N1	16-DEC-2009 23:51:38	Dark	53.000	106	9Bet Crv	2.6480	5600.0	106	40765	No
154	GOM_TRA_1PNPDE20091216_235318_000000312085_00130_40765_8739.N1	16-DEC-2009 23:53:18	Dark	31.000	171	2Eps Crv	3.0010	4250.0	62	40765	No
155	GOM_TRA_1PNPDE20091216_235622_000000452085_00130_40765_8740.N1	16-DEC-2009 23:56:22	Dark	44.500	64	Gam Cen	2.2000	10600.	89	40765	No
156	GOM_TRA_1PNPDE20091216_235801_000000442085_00131_40766_8741.N1	16-DEC-2009 23:58:01	Dark	43.500	99	Del Cen	2.5750	26000.	87	40766	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.

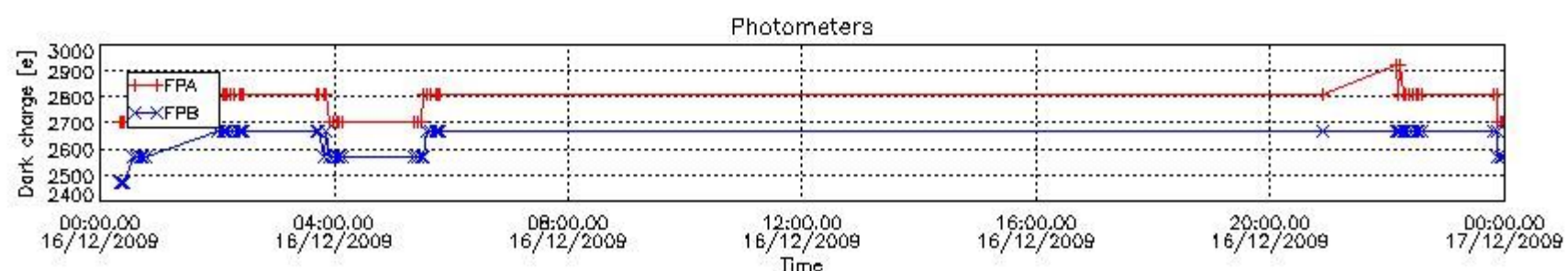
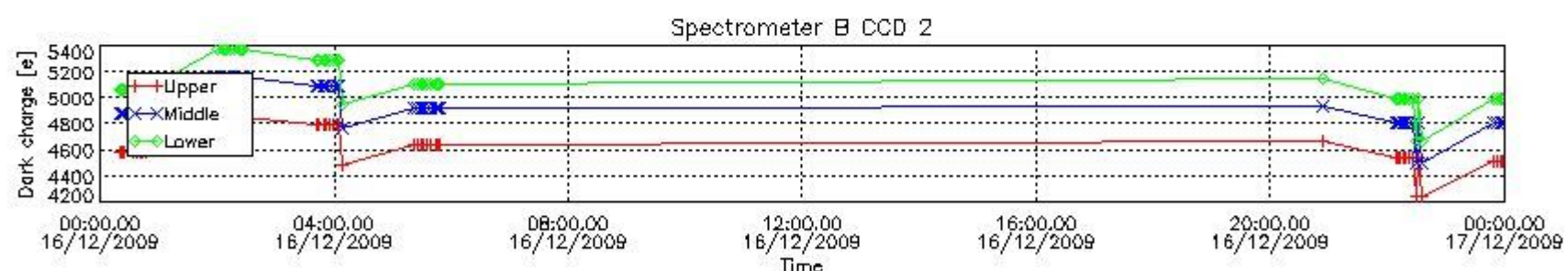
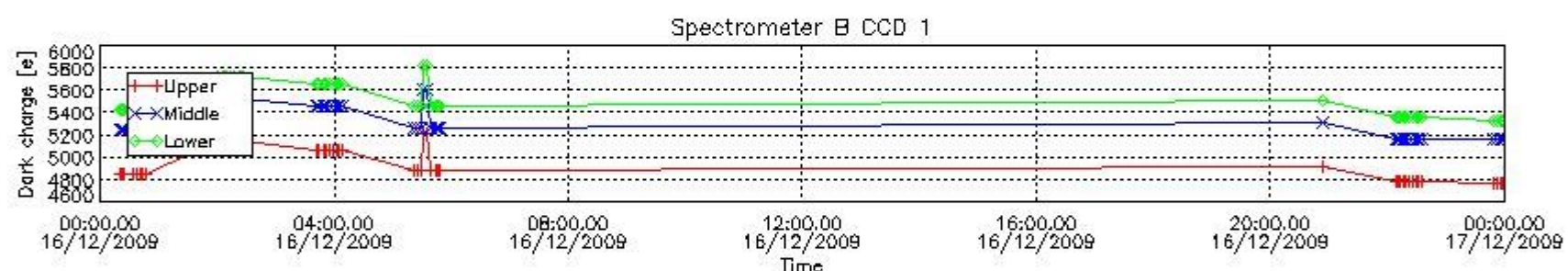
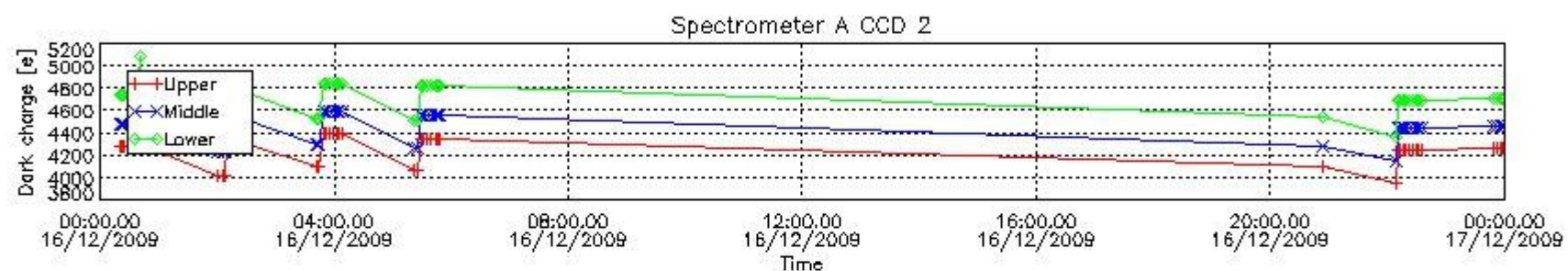
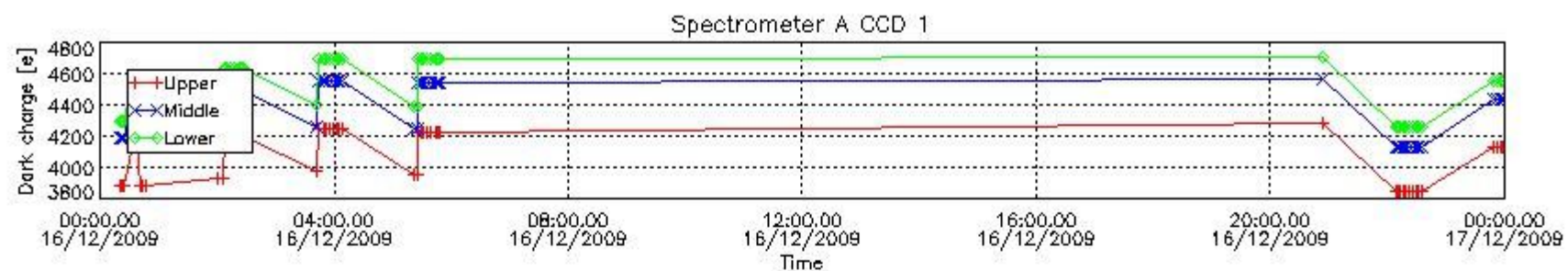
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20091216_205115_000000532085_00129_40764_8699.N1	DC map with no T dep.
GOM_TRA_1PNPDE20091216_205356_000000542085_00129_40764_8700.N1	DC map used
GOM_TRA_1PNPDE20091216_205710_000000532085_00129_40764_8701.N1	DC map used
GOM_TRA_1PNPDE20091216_205856_000000262085_00129_40764_8702.N1	DC map used
GOM_TRA_1PNPDE20091216_210140_000000522085_00129_40764_8703.N1	DC map used
GOM_TRA_1PNPDE20091216_210511_000000492085_00129_40764_8704.N1	DC map used
GOM_TRA_1PNPDE20091216_210725_000000482085_00129_40764_8705.N1	DC map used
GOM_TRA_1PNPDE20091216_211032_000000652085_00129_40764_8706.N1	DC map used
GOM_TRA_1PNPDE20091216_211231_000000542085_00129_40764_8707.N1	DC map used
GOM_TRA_1PNPDE20091216_211441_000000432085_00129_40764_8708.N1	DC map used
GOM_TRA_1PNPDE20091216_211644_000000442085_00129_40764_8709.N1	DC map used
GOM_TRA_1PNPDE20091216_212018_000000462085_00129_40764_8710.N1	DC map used
GOM_TRA_1PNPDE20091216_212229_000000452085_00129_40764_8711.N1	DC map used
GOM_TRA_1PNPDE20091216_213746_000000382085_00129_40764_8712.N1	DC map used



GOM_TRA_1PNPDE20091216_214221_000000462085_00129_40764_8713.N1	DC map used
GOM_TRA_1PNPDE20091216_214458_000000402085_00129_40764_8714.N1	DC map used
GOM_TRA_1PNPDE20091216_214820_000000412085_00129_40764_8715.N1	DC map used
GOM_TRA_1PNPDE20091216_215134_000000372085_00129_40764_8716.N1	DC map used
GOM_TRA_1PNPDE20091216_215456_000000602085_00129_40764_8717.N1	DC map used

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



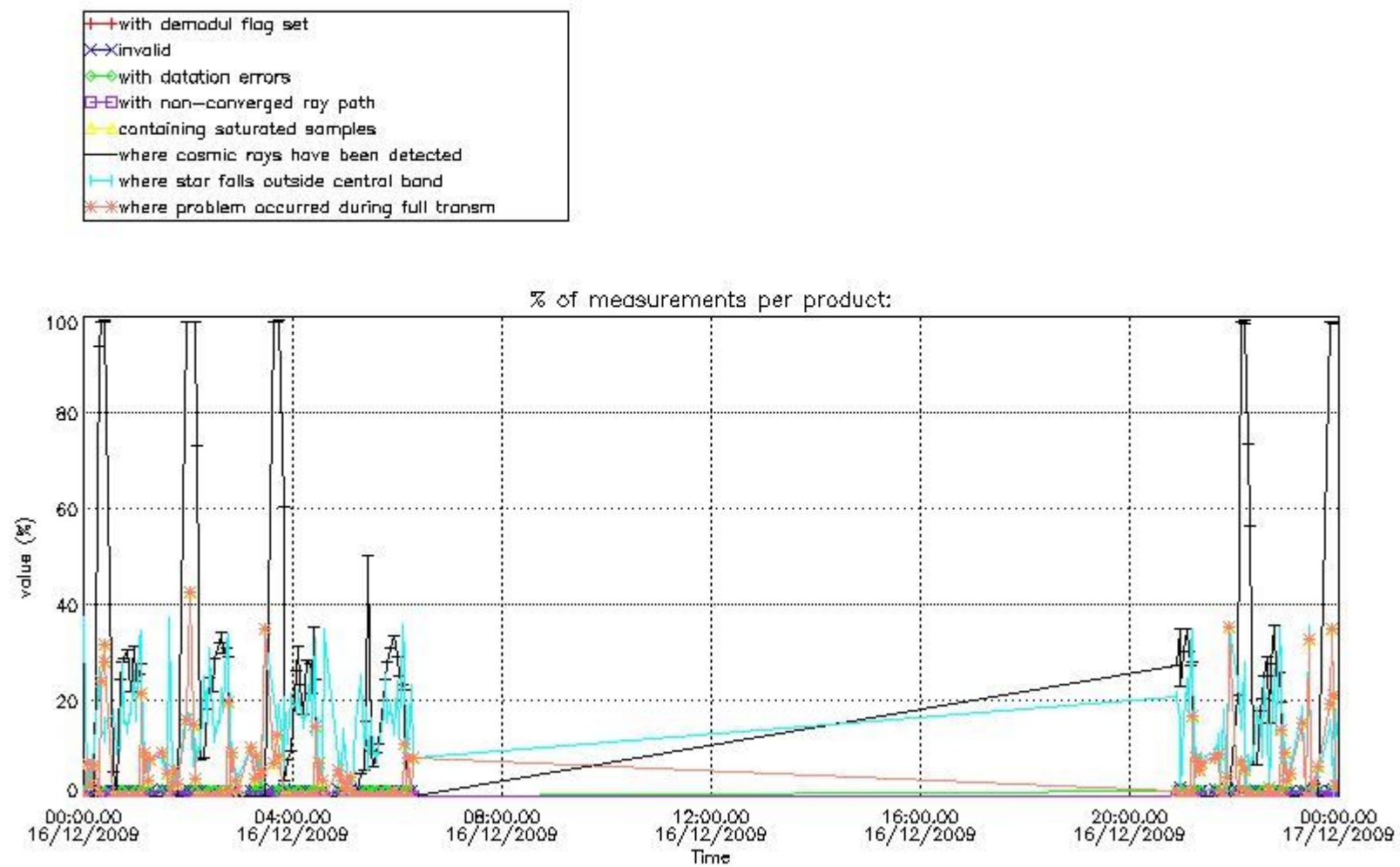
5. Demodulation flag and quality information monitoring

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:

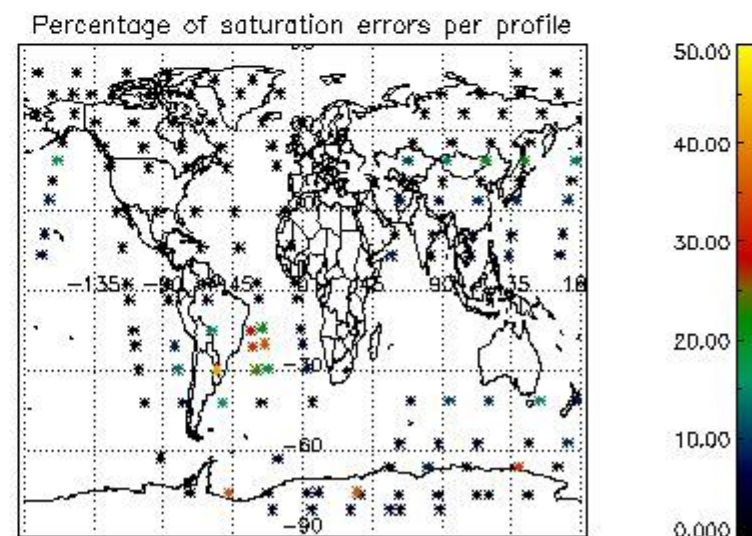
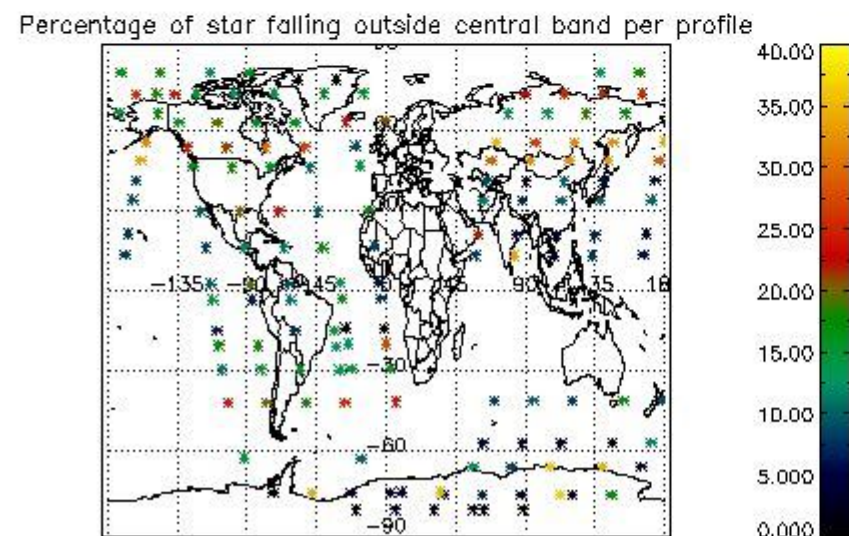
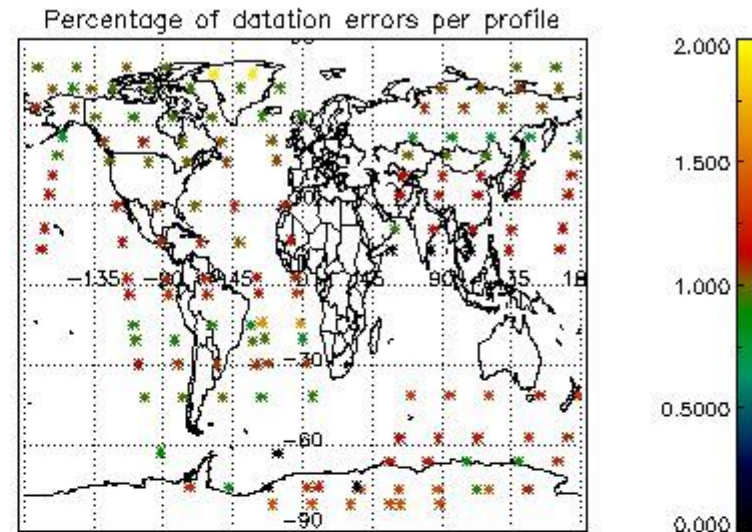
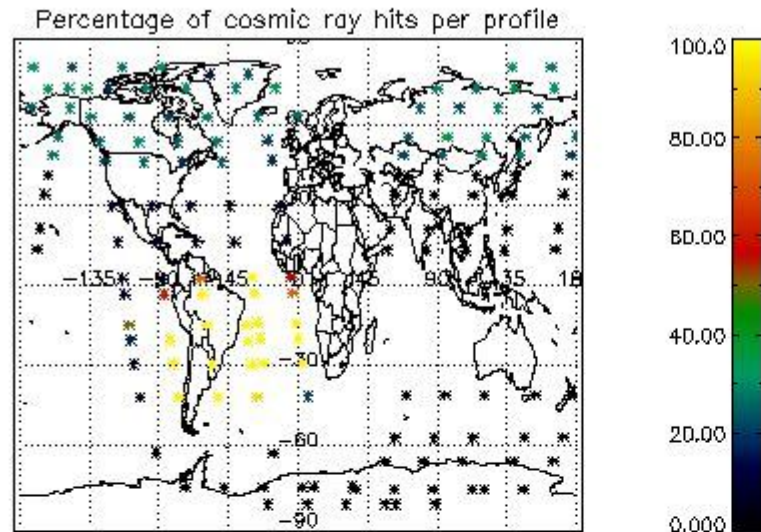
At least one measurement with demodulation flag set:	52.5974 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





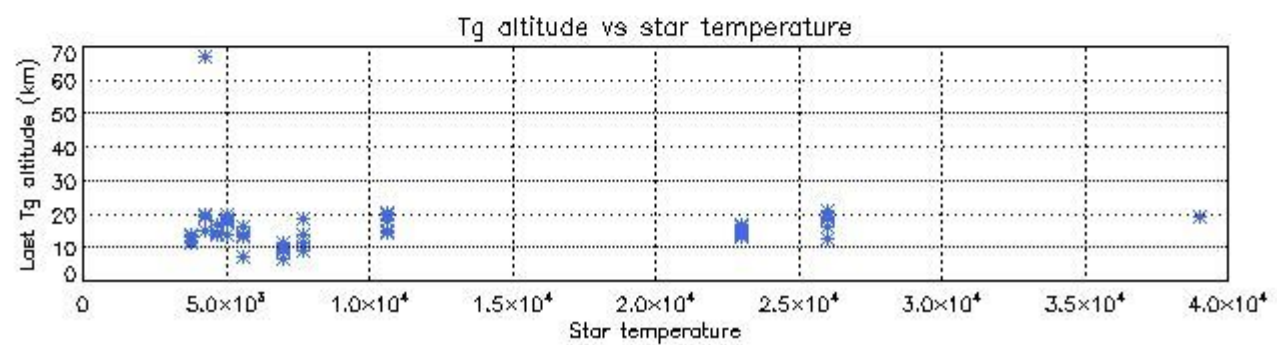
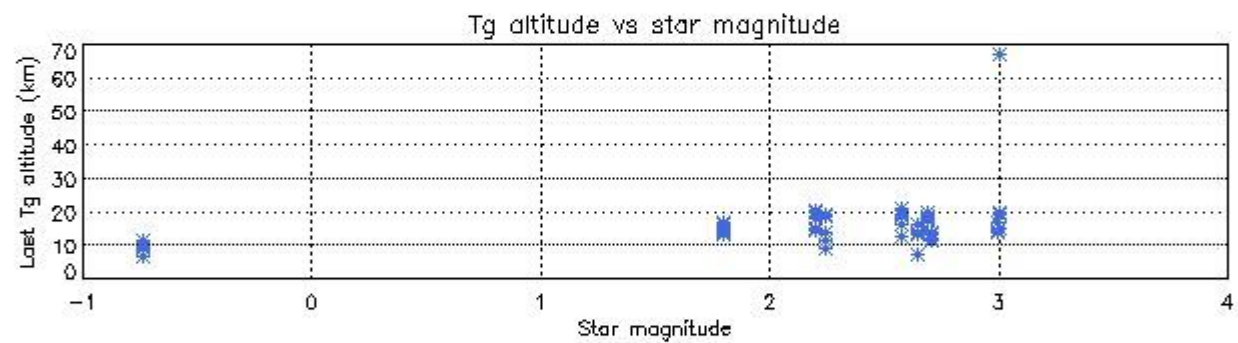
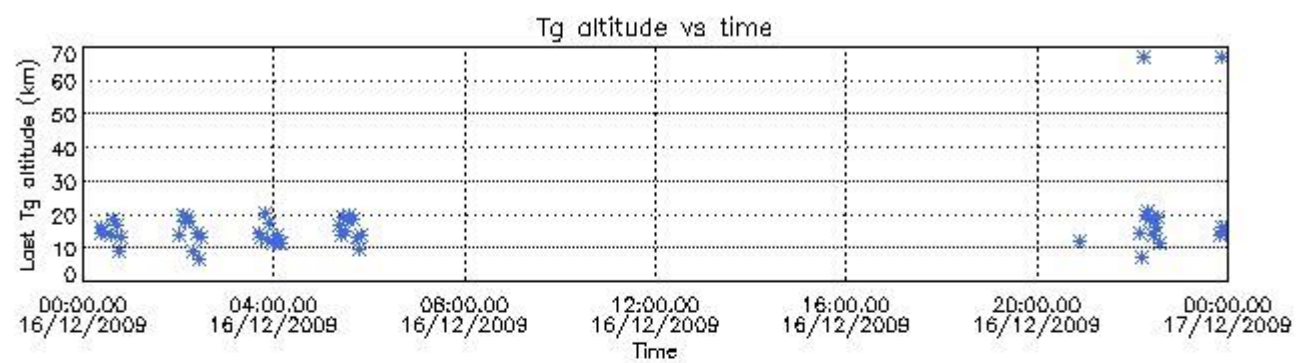
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	16.907	18.504	NaN
St. deviation:	10.655	5.5135	NaN
Maximum:	66.937	26.037	NaN
Minimum:	6.6134	4.0299	NaN
Number of data:	52.000	59.000	NaN

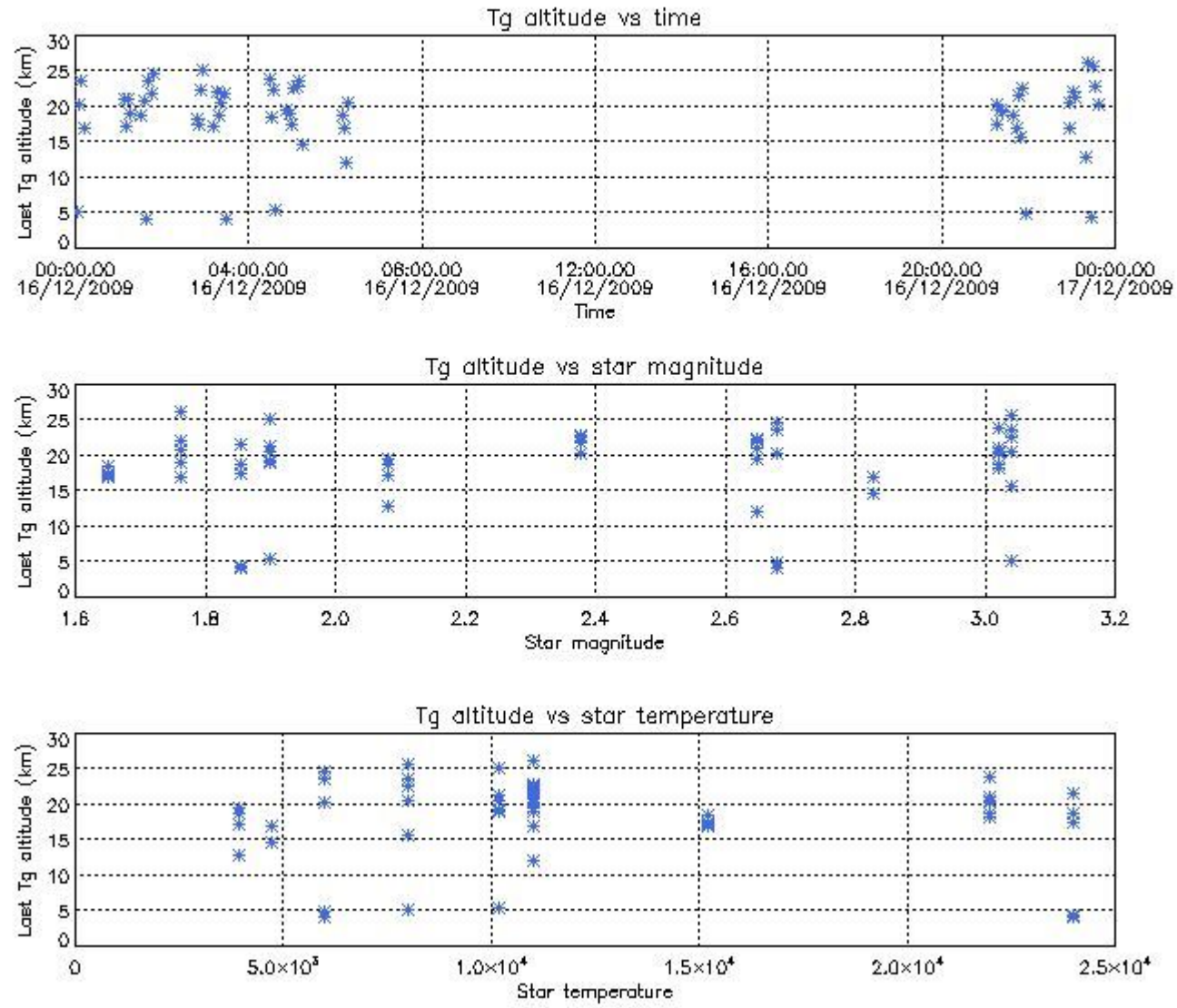
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



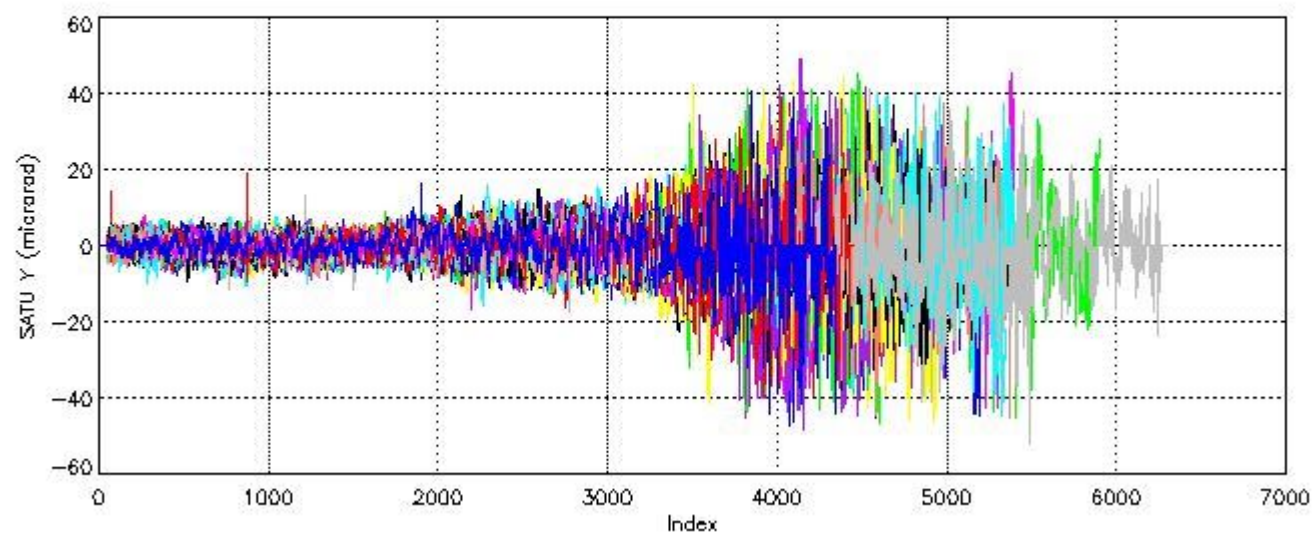
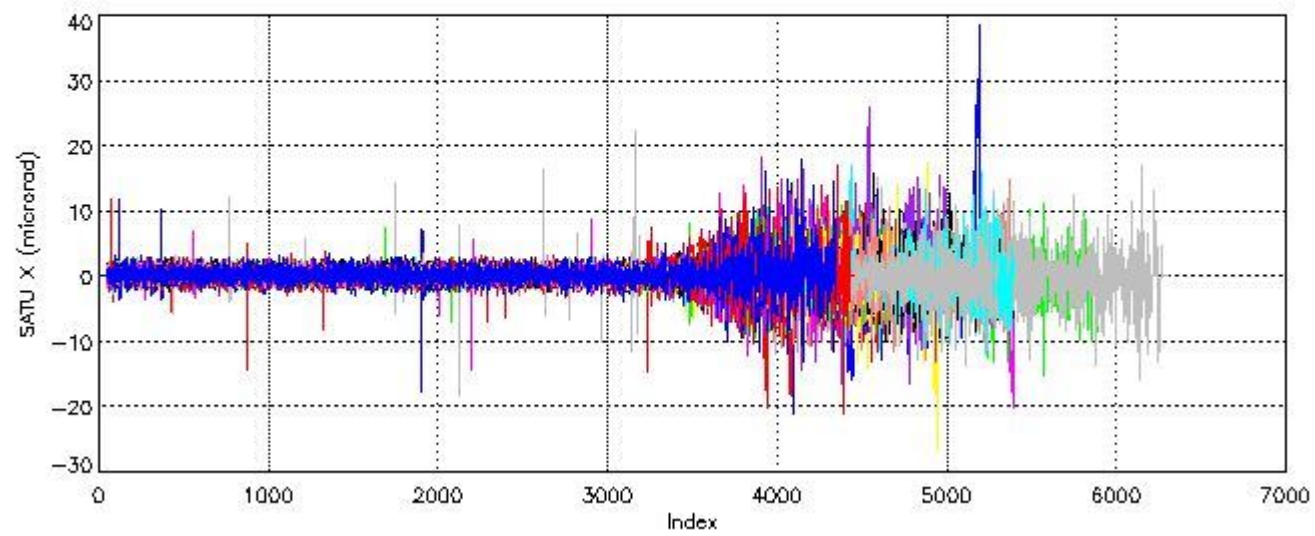
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.20937	-0.13443	0.16260	-0.23703
St. deviation:	0.58809	2.0503	0.87062	2.3831
Maximum:	12.100	18.900	6.5000	12.100
Minimum:	-14.300	-11.400	-5.7000	-11.200

Number of data:	53950.	53950.	57500.	57500.
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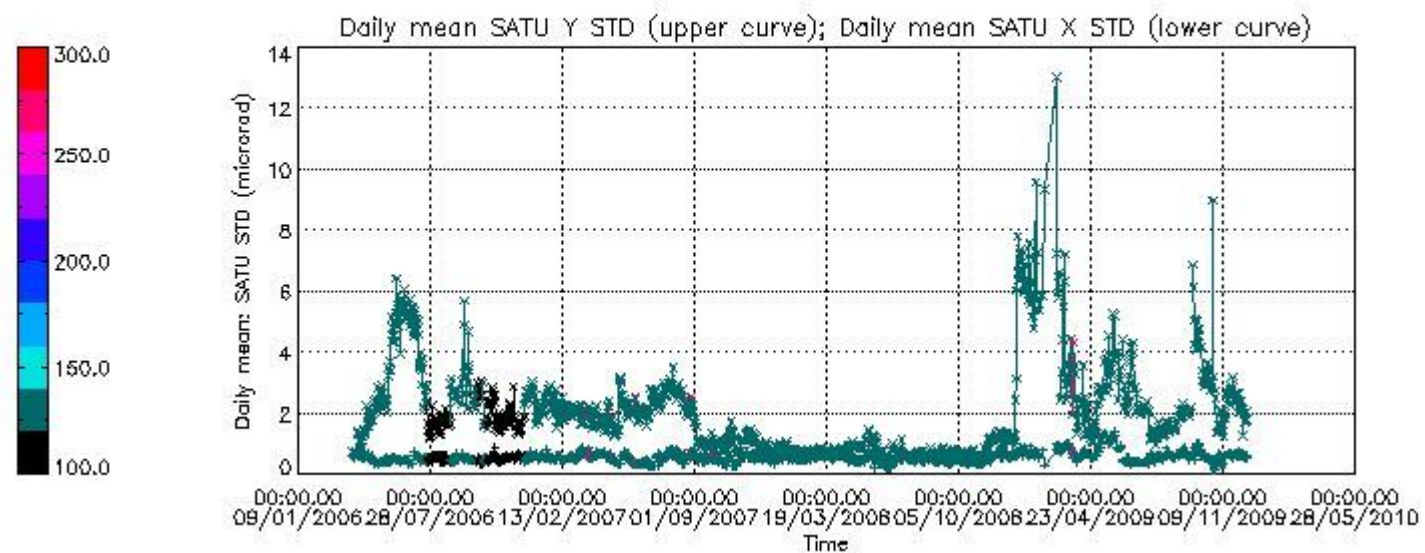
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

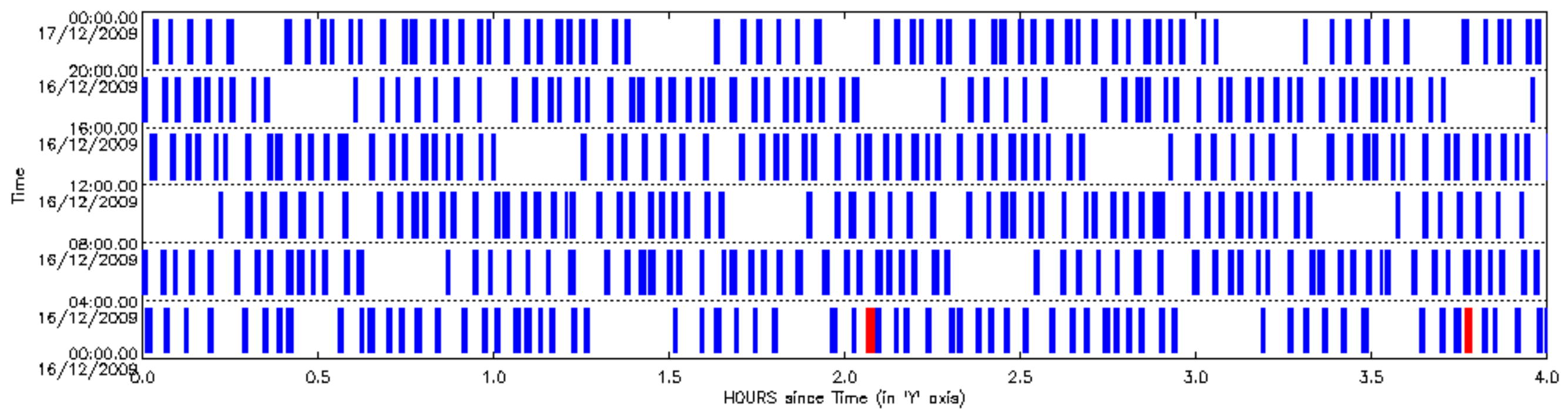
Lower curve: STD of SATU X axis



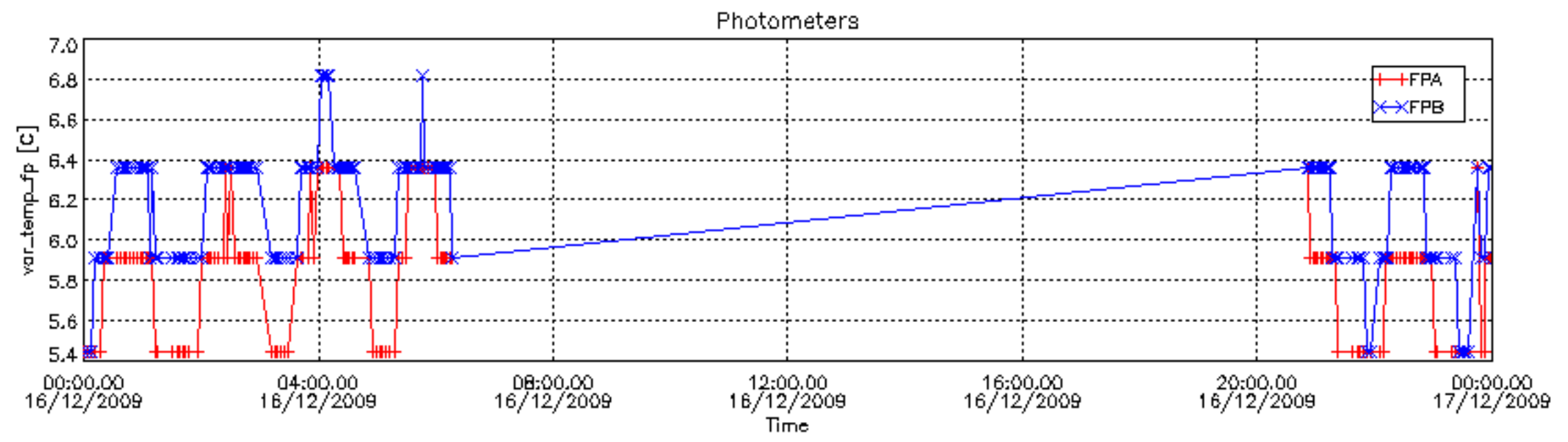
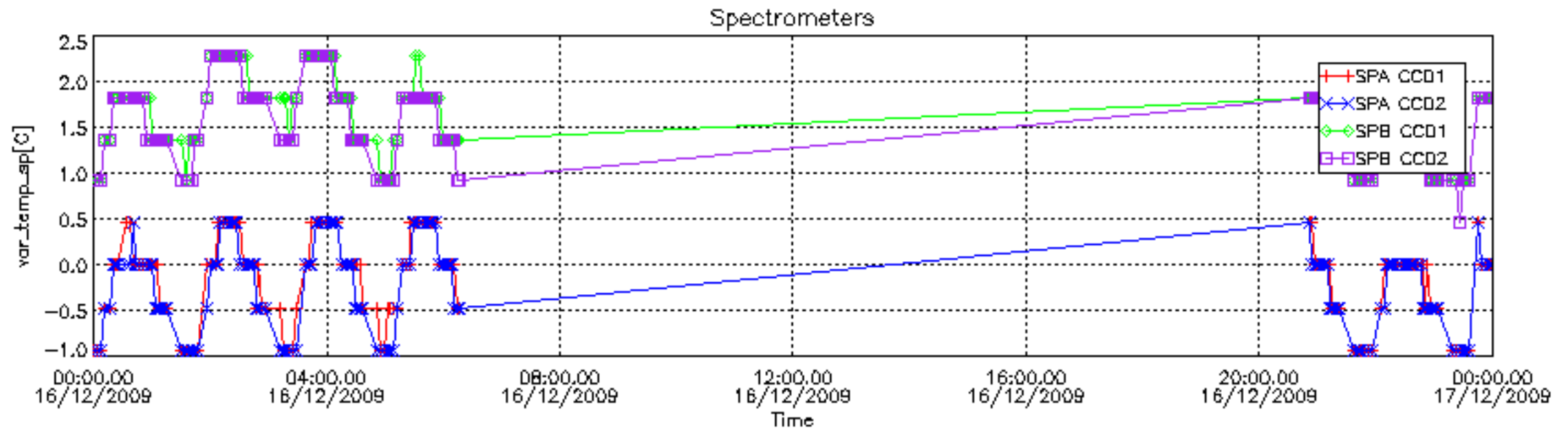
### 8. Auxiliary Data Files used for the production reported in section 2.4

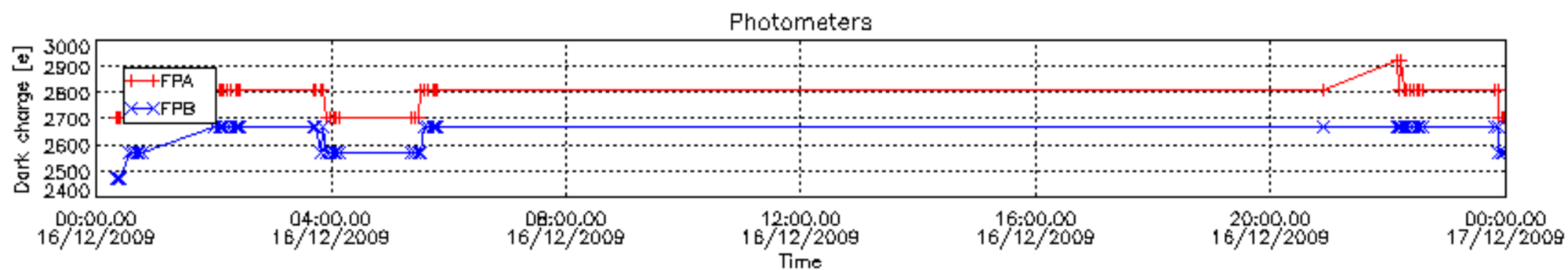
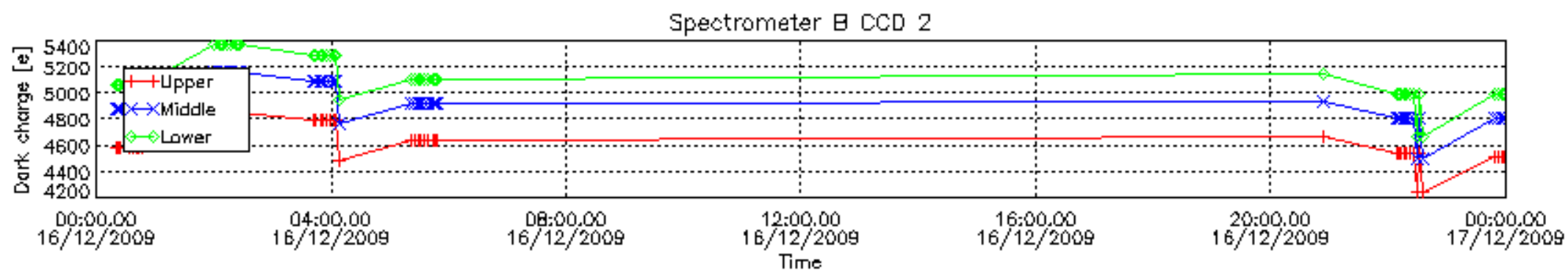
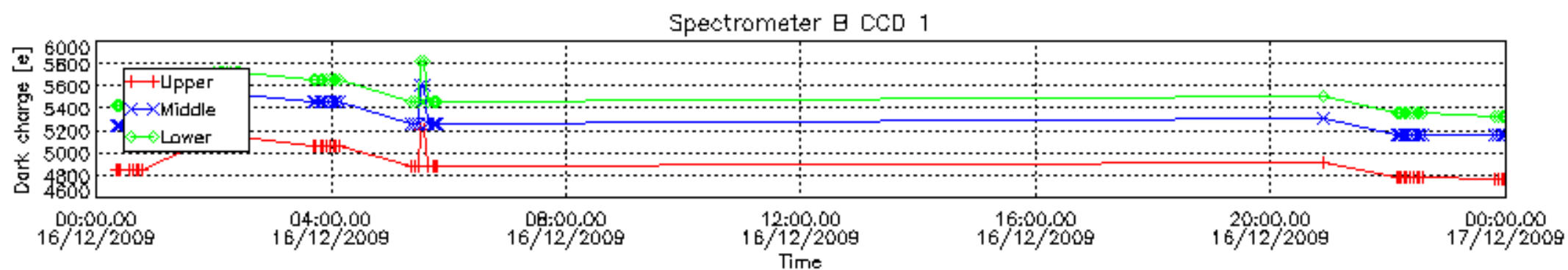
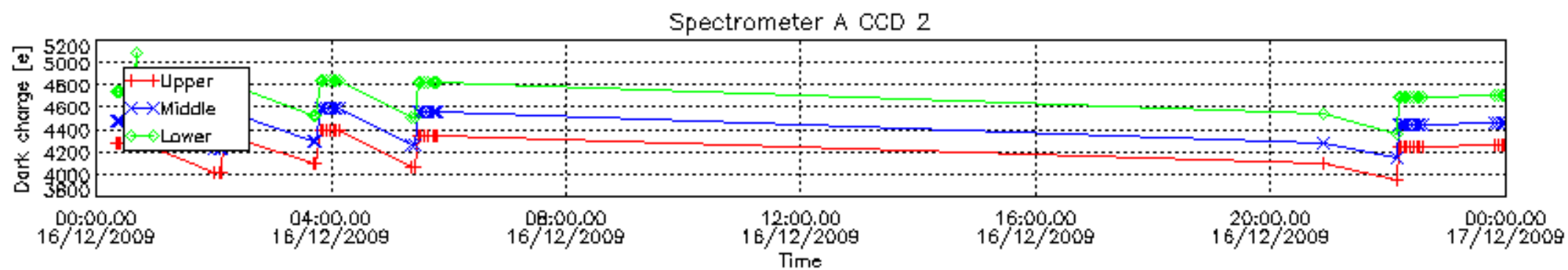
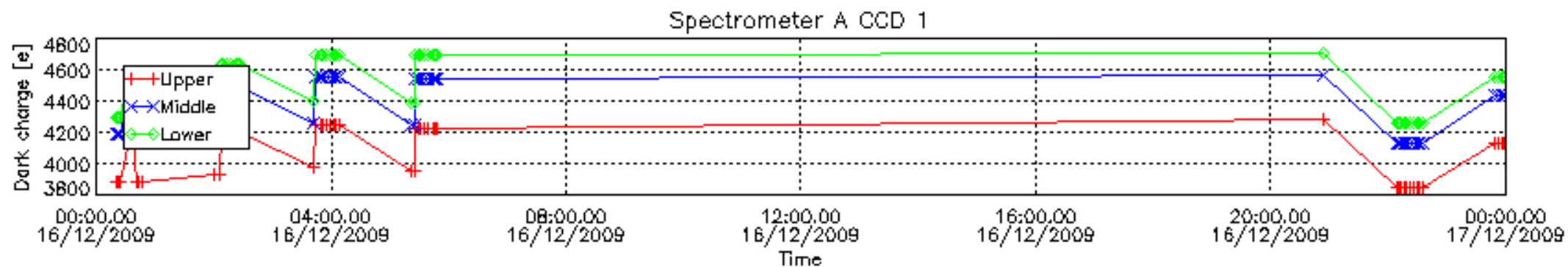
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

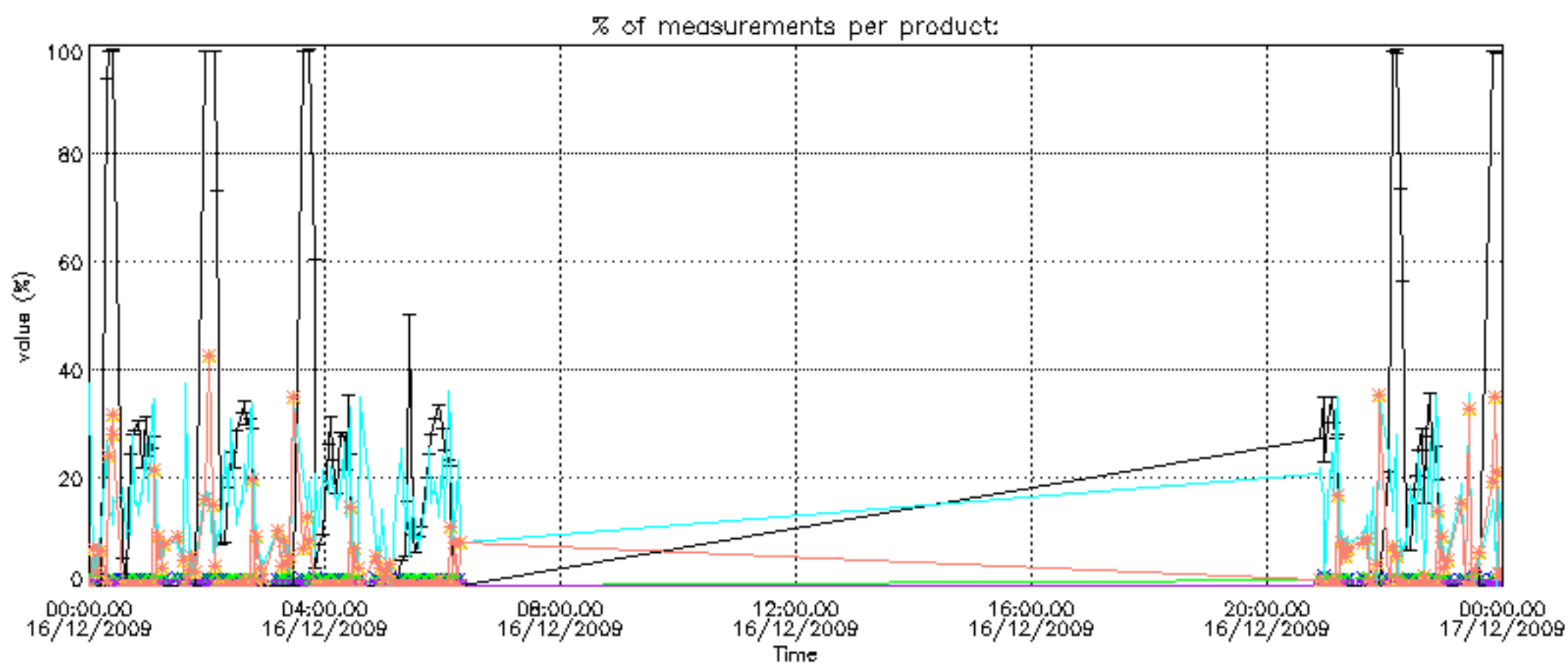
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CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091214_085046_20091212_000000_20500101_000000	1	16-DEC-2009 00:00:32
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	16-DEC-2009 00:00:32
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	16-DEC-2009 00:00:32
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	16-DEC-2009 00:00:32
ECMWF_FILE	AUX_ECF_AXNECM20091215_064111_20091215_210000_20091216_090000	1	16-DEC-2009 00:00:32
ECMWF_FILE	AUX_ECF_AXNECM20091216_110109_20091216_150000_20091217_030000	104	16-DEC-2009 20:51:15
ECMWF_FILE	AUX_ECF_AXNECM20091216_110110_20091216_210000_20091217_090000	123	16-DEC-2009 22:04:57
OPTIONAL_ECMWF_FILE	MISSING	1	16-DEC-2009 00:00:32
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ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091216_044533_000060572085_00119_40754_9370.N1	76	16-DEC-2009 04:51:46
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091216_204714_000041442085_00129_40764_9371.N1	104	16-DEC-2009 20:51:15
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091216_220137_000057382085_00129_40764_9372.N1	123	16-DEC-2009 22:04:57
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091216_234234_000057382085_00130_40765_9373.N1	151	16-DEC-2009 23:45:34





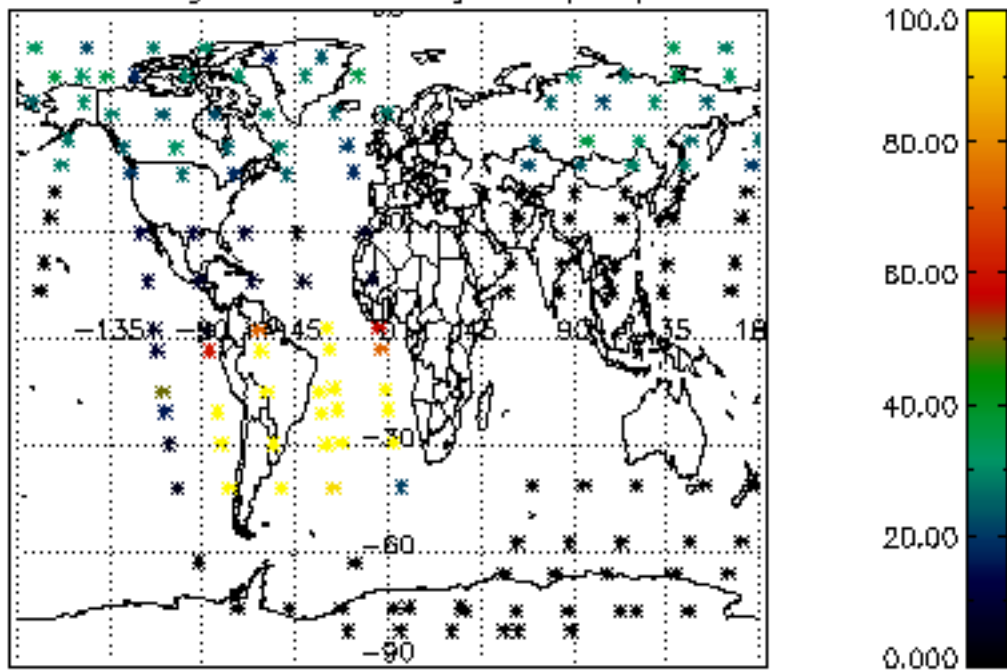




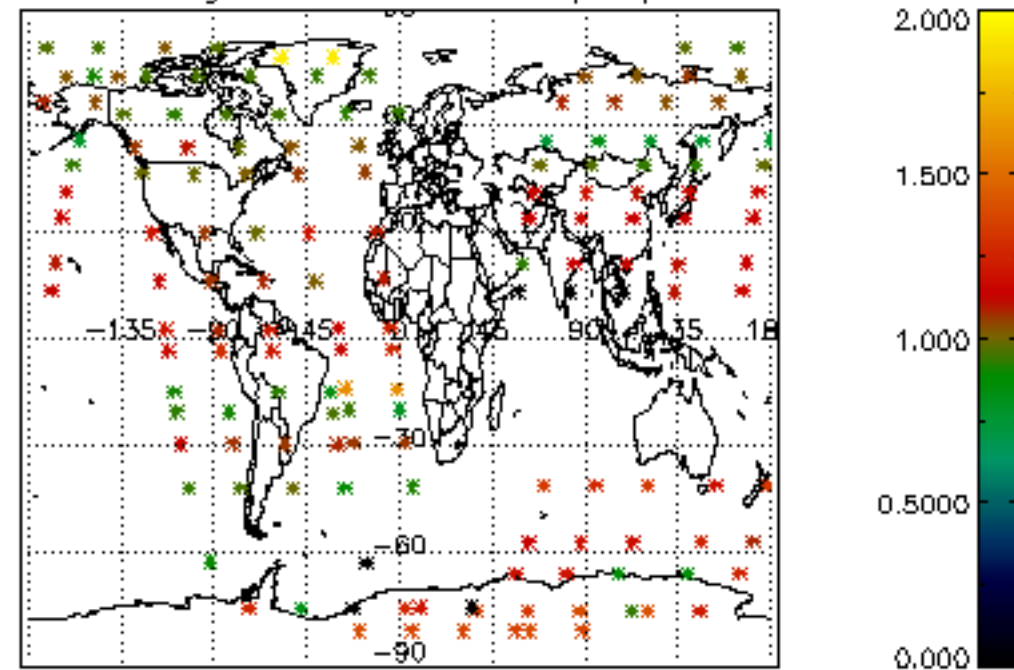




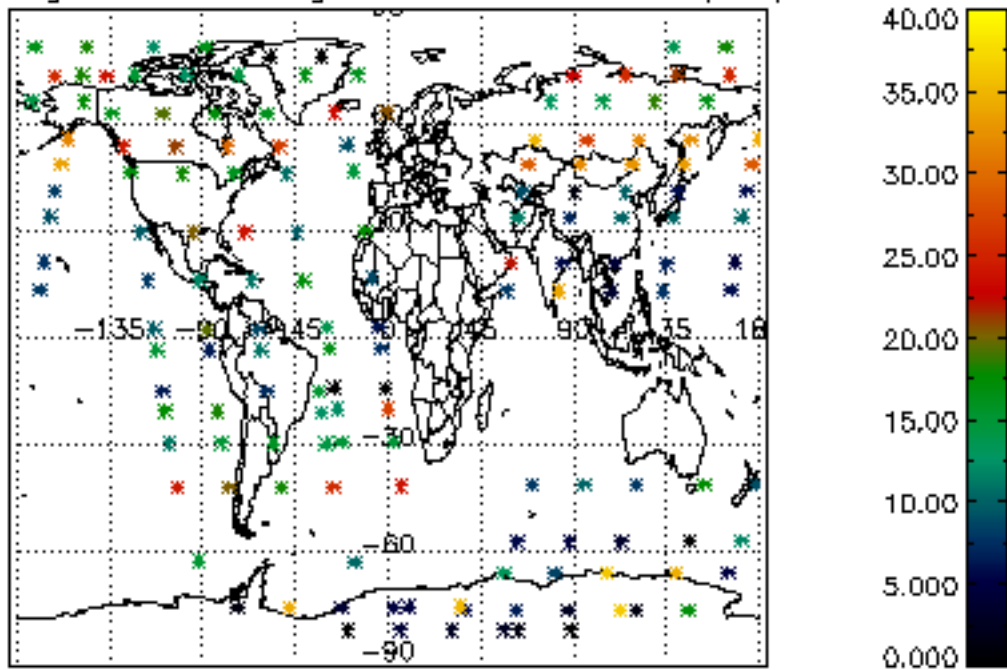
Percentage of cosmic ray hits per profile



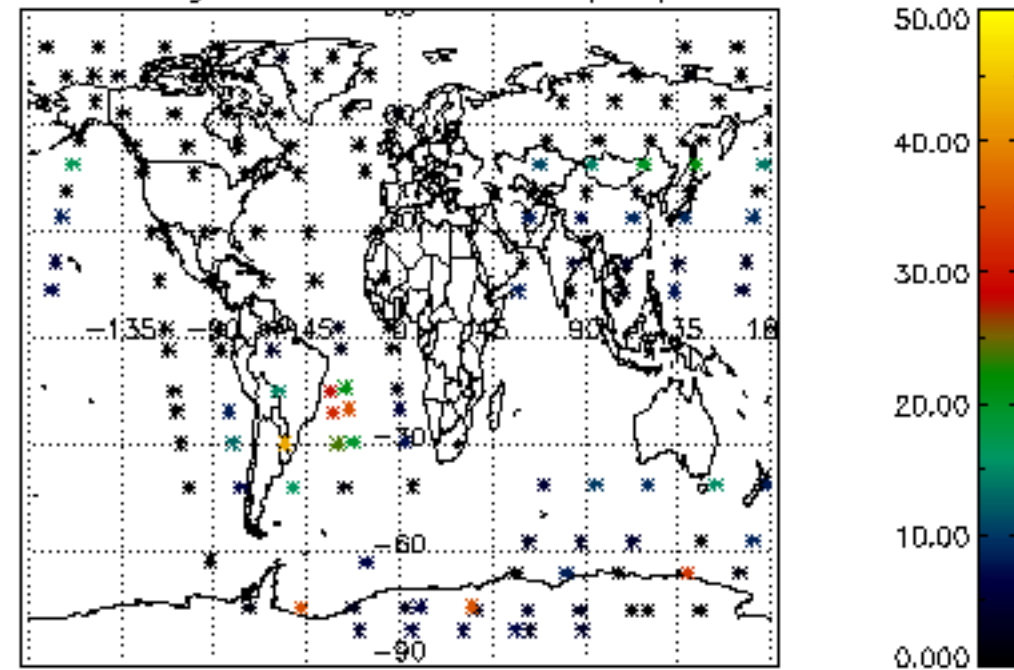
Percentage of datation errors per profile



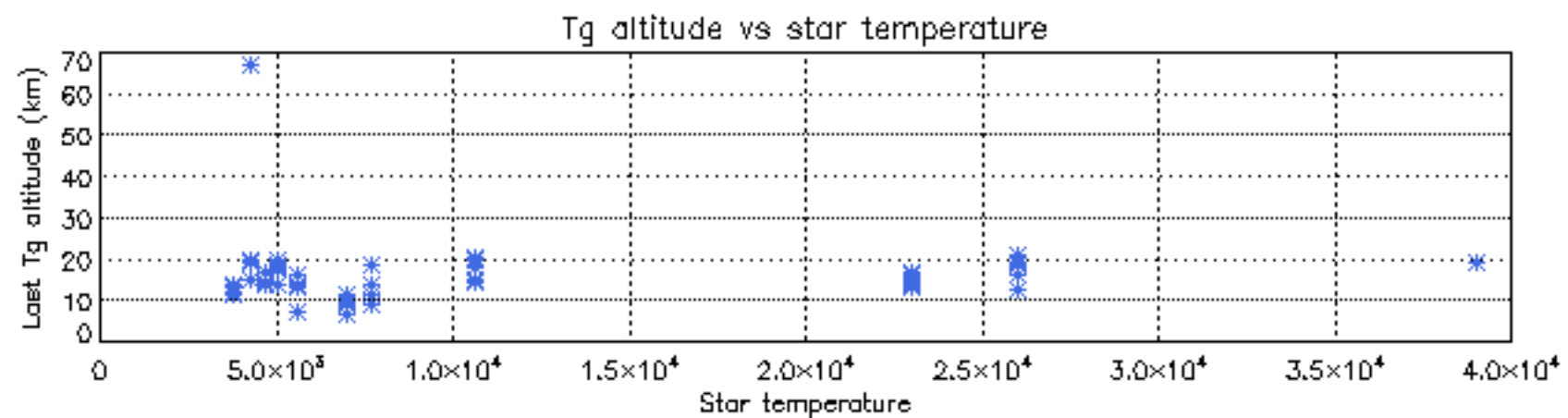
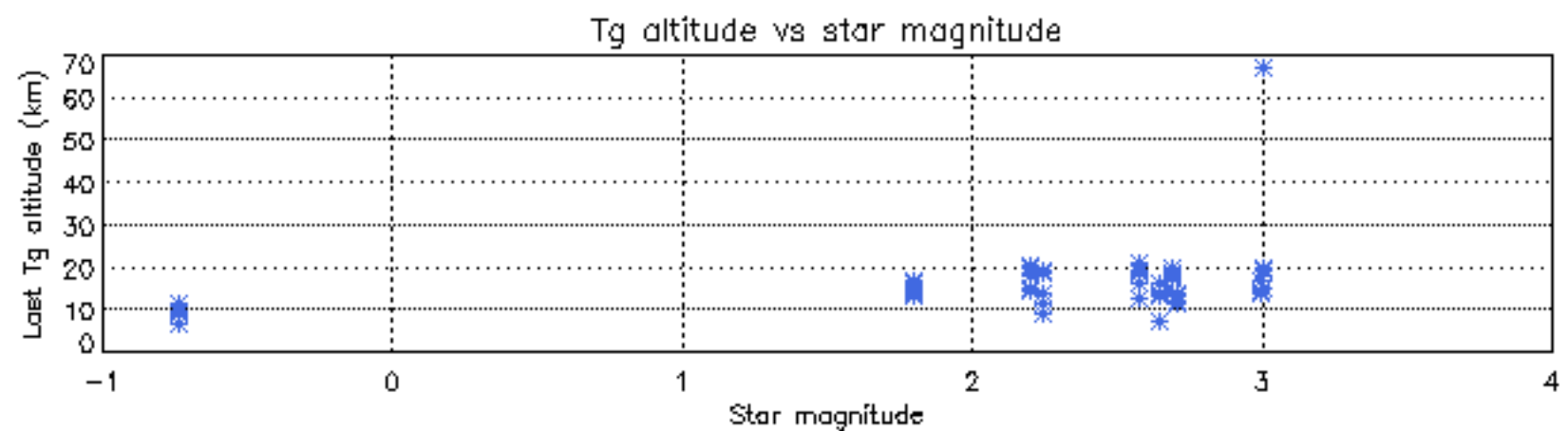
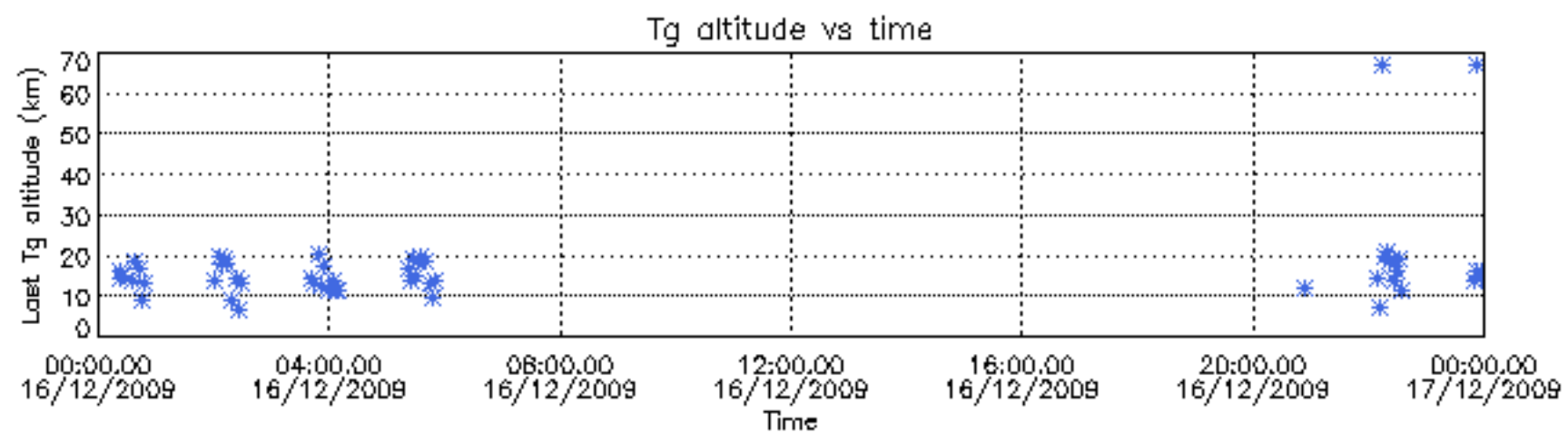
Percentage of star falling outside central band per profile



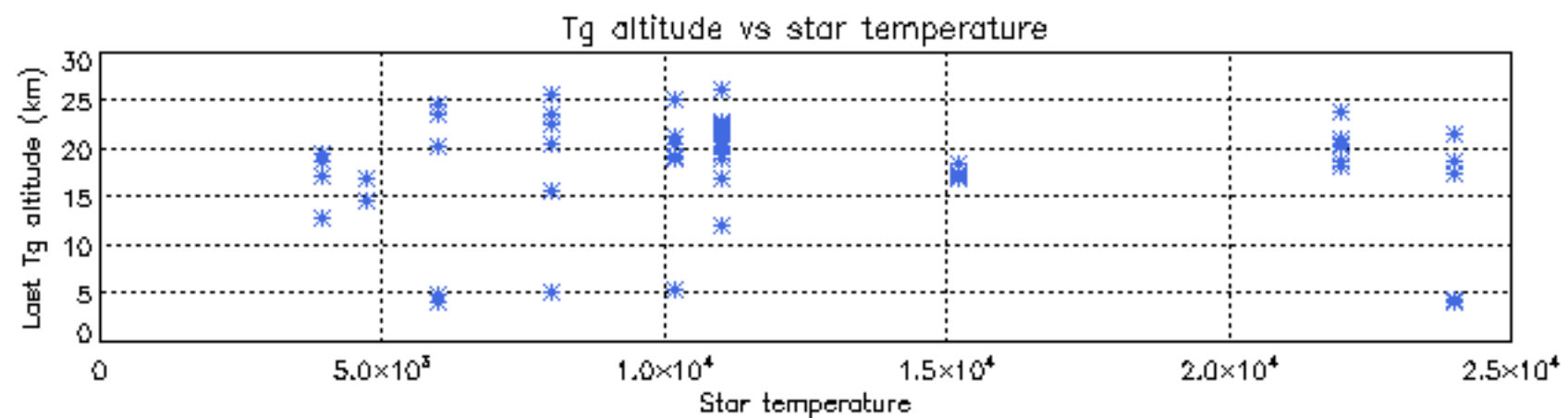
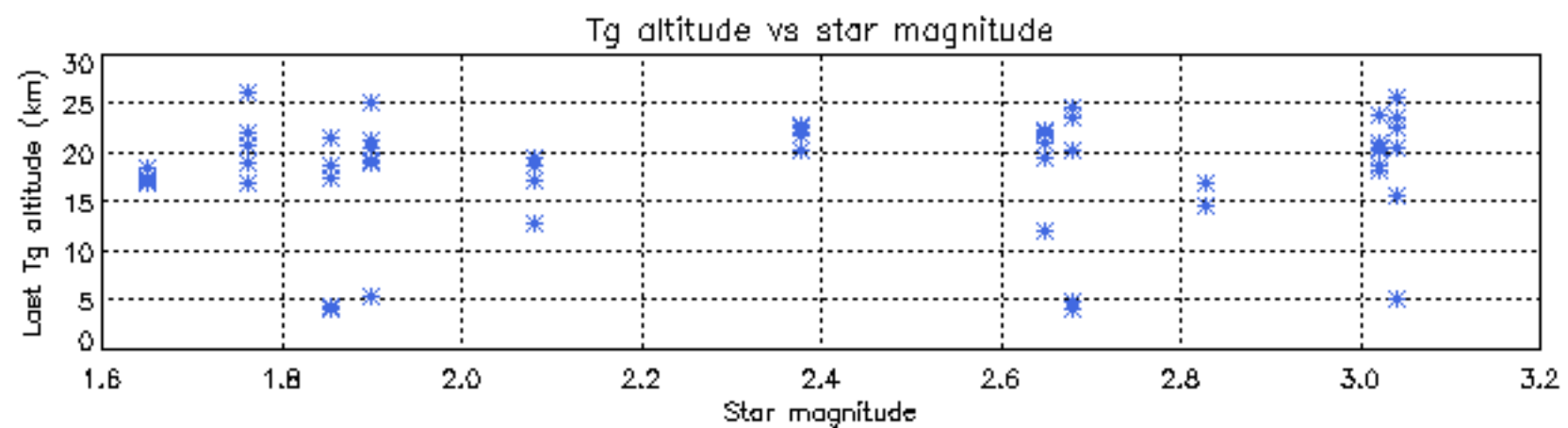
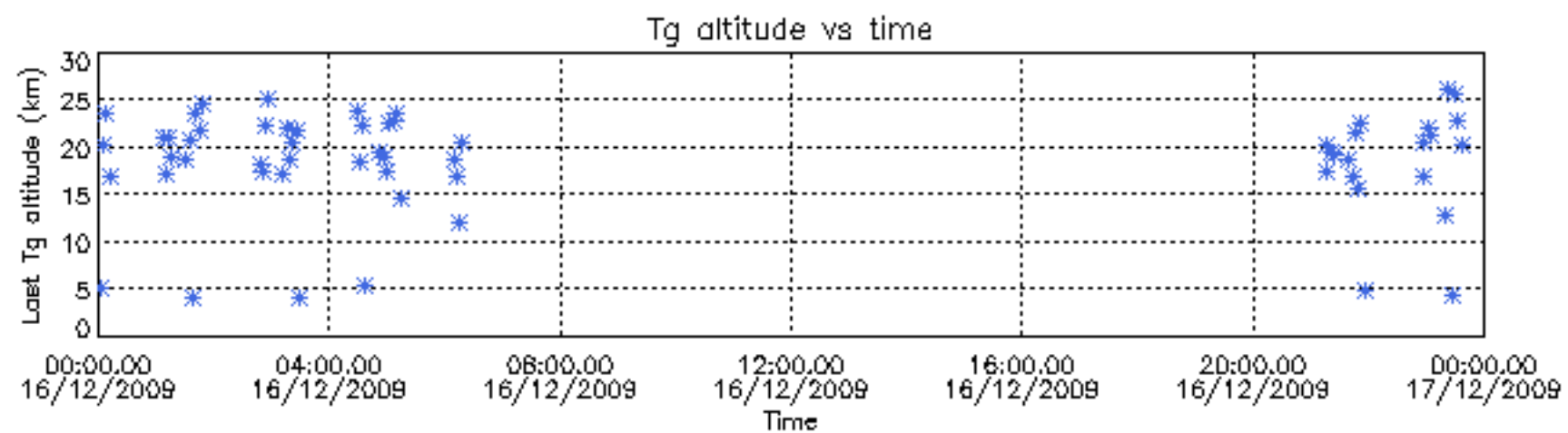
Percentage of saturation errors per profile



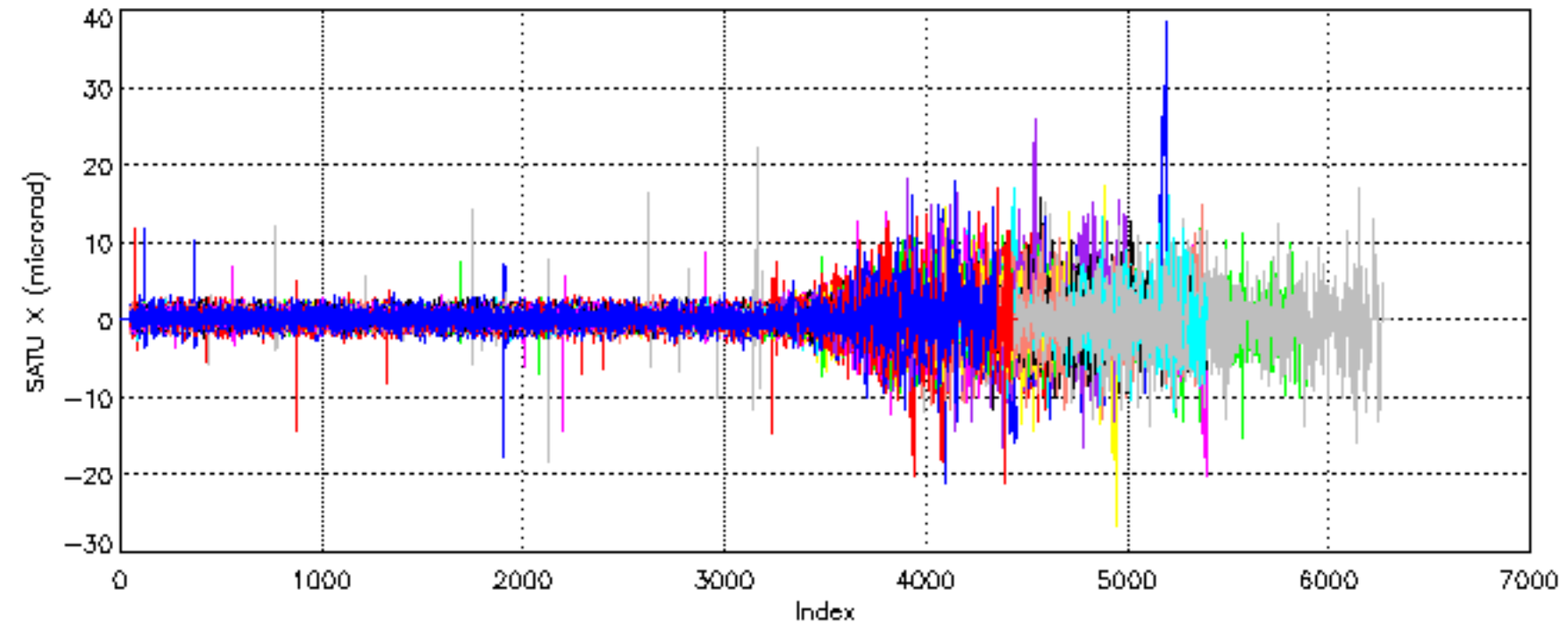
Tangent altitude at which the star is lost

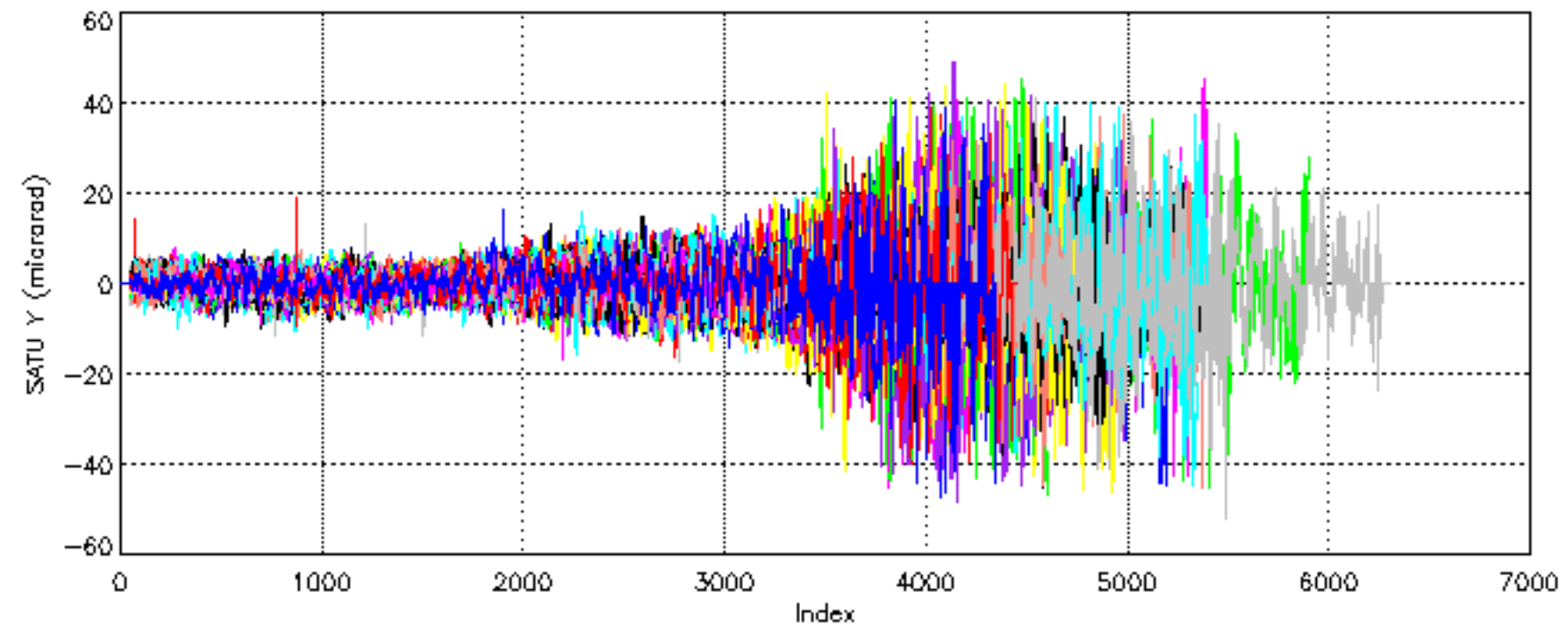


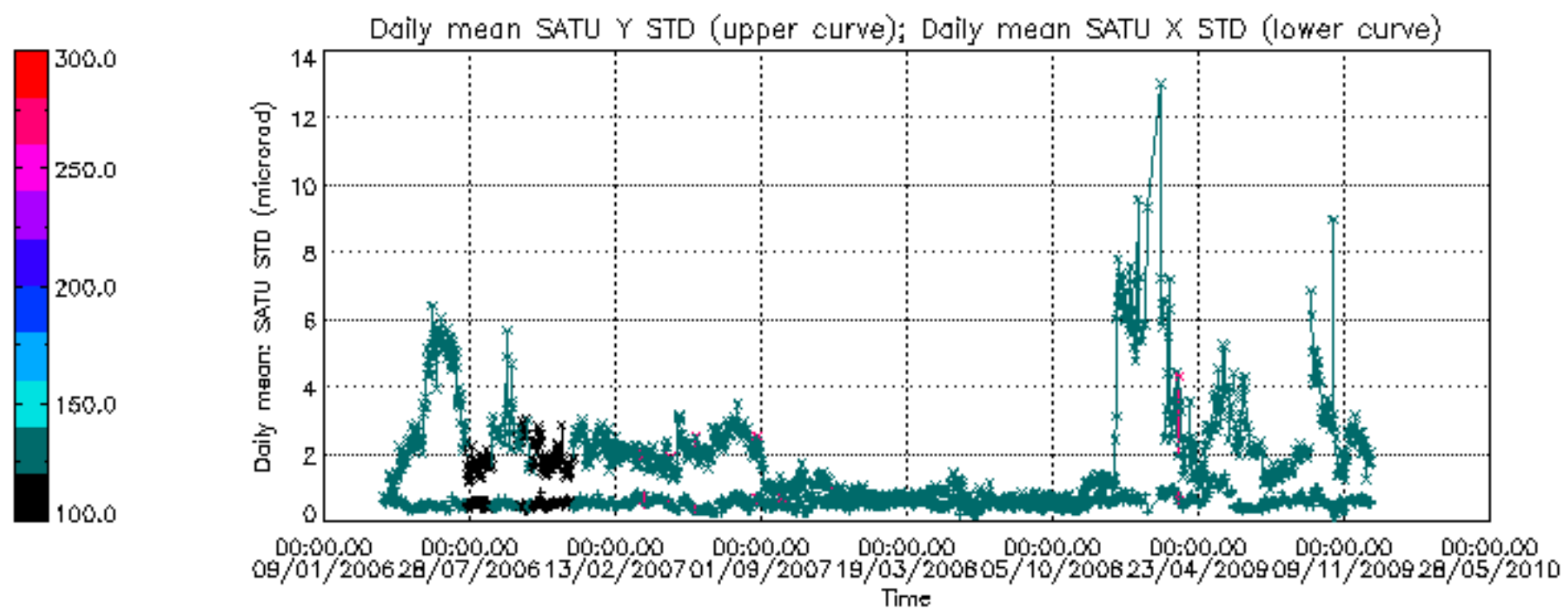
Tangent altitude at which the star is lost











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3; 98.0; 01-DEC-2009 21:49:30; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40550
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 19; 6154.8; 03-DEC-2009 17:25:25; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40575  
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 10; 4140.3; 11-DEC-2009 07:37:06; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;40684  
 11; 4331.3; 11-DEC-2009 07:40:17; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40684  
 12; 4710.4; 11-DEC-2009 07:46:36; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40684  
 13; 4927.7; 11-DEC-2009 07:50:13; Bright; 67.0; 138; 47Eps Vir ; 2.83; 4700;occ; 134; 0;40684  
 14; 5281.8; 11-DEC-2009 07:56:08; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40684  
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 17; 5699.1; 11-DEC-2009 08:03:05; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;40684  
 18; 5936.8; 11-DEC-2009 08:07:03; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;40684  
 19; 6029.7; 11-DEC-2009 08:08:36; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40684  
 20; 6246.4; 11-DEC-2009 08:12:12; Dark ; 54.5; 113; Mu Vel ; 2.69; 5000;occ; 109; 0;40684  
 21; 6490.9; 11-DEC-2009 08:16:17; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40684  
 22; 6563.6; 11-DEC-2009 08:17:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40684  
 23; 6763.3; 11-DEC-2009 08:20:49; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;40684  
 24; 6913.2; 11-DEC-2009 08:23:19; Dark ; 46.5; 2; Alp Car ; -0.74; 7000;occ; 93; 0;40684  
 25; 7064.0; 11-DEC-2009 08:25:50; Dark ; 55.0; 117; Pi Pup ; 2.71; 3800;occ; 110; 0;40684  
 26; 7269.3; 11-DEC-2009 08:29:15; Dark ; 55.0; 23; 21Eps CMa ; 1.50; 26000;occ; 110; 0;40684  
 27; 7563.5; 11-DEC-2009 08:34:09; Dark ; 29.0; 47; 2Bet CMa ; 1.98; 28000;occ; 58; 0;40684  
 28; 7784.0; 11-DEC-2009 08:37:50; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40684

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

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

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3; 1893.6; 11-DEC-2009 12:01:27; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;40687  
4; 2040.0; 11-DEC-2009 12:03:54; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40687  
5; 2196.8; 11-DEC-2009 12:06:30; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40687  
6; 2355.6; 11-DEC-2009 12:09:09; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40687  
7; 2476.9; 11-DEC-2009 12:11:10; Bright; 42.0; 28; 12Bet Tau ; 1.65; 15200;occ; 84; 0;40687  
8; 2591.1; 11-DEC-2009 12:13:05; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40687  
9; 2766.6; 11-DEC-2009 12:16:00; Bright; 42.5; 6; 13Alp Aur ; 0.08; 3400;occ; 85; 0;40687  
10; 3760.8; 11-DEC-2009 12:32:34; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40687  
11; 3995.2; 11-DEC-2009 12:36:29; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;40687  
12; 4140.1; 11-DEC-2009 12:38:54; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;40687  
13; 4331.7; 11-DEC-2009 12:42:05; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;40687  
14; 4711.5; 11-DEC-2009 12:48:25; Bright; 57.0; 111; 8Eta Boo ; 2.68; 6000;occ; 114; 0;40687  
15; 4929.1; 11-DEC-2009 12:52:03; Bright; 68.0; 138; 47Eps Vir ; 2.83; 4700;occ; 136; 0;40687  
16; 5283.6; 11-DEC-2009 12:57:57; Dark ; 49.5; 15; 67Alp Vir ; 0.98; 28000;occ; 99; 0;40687  
17; 5492.2; 11-DEC-2009 13:01:26; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40687  
18; 5606.4; 11-DEC-2009 13:03:20; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40687  
19; 5702.6; 11-DEC-2009 13:04:56; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;40687  
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21; 6031.6; 11-DEC-2009 13:10:25; Dark ; 39.5; 99; Del Cen ; 2.58; 26000;occ; 79; 0;40687  
22; 6249.0; 11-DEC-2009 13:14:03; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40687  
23; 6492.6; 11-DEC-2009 13:18:06; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40687  
24; 6565.9; 11-DEC-2009 13:19:19; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40687  
25; 6765.8; 11-DEC-2009 13:22:39; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;40687  
26; 6914.5; 11-DEC-2009 13:25:08; Dark ; 50.0; 2; Alp Car ; -0.74; 7000;occ; 100; 0;40687  
27; 7066.0; 11-DEC-2009 13:27:40; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40687  
28; 7270.8; 11-DEC-2009 13:31:04; Dark ; 53.0; 23; 21Eps CMa ; 1.50; 26000;occ; 106; 0;40687  
29; 7564.3; 11-DEC-2009 13:35:58; Dark ; 40.5; 47; 2Bet CMa ; 1.98; 28000;occ; 81; 0;40687

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



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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
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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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27; 7066.6; 11-DEC-2009 15:08:16; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40688
28; 7271.4; 11-DEC-2009 15:11:41; Dark ; 57.5; 23; 21Eps CMa ; 1.50; 26000;occ; 115; 0;40688
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12; 4140.4; 11-DEC-2009 16:00:06; Bright; 56.0; 39; 85Eta UMa ; 1.85; 24000;occ; 112; 0;40689
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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
24; 6567.6; 11-DEC-2009 16:40:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40689
25; 6767.4; 11-DEC-2009 16:43:53; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40689
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 23; 6251.8; 11-DEC-2009 18:15:53; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40690  
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 27; 6915.9; 11-DEC-2009 18:26:57; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;40690  
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 18; 5233.2; 11-DEC-2009 19:39:31; Dark ; 55.5; 121; 29Gam Vir ; 2.74; 7200;occ; 111; 0;40691  
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 28; 6916.2; 11-DEC-2009 20:07:34; Dark ; 53.5; 2; Alp Car ; -0.74; 7000;occ; 107; 0;40691

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 13; 1529.2; 12-DEC-2009 01:20:10; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;40695  
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 15; 1892.4; 12-DEC-2009 01:26:13; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;40695  
 16; 2038.0; 12-DEC-2009 01:28:39; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40695  
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 19; 2451.0; 12-DEC-2009 01:35:32; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;40695  
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 21; 2763.2; 12-DEC-2009 01:40:44; Bright; 44.0; 6; 13Alp Aur ; 0.08; 3400;occ; 88; 0;40695  
 22; 3757.3; 12-DEC-2009 01:57:18; Bright; 49.0; 36; 50Alp UMa ; 1.80; 6300;occ; 98; 0;40695  
 23; 3993.8; 12-DEC-2009 02:01:15; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40695  
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7; 461.8; 12-DEC-2009 02:42:59; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40696  
8; 536.3; 12-DEC-2009 02:44:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40696  
9; 735.8; 12-DEC-2009 02:47:33; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;40696  
10; 881.8; 12-DEC-2009 02:49:59; Dark ; 45.0; 2; Alp Car ; -0.74; 7000;occ; 90; 0;40696  
11; 1034.9; 12-DEC-2009 02:52:32; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40696  
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13; 1529.5; 12-DEC-2009 03:00:46; Dark ; 53.5; 47; 2Bet CMA ; 1.98; 28000;occ; 107; 0;40696  
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15; 1892.3; 12-DEC-2009 03:06:49; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40696  
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22; 1891.8; 12-DEC-2009 06:28:01; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40698
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 22; 6042.2; 12-DEC-2009 16:00:11; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40703  
 23; 6263.1; 12-DEC-2009 16:03:52; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40703  
 24; 6503.2; 12-DEC-2009 16:07:52; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40703  
 25; 6578.5; 12-DEC-2009 16:09:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40703  
 26; 6777.9; 12-DEC-2009 16:12:26; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40703  
 27; 6921.1; 12-DEC-2009 16:14:50; Dark ; 46.0; 2; Alp Car ; -0.74; 7000;occ; 92; 0;40703  
 28; 7076.1; 12-DEC-2009 16:17:25; Dark ; 53.5; 117; Pi Pup ; 2.71; 3800;occ; 107; 0;40703  
 29; 7278.4; 12-DEC-2009 16:20:47; Dark ; 41.0; 23; 21Eps CMA ; 1.50; 26000;occ; 82; 0;40703

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1; 1242.4; 12-DEC-2009 16:20:47; Dark ; 57.0; 23; 21Eps CMA ; 1.50; 26000;occ; 114; 0;40704  
 2; 1530.5; 12-DEC-2009 16:25:35; Dark ; 56.0; 47; 2Bet CMA ; 1.98; 28000;occ; 112; 0;40704  
 3; 1748.3; 12-DEC-2009 16:29:13; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40704  
 4; 1891.3; 12-DEC-2009 16:31:36; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;40704  
 5; 2036.1; 12-DEC-2009 16:34:01; Dark ; 50.0; 27; 24Gam Ori ; 1.64; 26000;occ; 100; 0;40704  
 6; 2194.9; 12-DEC-2009 16:36:39; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40704  
 7; 2346.7; 12-DEC-2009 16:39:11; Bright; 46.5; 176; 23Zet Tau ; 3.02; 22000;occ; 93; 0;40704  
 8; 2468.7; 12-DEC-2009 16:41:13; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40704  
 9; 2590.0; 12-DEC-2009 16:43:15; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40704  
 10; 2696.9; 12-DEC-2009 16:45:01; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;40704  
 11; 2824.1; 12-DEC-2009 16:47:09; Bright; 45.0; 42; 34Bet Aur ; 1.90; 10200;occ; 90; 0;40704  
 12; 3753.1; 12-DEC-2009 17:02:38; Bright; 64.0; 36; 50Alp UMa ; 1.80; 6300;occ; 128; 0;40704  
 13; 3992.2; 12-DEC-2009 17:06:37; Bright; 47.0; 32; 77Eps UMa ; 1.76; 11000;occ; 94; 0;40704  
 14; 4140.1; 12-DEC-2009 17:09:05; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40704  
 15; 4333.6; 12-DEC-2009 17:12:18; Bright; 33.5; 180; 27Gam Boo ; 3.04; 8000;occ; 67; 0;40704  
 16; 4716.6; 12-DEC-2009 17:18:41; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40704  
 17; 4939.2; 12-DEC-2009 17:22:24; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;40704  
 18; 5294.4; 12-DEC-2009 17:28:19; Dark ; 50.0; 15; 67Alp Vir ; 0.98; 28000;occ; 100; 0;40704  
 19; 5503.5; 12-DEC-2009 17:31:48; Dark ; 48.0; 169; 46Gam Hya ; 2.99; 4700;occ; 96; 0;40704



20; 5626.7; 12-DEC-2009 17:33:51; Dark ; 53.0; 100; 4Gam Crv ; 2.58; 13100;occ; 106; 0;40704  
 21; 5722.4; 12-DEC-2009 17:35:27; Dark ; 58.0; 171; 2Eps Crv ; 3.00; 4250;occ; 116; 0;40704  
 22; 5948.4; 12-DEC-2009 17:39:13; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40704  
 23; 6042.9; 12-DEC-2009 17:40:47; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40704  
 24; 6263.9; 12-DEC-2009 17:44:28; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40704  
 25; 6503.7; 12-DEC-2009 17:48:28; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;40704  
 26; 6579.3; 12-DEC-2009 17:49:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40704  
 27; 6778.7; 12-DEC-2009 17:53:03; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40704  
 28; 6921.5; 12-DEC-2009 17:55:26; Dark ; 55.5; 2; Alp Car ; -0.74; 7000;occ; 111; 0;40704  
 29; 7076.7; 12-DEC-2009 17:58:01; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;40704

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 2; 1530.6; 12-DEC-2009 18:06:11; Dark ; 56.0; 47; 2Bet CMa ; 1.98; 28000;occ; 112; 0;40705  
 3; 1748.4; 12-DEC-2009 18:09:49; Dark ; 49.5; 7; 19Bet Ori ; 0.10; 14000;occ; 99; 0;40705  
 4; 1891.0; 12-DEC-2009 18:12:12; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40705  
 5; 2035.7; 12-DEC-2009 18:14:36; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40705  
 6; 2194.7; 12-DEC-2009 18:17:15; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40705  
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 8; 2468.3; 12-DEC-2009 18:21:49; Bright; 46.0; 28; 12Bet Tau ; 1.65; 15200;occ; 92; 0;40705  
 9; 2589.8; 12-DEC-2009 18:23:50; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40705  
 10; 2696.0; 12-DEC-2009 18:25:37; Bright; 47.0; 107; 37The Aur ; 2.65; 11000;occ; 94; 0;40705  
 11; 2823.6; 12-DEC-2009 18:27:44; Bright; 45.5; 42; 34Bet Aur ; 1.90; 10200;occ; 91; 0;40705  
 12; 3752.6; 12-DEC-2009 18:43:13; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;40705  
 13; 3992.3; 12-DEC-2009 18:47:13; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40705  
 14; 4139.7; 12-DEC-2009 18:49:40; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;40705  
 15; 4333.6; 12-DEC-2009 18:52:54; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;40705  
 16; 4716.5; 12-DEC-2009 18:59:17; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40705  
 17; 4939.5; 12-DEC-2009 19:03:00; Bright; 55.0; 138; 47Eps Vir ; 2.83; 4700;occ; 110; 0;40705  
 18; 5295.1; 12-DEC-2009 19:08:56; Dark ; 51.0; 15; 67Alp Vir ; 0.98; 28000;occ; 102; 0;40705  
 19; 5504.1; 12-DEC-2009 19:12:25; Dark ; 46.0; 169; 46Gam Hya ; 2.99; 4700;occ; 92; 0;40705  
 20; 5627.9; 12-DEC-2009 19:14:28; Dark ; 52.5; 100; 4Gam Crv ; 2.58; 13100;occ; 105; 0;40705  
 21; 5723.8; 12-DEC-2009 19:16:04; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;40705  
 22; 5948.9; 12-DEC-2009 19:19:49; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40705  
 23; 6043.6; 12-DEC-2009 19:21:24; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40705  
 24; 6264.7; 12-DEC-2009 19:25:05; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40705  
 25; 6504.3; 12-DEC-2009 19:29:05; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;40705  
 26; 6580.0; 12-DEC-2009 19:30:21; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40705  
 27; 6779.3; 12-DEC-2009 19:33:40; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40705  
 28; 6921.9; 12-DEC-2009 19:36:03; Dark ; 29.0; 2; Alp Car ; -0.74; 7000;occ; 58; 0;40705

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1; 885.9; 12-DEC-2009 19:36:03; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;40706  
 2; 1041.2; 12-DEC-2009 19:38:38; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40706  
 3; 1243.2; 12-DEC-2009 19:42:00; Dark ; 57.0; 23; 21Eps CMa ; 1.50; 26000;occ; 114; 0;40706  
 4; 1530.7; 12-DEC-2009 19:46:47; Dark ; 55.0; 47; 2Bet CMa ; 1.98; 28000;occ; 110; 0;40706  
 5; 1748.3; 12-DEC-2009 19:50:25; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;40706  
 6; 1890.9; 12-DEC-2009 19:52:47; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;40706  
 7; 2035.6; 12-DEC-2009 19:55:12; Dark ; 48.0; 27; 24Gam Ori ; 1.64; 26000;occ; 96; 0;40706  
 8; 2194.5; 12-DEC-2009 19:57:51; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;40706  
 9; 2345.5; 12-DEC-2009 20:00:22; Bright; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;40706  
 10; 2467.6; 12-DEC-2009 20:02:24; Bright; 45.0; 28; 12Bet Tau ; 1.65; 15200;occ; 90; 0;40706  
 11; 2589.7; 12-DEC-2009 20:04:26; Bright; 36.0; 149; 45Eps Per ; 2.89; 30000;occ; 72; 0;40706  
 12; 2695.2; 12-DEC-2009 20:06:12; Bright; 48.0; 107; 37The Aur ; 2.65; 11000;occ; 96; 0;40706  
 13; 2822.9; 12-DEC-2009 20:08:19; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;40706  
 14; 3752.1; 12-DEC-2009 20:23:49; Bright; 48.5; 36; 50Alp UMa ; 1.80; 6300;occ; 97; 0;40706  
 15; 3992.0; 12-DEC-2009 20:27:49; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;40706  
 16; 4139.9; 12-DEC-2009 20:30:16; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40706  
 17; 4333.5; 12-DEC-2009 20:33:30; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40706  
 18; 4716.6; 12-DEC-2009 20:39:53; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;40706  
 19; 4940.2; 12-DEC-2009 20:43:37; Bright; 53.5; 138; 47Eps Vir ; 2.83; 4700;occ; 107; 0;40706

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1; -740.3; 12-DEC-2009 20:49:32; Dark ; 45.0; 15; 67Alp Vir ; 0.98; 28000;occ; 90; 0;40706  
 2; -531.6; 12-DEC-2009 20:53:01; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;40706  
 3; -407.0; 12-DEC-2009 20:55:05; Dark ; 54.0; 100; 4Gam Crv ; 2.58; 13100;occ; 108; 0;40706  
 4; -311.0; 12-DEC-2009 20:56:42; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;40706  
 5; -86.5; 12-DEC-2009 21:00:26; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40706  
 6; 8.2; 12-DEC-2009 21:02:01; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40707  
 7; 229.7; 12-DEC-2009 21:05:42; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;40707  
 8; 468.7; 12-DEC-2009 21:09:41; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40707

9; 544.8; 12-DEC-2009 21:10:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40707  
 10; 744.0; 12-DEC-2009 21:14:16; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;40707  
 11; 886.5; 12-DEC-2009 21:16:39; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;40707  
 12; 1041.6; 12-DEC-2009 21:19:14; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;40707  
 13; 1243.7; 12-DEC-2009 21:22:36; Dark ; 55.0; 23; 21Eps CMA ; 1.50; 26000;occ; 110; 0;40707  
 14; 1530.8; 12-DEC-2009 21:27:23; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;40707  
 15; 1748.4; 12-DEC-2009 21:31:01; Dark ; 53.0; 7; 19Bet Ori ; 0.10; 14000;occ; 106; 0;40707  
 16; 1890.6; 12-DEC-2009 21:33:23; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;40707  
 17; 2035.2; 12-DEC-2009 21:35:48; Dark ; 49.5; 27; 24Gam Ori ; 1.64; 26000;occ; 99; 0;40707  
 18; 2194.4; 12-DEC-2009 21:38:27; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;40707  
 19; 2345.0; 12-DEC-2009 21:40:57; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40707  
 20; 2467.1; 12-DEC-2009 21:43:00; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 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  
 24; 3751.7; 12-DEC-2009 22:04:24; Bright; 48.0; 36; 50Alp UMa ; 1.80; 6300;occ; 96; 0;40707  
 25; 3991.9; 12-DEC-2009 22:08:24; Bright; 45.0; 32; 77Eps UMa ; 1.76; 11000;occ; 90; 0;40707  
 26; 4139.7; 12-DEC-2009 22:10:52; Bright; 57.0; 39; 85Eta UMa ; 1.85; 24000;occ; 114; 0;40707  
 27; 4333.8; 12-DEC-2009 22:14:06; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;40707  
 28; 4716.9; 12-DEC-2009 22:20:29; Bright; 39.0; 111; 8Eta Boo ; 2.68; 6000;occ; 78; 0;40707  
 29; 4940.7; 12-DEC-2009 22:24:13; Bright; 54.0; 138; 47Eps Vir ; 2.83; 4700;occ; 108; 0;40707  
 30; 5296.0; 12-DEC-2009 22:30:09; Dark ; 44.0; 15; 67Alp Vir ; 0.98; 28000;occ; 88; 0;40707

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1; -739.9; 12-DEC-2009 22:30:09; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 0;40707  
 2; -530.8; 12-DEC-2009 22:33:38; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;40707  
 3; -405.7; 12-DEC-2009 22:35:43; Dark ; 53.5; 100; 4Gam Crv ; 2.58; 13100;occ; 107; 0;40707  
 4; -309.6; 12-DEC-2009 22:37:19; Dark ; 63.0; 171; 2Eps Crv ; 3.00; 4250;occ; 126; 0;40707  
 5; -85.9; 12-DEC-2009 22:41:02; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;40707  
 6; 8.7; 12-DEC-2009 22:42:37; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40708  
 7; 230.5; 12-DEC-2009 22:46:19; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;40708  
 8; 469.4; 12-DEC-2009 22:50:18; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40708  
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 11; 886.9; 12-DEC-2009 22:57:15; Dark ; 49.5; 2; Alp Car ;-0.74; 7000;occ; 99; 0;40708  
 12; 1042.3; 12-DEC-2009 22:59:51; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 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  
 18; 2194.2; 12-DEC-2009 23:19:03; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;40708  
 19; 2344.7; 12-DEC-2009 23:21:33; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40708  
 20; 2466.7; 12-DEC-2009 23:23:35; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40708  
 21; 2589.7; 12-DEC-2009 23:25:38; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;40708  
 22; 2693.9; 12-DEC-2009 23:27:22; Bright; 66.0; 107; 37The Aur ; 2.65; 11000;occ; 132; 0;40708  
 23; 2821.5; 12-DEC-2009 23:29:30; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;40708  
 24; 3751.3; 12-DEC-2009 23:45:00; Bright; 43.0; 36; 50Alp UMa ; 1.80; 6300;occ; 86; 0;40708  
 25; 3991.3; 12-DEC-2009 23:49:00; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;40708  
 26; 4139.5; 12-DEC-2009 23:51:28; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;40708  
 27; 4334.0; 12-DEC-2009 23:54:42; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;40708  
 28; 4717.3; 13-DEC-2009 00:01:06; Bright; 38.5; 111; 8Eta Boo ; 2.68; 6000;occ; 77; 0;40708  
 29; 4941.2; 13-DEC-2009 00:04:50; Bright; 70.0; 138; 47Eps Vir ; 2.83; 4700;occ; 140; 0;40708  
 30; 5296.7; 13-DEC-2009 00:10:45; Dark ; 48.0; 15; 67Alp Vir ; 0.98; 28000;occ; 96; 0;40708

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1; -712.1; 13-DEC-2009 00:11:12; Dark ; 48.5; 15; 67Alp Vir ; 0.98; 28000;occ; 97; 54;40708  
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 3; -308.5; 13-DEC-2009 00:17:56; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;40708  
 4; -85.5; 13-DEC-2009 00:21:39; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;40708  
 5; 9.4; 13-DEC-2009 00:23:14; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;40709  
 6; 231.4; 13-DEC-2009 00:26:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40709  
 7; 470.0; 13-DEC-2009 00:30:54; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40709  
 8; 546.4; 13-DEC-2009 00:32:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40709  
 9; 745.4; 13-DEC-2009 00:35:30; Dark ; 52.0; 34; Gam2Vel ; 1.79; 23000;occ; 104; 0;40709  
 10; 887.1; 13-DEC-2009 00:37:51; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;40709  
 11; 1042.9; 13-DEC-2009 00:40:27; Dark ; 54.0; 117; Pi Pup ; 2.71; 3800;occ; 108; 0;40709  
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 13; 1531.0; 13-DEC-2009 00:48:35; Dark ; 52.5; 47; 2Bet CMA ; 1.98; 28000;occ; 105; 0;40709  
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 17; 5540.4; 16-DEC-2009 08:43:34; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40756  
 18; 5691.9; 16-DEC-2009 08:46:05; Dark ; 51.0; 106; 9Bet Crv ; 2.65; 5600;occ; 102; 0;40756  
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 20; 5979.9; 16-DEC-2009 08:50:53; Dark ; 48.5; 64; Gam Cen ; 2.20; 10600;occ; 97; 0;40756  
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 22; 6310.0; 16-DEC-2009 08:56:23; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40756  
 23; 6536.0; 16-DEC-2009 09:00:10; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40756  
 24; 6618.6; 16-DEC-2009 09:01:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40756  
 25; 6816.4; 16-DEC-2009 09:04:50; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40756  
 26; 6944.2; 16-DEC-2009 09:06:58; Dark ; 51.5; 70; Zet Pup ; 2.25; 39000;occ; 103; 0;40756  
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 31; 7786.0; 16-DEC-2009 09:21:00; Dark ; 45.0; 7; 19Bet Ori ; 0.10; 14000;occ; 90; 0;40756

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 9; 3704.5; 16-DEC-2009 09:53:34; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40757  
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 11; 4137.4; 16-DEC-2009 10:00:47; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40757  
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 15; 4972.7; 16-DEC-2009 10:14:42; Bright; 48.0; 138; 47Eps Vir ; 2.83; 4700;occ; 96; 0;40757  
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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
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30; 7302.4; 16-DEC-2009 12:34:08; Dark ; 52.0; 23; 21Eps CMa ; 1.50; 26000;occ; 104; 0;40758
31; 7574.3; 16-DEC-2009 12:38:40; Dark ; 48.5; 47; 2Bet CMa ; 1.98; 28000;occ; 97; 0;40758
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13; 4338.9; 16-DEC-2009 13:25:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40759
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 26; 7308.5; 17-DEC-2009 13:43:13; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40773  
 27; 7414.8; 17-DEC-2009 13:44:59; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40773

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1; 1540.5; 17-DEC-2009 13:47:41; Dark ; 50.0; 47; 2Bet CMa ; 1.98; 28000;occ; 100; 0;40774  
 2; 1750.9; 17-DEC-2009 13:51:11; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;40774  
 3; 1883.2; 17-DEC-2009 13:53:23; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40774  
 4; 2067.5; 17-DEC-2009 13:56:28; Dark ; 57.0; 14; 58Alp Ori ; 0.87; 3000;occ; 114; 0;40774  
 5; 2189.3; 17-DEC-2009 13:58:30; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40774  
 6; 2316.4; 17-DEC-2009 14:00:37; Bright; 41.5; 176; 23Zet Tau ; 3.02; 22000;occ; 83; 0;40774  
 7; 2440.1; 17-DEC-2009 14:02:40; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;40774  
 8; 2651.5; 17-DEC-2009 14:06:12; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40774  
 9; 2782.5; 17-DEC-2009 14:08:23; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;40774  
 10; 3704.2; 17-DEC-2009 14:23:44; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40774  
 11; 3977.7; 17-DEC-2009 14:28:18; Bright; 42.0; 32; 77Eps UMA ; 1.76; 11000;occ; 84; 0;40774  
 12; 4136.1; 17-DEC-2009 14:30:56; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;40774  
 13; 4340.1; 17-DEC-2009 14:34:20; Bright; 55.0; 180; 27Gam Boo ; 3.04; 8000;occ; 110; 0;40774  
 14; 4535.1; 17-DEC-2009 14:37:35; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40774  
 15; 4738.0; 17-DEC-2009 14:40:58; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40774  
 16; 5343.8; 17-DEC-2009 14:51:04; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40774  
 17; 5554.5; 17-DEC-2009 14:54:35; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;40774  
 18; 5711.8; 17-DEC-2009 14:57:12; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40774  
 19; 5991.4; 17-DEC-2009 15:01:52; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40774  
 20; 6090.7; 17-DEC-2009 15:03:31; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40774  
 21; 6326.1; 17-DEC-2009 15:07:26; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40774

22; 6547.2; 17-DEC-2009 15:11:07; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40774  
 23; 6632.0; 17-DEC-2009 15:12:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40774  
 24; 6828.8; 17-DEC-2009 15:15:49; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;40774  
 25; 6957.5; 17-DEC-2009 15:17:58; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40774  
 26; 7116.7; 17-DEC-2009 15:20:37; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;40774  
 27; 7309.0; 17-DEC-2009 15:23:49; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40774  
 28; 7415.0; 17-DEC-2009 15:25:35; Dark ; 10.5; 179; 240mi2CMA ; 3.03; 24000;occ; 21; 0;40774

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1; 1379.1; 17-DEC-2009 15:25:35; Dark ; 50.0; 179; 240mi2CMA ; 3.03; 24000;occ; 100; 0;40775  
 2; 1540.7; 17-DEC-2009 15:28:17; Dark ; 50.5; 47; 2Bet CMA ; 1.98; 28000;occ; 101; 0;40775  
 3; 1751.0; 17-DEC-2009 15:31:47; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;40775  
 4; 1883.1; 17-DEC-2009 15:33:59; Dark ; 46.5; 30; 46Eps Ori ; 1.69; 30000;occ; 93; 0;40775  
 5; 2067.4; 17-DEC-2009 15:37:04; Dark ; 65.0; 14; 58Alp Ori ; 0.87; 3000;occ; 130; 0;40775  
 6; 2189.1; 17-DEC-2009 15:39:05; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;40775  
 7; 2316.0; 17-DEC-2009 15:41:12; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40775  
 8; 2439.5; 17-DEC-2009 15:43:16; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;40775  
 9; 2651.0; 17-DEC-2009 15:46:47; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40775  
 10; 2782.0; 17-DEC-2009 15:48:58; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40775  
 11; 3704.2; 17-DEC-2009 16:04:20; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;40775  
 12; 3977.4; 17-DEC-2009 16:08:54; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40775  
 13; 4136.1; 17-DEC-2009 16:11:32; Bright; 41.5; 39; 85Eta UMa ; 1.85; 24000;occ; 83; 0;40775  
 14; 4340.5; 17-DEC-2009 16:14:57; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40775  
 15; 4535.1; 17-DEC-2009 16:18:11; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;40775  
 16; 4738.2; 17-DEC-2009 16:21:34; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;40775  
 17; 5344.7; 17-DEC-2009 16:31:41; Dark ; 54.5; 15; 67Alp Vir ; 0.98; 28000;occ; 109; 0;40775  
 18; 5555.2; 17-DEC-2009 16:35:11; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;40775  
 19; 5712.9; 17-DEC-2009 16:37:49; Dark ; 58.0; 106; 9Bet Crv ; 2.65; 5600;occ; 116; 0;40775  
 20; 5992.1; 17-DEC-2009 16:42:28; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;40775  
 21; 6091.6; 17-DEC-2009 16:44:08; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40775  
 22; 6327.1; 17-DEC-2009 16:48:03; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;40775  
 23; 6547.7; 17-DEC-2009 16:51:44; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;40775  
 24; 6632.8; 17-DEC-2009 16:53:09; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40775  
 25; 6829.6; 17-DEC-2009 16:56:26; Dark ; 54.0; 34; Gam2Vel ; 1.79; 23000;occ; 108; 0;40775  
 26; 6958.2; 17-DEC-2009 16:58:34; Dark ; 53.5; 70; Zet Pup ; 2.25; 39000;occ; 107; 0;40775  
 27; 7117.5; 17-DEC-2009 17:01:14; Dark ; 50.5; 117; Pi Pup ; 2.71; 3800;occ; 101; 0;40775

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1; 1273.4; 17-DEC-2009 17:04:26; Dark ; 52.0; 23; 21Eps CMA ; 1.50; 26000;occ; 104; 0;40776  
 2; 1379.5; 17-DEC-2009 17:06:12; Dark ; 51.5; 179; 240mi2CMA ; 3.03; 24000;occ; 103; 0;40776  
 3; 1557.5; 17-DEC-2009 17:09:10; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;40776  
 4; 1751.1; 17-DEC-2009 17:12:23; Dark ; 46.5; 7; 19Bet Ori ; 0.10; 14000;occ; 93; 0;40776  
 5; 1882.9; 17-DEC-2009 17:14:35; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;40776  
 6; 2067.1; 17-DEC-2009 17:17:39; Dark ; 57.5; 14; 58Alp Ori ; 0.87; 3000;occ; 115; 0;40776  
 7; 2189.1; 17-DEC-2009 17:19:41; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;40776  
 8; 2315.8; 17-DEC-2009 17:21:48; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;40776  
 9; 2439.2; 17-DEC-2009 17:23:51; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;40776  
 10; 2650.2; 17-DEC-2009 17:27:22; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;40776  
 11; 2781.4; 17-DEC-2009 17:29:34; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40776  
 12; 3704.1; 17-DEC-2009 17:44:56; Bright; 34.0; 60; 7Bet UMi ; 2.08; 3950;occ; 68; 0;40776  
 13; 3977.1; 17-DEC-2009 17:49:29; Bright; 56.0; 32; 77Eps UMa ; 1.76; 11000;occ; 112; 0;40776  
 14; 4136.2; 17-DEC-2009 17:52:08; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;40776  
 15; 4340.5; 17-DEC-2009 17:55:33; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;40776  
 16; 4535.5; 17-DEC-2009 17:58:48; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;40776  
 17; 4738.4; 17-DEC-2009 18:02:11; Bright; 41.5; 111; 8Eta Boo ; 2.68; 6000;occ; 83; 0;40776  
 18; 5345.4; 17-DEC-2009 18:12:18; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40776  
 19; 5556.2; 17-DEC-2009 18:15:48; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;40776  
 20; 5714.2; 17-DEC-2009 18:18:26; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;40776  
 21; 5992.9; 17-DEC-2009 18:23:05; Dark ; 41.0; 64; Gam Cen ; 2.20; 10600;occ; 82; 0;40776  
 22; 6092.2; 17-DEC-2009 18:24:44; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;40776  
 23; 6327.9; 17-DEC-2009 18:28:40; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40776  
 24; 6548.4; 17-DEC-2009 18:32:21; Dark ; 44.0; 71; Iot Car ; 2.25; 7700;occ; 88; 0;40776  
 25; 6633.5; 17-DEC-2009 18:33:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40776  
 26; 6830.3; 17-DEC-2009 18:37:03; Dark ; 49.5; 34; Gam2Vel ; 1.79; 23000;occ; 99; 0;40776  
 27; 6959.2; 17-DEC-2009 18:39:11; Dark ; 50.5; 70; Zet Pup ; 2.25; 39000;occ; 101; 0;40776

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1; 1082.0; 17-DEC-2009 18:41:50; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40777  
 2; 1273.8; 17-DEC-2009 18:45:02; Dark ; 52.5; 23; 21Eps CMA ; 1.50; 26000;occ; 105; 0;40777  
 3; 1379.5; 17-DEC-2009 18:46:48; Dark ; 54.0; 179; 240mi2CMA ; 3.03; 24000;occ; 108; 0;40777  
 4; 1557.8; 17-DEC-2009 18:49:46; Dark ; 27.0; 1; 9Alp CMA ; -1.44; 11000;occ; 54; 0;40777



5; 1751.1; 17-DEC-2009 18:52:59; Dark ; 46.0; 7; 19Bet Ori ; 0.10; 14000;occ; 92; 0;40777  
6; 1883.0; 17-DEC-2009 18:55:11; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;40777  
7; 2066.6; 17-DEC-2009 18:58:15; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40777  
8; 2189.1; 17-DEC-2009 19:00:17; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;40777  
9; 2315.1; 17-DEC-2009 19:02:23; Bright; 43.5; 176; 23Zet Tau ; 3.02; 22000;occ; 87; 0;40777  
10; 2438.6; 17-DEC-2009 19:04:27; Bright; 56.5; 28; 12Bet Tau ; 1.65; 15200;occ; 113; 0;40777  
11; 2649.6; 17-DEC-2009 19:07:58; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;40777  
12; 2780.9; 17-DEC-2009 19:10:09; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;40777  
13; 3704.1; 17-DEC-2009 19:25:32; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40777  
14; 3977.1; 17-DEC-2009 19:30:05; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;40777  
15; 4136.1; 17-DEC-2009 19:32:44; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;40777  
16; 4340.3; 17-DEC-2009 19:36:09; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;40777  
17; 4535.6; 17-DEC-2009 19:39:24; Bright; 38.5; 83; ; 2.38; 11000;occ; 77; 0;40777  
18; 4738.7; 17-DEC-2009 19:42:47; Bright; 42.0; 111; 8Eta Boo ; 2.68; 6000;occ; 84; 0;40777  
19; 5346.1; 17-DEC-2009 19:52:54; Dark ; 52.5; 15; 67Alp Vir ; 0.98; 28000;occ; 105; 0;40777  
20; 5556.6; 17-DEC-2009 19:56:25; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;40777  
21; 5715.4; 17-DEC-2009 19:59:04; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;40777  
22; 5993.2; 17-DEC-2009 20:03:41; Dark ; 50.5; 64; Gam Cen ; 2.20; 10600;occ; 101; 0;40777  
23; 6092.8; 17-DEC-2009 20:05:21; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;40777  
24; 6328.7; 17-DEC-2009 20:09:17; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40777  
25; 6548.8; 17-DEC-2009 20:12:57; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40777  
26; 6634.2; 17-DEC-2009 20:14:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40777  
27; 6831.0; 17-DEC-2009 20:17:39; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;40777

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3; 59.1; 18-DEC-2009 01:07:11; Dark ; 42.5; 99; Del Cen ; 2.58; 26000;occ; 85; 0;40781  
4; 295.4; 18-DEC-2009 01:11:07; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;40781  
5; 514.6; 18-DEC-2009 01:14:46; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40781  
6; 600.5; 18-DEC-2009 01:16:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40781  
7; 797.0; 18-DEC-2009 01:19:29; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;40781  
8; 926.0; 18-DEC-2009 01:21:38; Dark ; 51.0; 70; Zet Pup ; 2.25; 39000;occ; 102; 0;40781  
9; 1084.0; 18-DEC-2009 01:24:16; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;40781  
10; 1275.5; 18-DEC-2009 01:27:27; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;40781  
11; 1381.0; 18-DEC-2009 01:29:13; Dark ; 52.0; 179; 240mi2CMa ; 3.03; 24000;occ; 104; 0;40781  
12; 1558.1; 18-DEC-2009 01:32:10; Dark ; 39.0; 1; 9Alp CMa ; -1.44; 11000;occ; 78; 0;40781  
13; 1751.1; 18-DEC-2009 01:35:23; Dark ; 48.0; 7; 19Bet Ori ; 0.10; 14000;occ; 96; 0;40781  
14; 1882.5; 18-DEC-2009 01:37:34; Dark ; 44.5; 30; 46Eps Ori ; 1.69; 30000;occ; 89; 0;40781  
15; 2065.6; 18-DEC-2009 01:40:37; Dark ; 56.5; 14; 58Alp Ori ; 0.87; 3000;occ; 113; 0;40781  
16; 2188.7; 18-DEC-2009 01:42:41; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;40781  
17; 2313.7; 18-DEC-2009 01:44:46; Bright; 45.0; 176; 23Zet Tau ; 3.02; 22000;occ; 90; 0;40781  
18; 2437.4; 18-DEC-2009 01:46:49; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40781  
19; 2647.4; 18-DEC-2009 01:50:19; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;40781  
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21; 3704.1; 18-DEC-2009 02:07:56; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40781  
22; 3975.9; 18-DEC-2009 02:12:28; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;40781  
23; 4135.7; 18-DEC-2009 02:15:08; Bright; 16.5; 39; 85Eta UMa ; 1.85; 24000;occ; 33; 0;40781

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1; -1900.2; 18-DEC-2009 02:15:08; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;40781  
2; -1695.0; 18-DEC-2009 02:18:33; Bright; 35.5; 180; 27Gam Boo ; 3.04; 8000;occ; 71; 0;40781  
3; -1499.9; 18-DEC-2009 02:21:48; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40781  
4; -1296.1; 18-DEC-2009 02:25:12; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;40781  
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6; -476.0; 18-DEC-2009 02:38:52; Dark ; 47.5; 169; 46Gam Hya ; 2.99; 4700;occ; 95; 0;40781  
7; -316.0; 18-DEC-2009 02:41:32; Dark ; 59.0; 106; 9Bet Crv ; 2.65; 5600;occ; 118; 0;40781  
8; -40.1; 18-DEC-2009 02:46:08; Dark ; 40.0; 64; Gam Cen ; 2.20; 10600;occ; 80; 0;40781  
9; 59.8; 18-DEC-2009 02:47:48; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;40782  
10; 296.3; 18-DEC-2009 02:51:44; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;40782  
11; 515.4; 18-DEC-2009 02:55:23; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40782  
12; 601.2; 18-DEC-2009 02:56:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40782  
13; 797.7; 18-DEC-2009 03:00:05; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;40782  
14; 926.5; 18-DEC-2009 03:02:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40782  
15; 1084.5; 18-DEC-2009 03:04:52; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;40782  
16; 1275.8; 18-DEC-2009 03:08:04; Dark ; 53.5; 23; 21Eps CMa ; 1.50; 26000;occ; 107; 0;40782  
17; 1381.2; 18-DEC-2009 03:09:49; Dark ; 53.0; 179; 240mi2CMa ; 3.03; 24000;occ; 106; 0;40782  
18; 1558.1; 18-DEC-2009 03:12:46; Dark ; 45.0; 1; 9Alp CMa ; -1.44; 11000;occ; 90; 0;40782  
19; 1751.3; 18-DEC-2009 03:15:59; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;40782  
20; 1882.5; 18-DEC-2009 03:18:10; Dark ; 47.0; 30; 46Eps Ori ; 1.69; 30000;occ; 94; 0;40782

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22; 2188.7; 18-DEC-2009 03:23:16; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;40782
23; 2313.3; 18-DEC-2009 03:25:21; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;40782
24; 2437.0; 18-DEC-2009 03:27:25; Bright; 44.5; 28; 12Bet Tau ; 1.65; 15200;occ; 89; 0;40782
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 13; 3703.5; 18-DEC-2009 18:53:55; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40791  
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 23; 3703.2; 19-DEC-2009 01:36:18; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40795  
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 19; 4770.2; 23-DEC-2009 21:35:25; Bright; 65.5; 111; 8Eta Boo ; 2.68; 6000;occ; 131; 0;40864

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 13; 1567.7; 23-DEC-2009 22:22:38; Dark ; 54.0; 1; 9Alp CMa ; -1.44; 11000;occ; 108; 0;40865  
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 16; 2046.0; 23-DEC-2009 22:30:37; Dark ; 55.0; 14; 58Alp Ori ; 0.87; 3000;occ; 110; 0;40865  
 17; 2289.3; 23-DEC-2009 22:34:40; Bright; 40.5; 176; 23Zet Tau ; 3.02; 22000;occ; 81; 0;40865  
 18; 2414.0; 23-DEC-2009 22:36:45; Bright; 42.5; 28; 12Bet Tau ; 1.65; 15200;occ; 85; 0;40865  
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 21; 3700.2; 23-DEC-2009 22:58:11; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;40865  
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 23; 4127.6; 23-DEC-2009 23:05:18; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;40865  
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 26; 4771.0; 23-DEC-2009 23:16:02; Bright; 65.5; 111; 8Eta Boo ; 2.68; 6000;occ; 131; 0;40865

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 5; 372.5; 23-DEC-2009 23:43:19; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40866  
 6; 565.6; 23-DEC-2009 23:46:32; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;40866  
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 11; 1306.1; 23-DEC-2009 23:58:53; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;40866  
 12; 1405.5; 24-DEC-2009 00:00:32; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;40866  
 13; 1567.9; 24-DEC-2009 00:03:14; Dark ; 54.5; 1; 9Alp CMa ; -1.44; 11000;occ; 109; 0;40866  
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 19; 2605.5; 24-DEC-2009 00:20:32; Bright; 41.0; 107; 37The Aur ; 2.65; 11000;occ; 82; 0;40866  
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 22; 3952.7; 24-DEC-2009 00:42:59; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;40866  
 23; 4127.5; 24-DEC-2009 00:45:54; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40866  
 24; 4347.4; 24-DEC-2009 00:49:34; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;40866  
 25; 4551.4; 24-DEC-2009 00:52:58; Bright; 57.0; 83; ; 2.38; 11000;occ; 114; 0;40866  
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12; 363.5; 23-DEC-2009 06:57:11; Dark ; 57.0; 113; Mu Vel ; 2.69; 5000;occ; 114; 0;40856  
13; 559.9; 23-DEC-2009 07:00:27; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;40856  
14; 666.3; 23-DEC-2009 07:02:13; Dark ; 42.0; 41; Eps Car ; 1.86; 4100;occ; 84; 0;40856  
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5; 2416.3; 23-DEC-2009 07:31:23; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;40856  
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7; 2711.6; 23-DEC-2009 07:36:19; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;40856  
8; 3700.8; 23-DEC-2009 07:52:48; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;40856  
9; 3955.6; 23-DEC-2009 07:57:03; Bright; 46.0; 32; 77Eps UMa ; 1.76; 11000;occ; 92; 0;40856  
10; 4128.8; 23-DEC-2009 07:59:56; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;40856  
11; 4346.7; 23-DEC-2009 08:03:34; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;40856  
12; 4549.7; 23-DEC-2009 08:06:57; Bright; 37.0; 83; ; 2.38; 11000;occ; 74; 0;40856  
13; 4767.3; 23-DEC-2009 08:10:34; Bright; 66.0; 111; 8Eta Boo ; 2.68; 6000;occ; 132; 0;40856  
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23; 7013.5; 23-DEC-2009 08:48:01; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;40856  
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26; 7438.9; 23-DEC-2009 08:55:06; Dark ; 48.5; 179; 240mi2CMa ; 3.03; 24000;occ; 97; 0;40856  
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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8; 3700.4; 23-DEC-2009 09:33:23; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;40857  
9; 3955.4; 23-DEC-2009 09:37:38; Bright; 44.5; 32; 77Eps UMa ; 1.76; 11000;occ; 89; 0;40857  
10; 4128.8; 23-DEC-2009 09:40:32; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;40857  
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 9; 3700.5; 23-DEC-2009 12:54:35; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;40859
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21; 6404.0; 23-DEC-2009 15:20:15; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;40860  
22; 6598.8; 23-DEC-2009 15:23:29; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;40860  
23; 6704.7; 23-DEC-2009 15:25:15; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;40860  
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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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12; 3700.5; 23-DEC-2009 16:15:47; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;40861  
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14; 4128.1; 23-DEC-2009 16:22:55; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;40861  
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22; 6138.6; 23-DEC-2009 16:56:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40861  
23; 6404.9; 23-DEC-2009 17:00:52; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40861  
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27; 7016.6; 23-DEC-2009 17:11:03; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;40861  
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13; 3700.4; 23-DEC-2009 17:56:23; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;40862  
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 22; 5823.8; 23-DEC-2009 20:12:23; Dark ; 30.0; 106; 9Bet Crv ; 2.65; 5600;occ; 60; 0;40863  
 23; 6052.0; 23-DEC-2009 20:16:11; Dark ; 48.0; 64; Gam Cen ; 2.20; 10600;occ; 96; 0;40863  
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 13; 4349.6; 26-DEC-2009 16:32:21; Bright; 59.0; 180; 27Gam Boo ; 3.04; 8000;occ; 118; 0;40904  
 14; 4559.2; 26-DEC-2009 16:35:51; Bright; 39.0; 83; ; 2.38; 11000;occ; 78; 0;40904  
 15; 4787.7; 26-DEC-2009 16:39:39; Bright; 49.5; 111; 8Eta Boo ; 2.68; 6000;occ; 99; 0;40904  
 16; 5312.5; 26-DEC-2009 16:48:24; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;40904  
 17; 5464.8; 26-DEC-2009 16:50:57; Dark ; 60.0; 15; 67Alp Vir ; 0.98; 28000;occ; 120; 0;40904  
 18; 5715.9; 26-DEC-2009 16:55:08; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;40904  
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 21; 6176.6; 26-DEC-2009 17:02:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40904  
 22; 6444.1; 26-DEC-2009 17:07:16; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;40904  
 23; 6624.2; 26-DEC-2009 17:10:16; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;40904  
 24; 6726.4; 26-DEC-2009 17:11:58; Dark ; 43.5; 41; Eps Car ; 1.86; 4100;occ; 87; 0;40904  
 25; 6911.1; 26-DEC-2009 17:15:03; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;40904  
 26; 7042.6; 26-DEC-2009 17:17:14; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;40904  
 27; 7178.7; 26-DEC-2009 17:19:30; Dark ; 48.5; 117; Pi Pup ; 2.71; 3800;occ; 97; 0;40904

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

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1;	1007.3;	26-DEC-2009	18:57:51;	Dark	;	48.0;	70;	Zet Pup	;	2.25;	39000;	occ;	96;	0;	40906
2;	1143.0;	26-DEC-2009	19:00:07;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	40906
3;	1319.0;	26-DEC-2009	19:03:03;	Dark	;	48.0;	23;	21Eps CMa	;	1.50;	26000;	occ;	96;	0;	40906
4;	1415.9;	26-DEC-2009	19:04:40;	Dark	;	46.5;	179;	240mi2CMa	;	3.03;	24000;	occ;	93;	0;	40906
5;	1572.6;	26-DEC-2009	19:07:16;	Dark	;	52.5;	1;	9Alp CMa	;	-1.44;	11000;	occ;	105;	0;	40906
6;	1724.9;	26-DEC-2009	19:09:49;	Dark	;	45.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	90;	0;	40906
7;	1878.8;	26-DEC-2009	19:12:23;	Dark	;	44.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	89;	0;	40906
8;	2039.8;	26-DEC-2009	19:15:04;	Dark	;	51.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	103;	0;	40906
9;	2259.7;	26-DEC-2009	19:18:44;	Dark	;	63.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	126;	0;	40906
10;	2406.2;	26-DEC-2009	19:21:10;	Bright;		38.5;	28;	12Bet Tau	;	1.65;	15200;	occ;	77;	0;	40906
11;	2590.0;	26-DEC-2009	19:24:14;	Bright;		40.0;	107;	37The Aur	;	2.65;	11000;	occ;	80;	0;	40906
12;	2701.7;	26-DEC-2009	19:26:06;	Bright;		43.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	87;	0;	40906
13;	3643.7;	26-DEC-2009	19:41:48;	Bright;		46.0;	36;	50Alp UMa	;	1.80;	6300;	occ;	92;	0;	40906
14;	3939.5;	26-DEC-2009	19:46:43;	Bright;		47.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	94;	0;	40906
15;	4121.9;	26-DEC-2009	19:49:46;	Bright;		41.5;	39;	85Eta UMa	;	1.85;	24000;	occ;	83;	0;	40906
16;	4349.6;	26-DEC-2009	19:53:33;	Bright;		41.5;	180;	27Gam Boo	;	3.04;	8000;	occ;	83;	0;	40906
17;	4559.5;	26-DEC-2009	19:57:03;	Bright;		39.0;	83;		;	2.38;	11000;	occ;	78;	0;	40906
18;	4788.4;	26-DEC-2009	20:00:52;	Bright;		70.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	140;	0;	40906
19;	5313.6;	26-DEC-2009	20:09:37;	Dark	;	46.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	93;	0;	40906
20;	5467.1;	26-DEC-2009	20:12:11;	Dark	;	59.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	118;	0;	40906
21;	5717.3;	26-DEC-2009	20:16:21;	Dark	;	44.5;	54;	5The Cen	;	2.06;	4500;	occ;	89;	0;	40906
22;	5843.9;	26-DEC-2009	20:18:28;	Dark	;	46.0;	123;	Iot Cen	;	2.75;	10200;	occ;	92;	0;	40906
23;	6084.1;	26-DEC-2009	20:22:28;	Dark	;	44.5;	64;	Gam Cen	;	2.20;	10600;	occ;	89;	0;	40906
24;	6178.3;	26-DEC-2009	20:24:02;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40906
25;	6445.7;	26-DEC-2009	20:28:30;	Dark	;	46.0;	113;	Mu Vel	;	2.69;	5000;	occ;	92;	0;	40906
26;	6625.1;	26-DEC-2009	20:31:29;	Dark	;	42.0;	71;	Iot Car	;	2.25;	7700;	occ;	84;	0;	40906
27;	6727.3;	26-DEC-2009	20:33:11;	Dark	;	53.0;	41;	Eps Car	;	1.86;	4100;	occ;	106;	0;	40906
28;	6912.0;	26-DEC-2009	20:36:16;	Dark	;	21.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	42;	0;	40906

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4;	-1475.9;	27-DEC-2009	02:39:27;	Bright;		58.0;	83;		;	2.38;	11000;	occ;	116;	0;	40910
5;	-1246.0;	27-DEC-2009	02:43:17;	Bright;		48.0;	111;	8Eta Boo	;	2.68;	6000;	occ;	96;	0;	40910
6;	-720.5;	27-DEC-2009	02:52:03;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40910
7;	-564.4;	27-DEC-2009	02:54:39;	Dark	;	58.0;	15;	67Alp Vir	;	0.98;	28000;	occ;	116;	0;	40910
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13; 591.7; 27-DEC-2009 03:13:55; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;40911
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19; 1417.1; 27-DEC-2009 03:27:40; Dark ; 47.0; 179; 240mi2CMA ; 3.03; 24000;occ; 94; 0;40911
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23; 2039.2; 27-DEC-2009 03:38:02; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;40911
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25; 2405.4; 27-DEC-2009 03:44:09; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;40911
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11; 148.7; 27-DEC-2009 08:08:20; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;40914
12; 416.2; 27-DEC-2009 08:12:48; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;40914
13; 593.2; 27-DEC-2009 08:15:44; Dark ; 39.0; 71; Iot Car ; 2.25; 7700;occ; 78; 0;40914
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11; 4120.7; 27-DEC-2009 09:14:32; Bright; 46.0; 39; 85Eta UMA ; 1.85; 24000;occ; 92; 0;40914
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13; 4560.8; 27-DEC-2009 09:21:52; Bright; 39.5; 83; ; 2.38; 11000;occ; 79; 0;40914
14; 4792.0; 27-DEC-2009 09:25:43; Bright; 71.0; 111; 8Eta Boo ; 2.68; 6000;occ; 142; 0;40914
15; 5317.5; 27-DEC-2009 09:34:29; Dark ; 43.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 86; 0;40914
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21; 6452.8; 27-DEC-2009 09:53:24; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;40914
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