

# GOMOS Daily Report 01-JAN-2010

## 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	03JAN2010 04:46:39
Data source version	GOMOS/5.00L04
Start time of products	01JAN2010 00:01:37
Stop time of products	01JAN2010 23:56:19
Store outputs in DB	Yes
Nb of level 1b prods	162
Nb of prods with errors	0

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

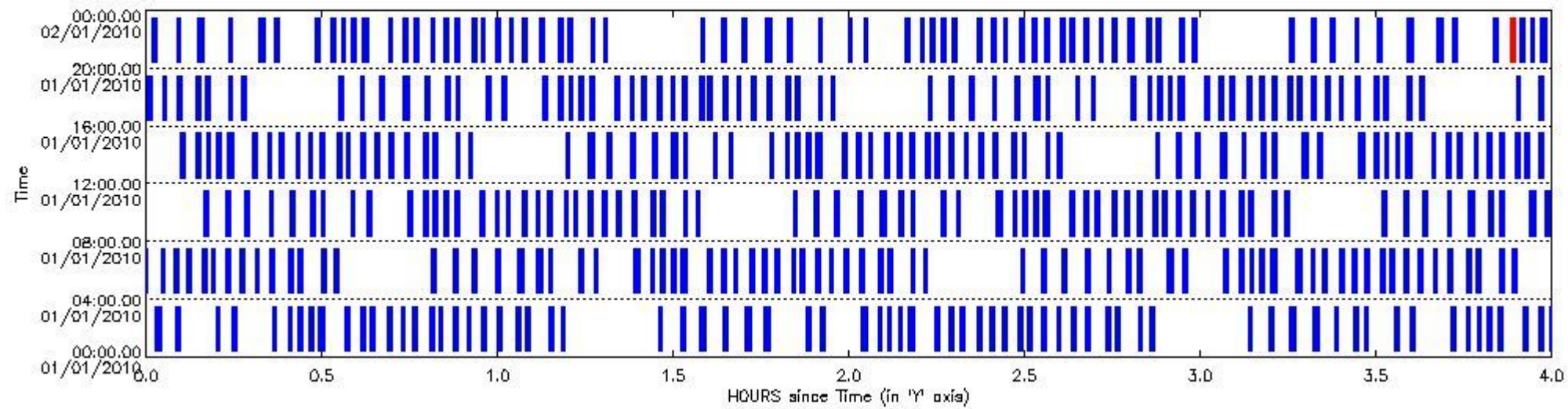
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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
01-JAN-2010 23:52:52	ZetCen	95	40994

### 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_1PNPDE20100101_000137_000000622085_00345_40980_1851.N1	01-JAN-2010 00:01:37	Bright	62.000	83		2.3780	11000.	124	40980	No
2	GOM_TRA_1PNPDE20100101_000453_000000552085_00345_40980_1852.N1	01-JAN-2010 00:04:53	Bright	55.000	3	16Alp Boo	-0.050000	4250.0	110	40980	No
3	GOM_TRA_1PNPDE20100101_001157_000000362085_00345_40980_1853.N1	01-JAN-2010 00:11:57	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	40980	No
4	GOM_TRA_1PNPDE20100101_001436_000000432085_00345_40980_1849.N1	01-JAN-2010 00:14:36	Twilight_stray	43.000	122	9Alp2Lib	2.7470	9700.0	86	40980	No
5	GOM_TRA_1PNPDE20100101_002129_000000442085_00345_40980_1850.N1	01-JAN-2010 00:21:29	Dark	44.000	54	5The Cen	2.0550	4500.0	88	40980	No
6	GOM_TRA_1PNPDE20100101_002415_000000412085_00345_40980_1851.N1	01-JAN-2010 00:24:15	Dark	40.500	95	Zet Cen	2.5450	26000.	81	40980	No
7	GOM_TRA_1PNPDE20100101_002600_000000412085_00345_40980_1852.N1	01-JAN-2010 00:26:00	Dark	41.000	77	Eps Cen	2.3030	28000.	82	40980	No
8	GOM_TRA_1PNPDE20100101_002745_000000432085_00346_40981_1853.N1	01-JAN-2010 00:27:45	Dark	43.000	64	Gam Cen	2.2000	10600.	86	40981	No
9	GOM_TRA_1PNPDE20100101_003355_000000472085_00346_40981_1854.N1	01-JAN-2010 00:33:55	Dark	46.500	113	Mu Vel	2.6920	5000.0	93	40981	No
10	GOM_TRA_1PNPDE20100101_003629_000000492085_00346_40981_1855.N1	01-JAN-2010 00:36:29	Dark	49.000	71	Iot Car	2.2460	7700.0	98	40981	No

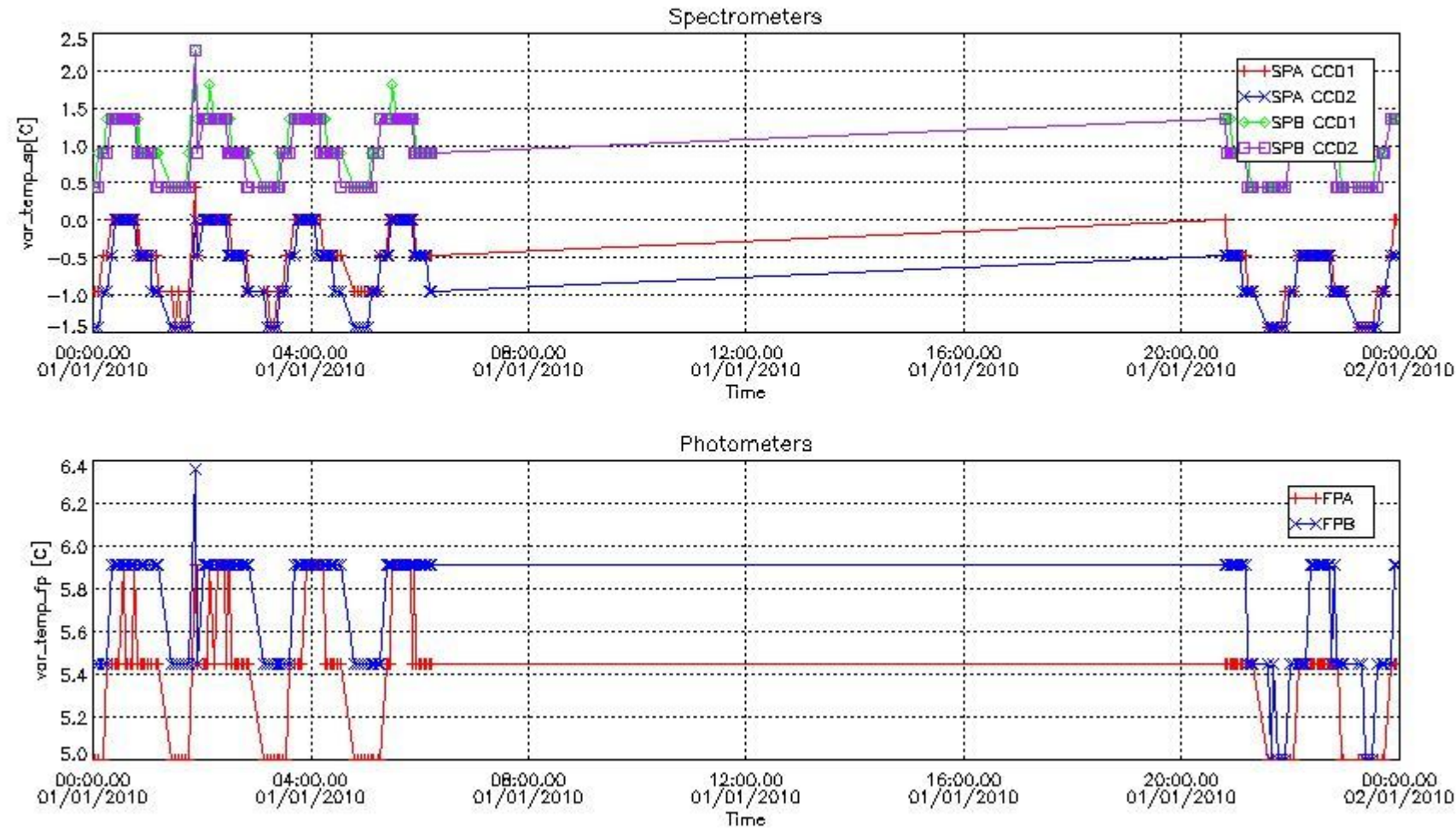
11	GOM_TRA_1PNPDE20100101_003806_000000522085_00346_40981_1856.N1	01-JAN-2010 00:38:06	Dark	51.500	41	Eps Car	1.8600	4100.0	103	40981	No
12	GOM_TRA_1PNPDE20100101_004115_000000462085_00346_40981_1857.N1	01-JAN-2010 00:41:15	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40981	No
13	GOM_TRA_1PNPDE20100101_004326_000000452085_00346_40981_1858.N1	01-JAN-2010 00:43:26	Dark	45.000	70	Zet Pup	2.2460	39000.	90	40981	No
14	GOM_TRA_1PNPDE20100101_004531_000000472085_00346_40981_1859.N1	01-JAN-2010 00:45:31	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	40981	No
15	GOM_TRA_1PNPDE20100101_004819_000000462085_00346_40981_1860.N1	01-JAN-2010 00:48:19	Straylight	45.500	23	21Eps CMa	1.5020	26000.	91	40981	No
16	GOM_TRA_1PNPDE20100101_004952_000000442085_00346_40981_1861.N1	01-JAN-2010 00:49:52	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	40981	No
17	GOM_TRA_1PNPDE20100101_005220_000000452085_00346_40981_1862.N1	01-JAN-2010 00:52:20	Straylight	45.000	1	9Alp CMa	-1.4400	11000.	90	40981	No
18	GOM_TRA_1PNPDE20100101_005449_000000362085_00346_40981_1863.N1	01-JAN-2010 00:54:49	Straylight	36.000	56	53Kap Ori	2.0650	30000.	72	40981	No
19	GOM_TRA_1PNPDE20100101_005720_000000422085_00346_40981_1864.N1	01-JAN-2010 00:57:20	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	40981	No
20	GOM_TRA_1PNPDE20100101_005951_000000552085_00346_40981_1865.N1	01-JAN-2010 00:59:51	Twilight_stray	55.000	14	58Alp Ori	0.87000	3000.0	110	40981	No
21	GOM_TRA_1PNPDE20100101_010308_000000532085_00346_40981_1866.N1	01-JAN-2010 01:03:08	Bright	53.000	44	24Gam Gem	1.9280	11000.	106	40981	No
22	GOM_TRA_1PNPDE20100101_010446_000000442085_00346_40981_1867.N1	01-JAN-2010 01:04:46	Bright	44.000	151	13Mu Gem	2.8900	3000.0	88	40981	No
23	GOM_TRA_1PNPDE20100101_010845_000000402085_00346_40981_1868.N1	01-JAN-2010 01:08:45	Bright	39.500	107	37The Aur	2.6490	11000.	79	40981	No
24	GOM_TRA_1PNPDE20100101_011051_000000422085_00346_40981_1869.N1	01-JAN-2010 01:10:51	Bright	42.000	6	13Alp Aur	0.080000	3400.0	84	40981	No
25	GOM_TRA_1PNPDE20100101_012730_000000402085_00346_40981_1870.N1	01-JAN-2010 01:27:30	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40981	No
26	GOM_TRA_1PNPDE20100101_013110_000000512085_00346_40981_1871.N1	01-JAN-2010 01:31:10	Bright	50.500	32	77Eps UMa	1.7630	11000.	101	40981	No
27	GOM_TRA_1PNPDE20100101_013427_000000662085_00346_40981_1872.N1	01-JAN-2010 01:34:27	Bright	66.000	39	85Eta UMa	1.8540	24000.	132	40981	No
28	GOM_TRA_1PNPDE20100101_013832_000000412085_00346_40981_1873.N1	01-JAN-2010 01:38:32	Bright	40.500	180	27Gam Boo	3.0400	8000.0	81	40981	No
29	GOM_TRA_1PNPDE20100101_014213_000000622085_00346_40981_1874.N1	01-JAN-2010 01:42:13	Bright	62.000	83		2.3780	11000.	124	40981	No
30	GOM_TRA_1PNPDE20100101_014529_000000542085_00346_40981_1875.N1	01-JAN-2010 01:45:29	Bright	53.500	3	16Alp Boo	-0.050000	4250.0	107	40981	No
31	GOM_TRA_1PNPDE20100101_015233_000000562085_00346_40981_1870.N1	01-JAN-2010 01:52:33	Bright	56.000	104	27Bet Lib	2.6140	13100.	112	40981	No
32	GOM_TRA_1PNPDE20100101_015513_000000442085_00346_40981_1871.N1	01-JAN-2010 01:55:13	Twilight_stray	43.500	122	9Alp2Lib	2.7470	9700.0	87	40981	No
33	GOM_TRA_1PNPDE20100101_020206_000000542085_00346_40981_1872.N1	01-JAN-2010 02:02:06	Dark	54.000	54	5The Cen	2.0550	4500.0	108	40981	No
34	GOM_TRA_1PNPDE20100101_020452_000000402085_00346_40981_1873.N1	01-JAN-2010 02:04:52	Dark	39.500	95	Zet Cen	2.5450	26000.	79	40981	No
35	GOM_TRA_1PNPDE20100101_020636_000000402085_00346_40981_1874.N1	01-JAN-2010 02:06:36	Dark	39.500	77	Eps Cen	2.3030	28000.	79	40981	No
36	GOM_TRA_1PNPDE20100101_020822_000000442085_00347_40982_1875.N1	01-JAN-2010 02:08:22	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40982	No
37	GOM_TRA_1PNPDE20100101_021432_000000482085_00347_40982_1876.N1	01-JAN-2010 02:14:32	Dark	48.000	113	Mu Vel	2.6920	5000.0	96	40982	No
38	GOM_TRA_1PNPDE20100101_021705_000000412085_00347_40982_1877.N1	01-JAN-2010 02:17:05	Dark	41.000	71	10t Car	2.2460	7700.0	82	40982	No
39	GOM_TRA_1PNPDE20100101_021900_000000462085_00347_40982_1878.N1	01-JAN-2010 02:19:00	Dark	46.000	46	Del Vel	1.9540	10600.	92	40982	No
40	GOM_TRA_1PNPDE20100101_022151_000000462085_00347_40982_1879.N1	01-JAN-2010 02:21:51	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40982	No
41	GOM_TRA_1PNPDE20100101_022403_000000492085_00347_40982_1880.N1	01-JAN-2010 02:24:03	Dark	48.500	70	Zet Pup	2.2460	39000.	97	40982	No
42	GOM_TRA_1PNPDE20100101_022607_000000482085_00347_40982_1881.N1	01-JAN-2010 02:26:07	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	40982	No
43	GOM_TRA_1PNPDE20100101_022855_000000472085_00347_40982_1882.N1	01-JAN-2010 02:28:55	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	40982	No
44	GOM_TRA_1PNPDE20100101_023028_000000452085_00347_40982_1883.N1	01-JAN-2010 02:30:28	Straylight	45.000	179	24Omi2CMa	3.0320	24000.	90	40982	No
45	GOM_TRA_1PNPDE20100101_023256_000000402085_00347_40982_1884.N1	01-JAN-2010 02:32:56	Straylight	39.500	1	9Alp CMa	-1.4400	11000.	79	40982	No
46	GOM_TRA_1PNPDE20100101_023525_000000422085_00347_40982_1885.N1	01-JAN-2010 02:35:25	Straylight	41.500	56	53Kap Ori	2.0650	30000.	83	40982	No
47	GOM_TRA_1PNPDE20100101_023756_000000422085_00347_40982_1886.N1	01-JAN-2010 02:37:56	Straylight	41.500	30	46Eps Ori	1.6940	30000.	83	40982	No
48	GOM_TRA_1PNPDE20100101_024027_000000512085_00347_40982_1887.N1	01-JAN-2010 02:40:27	Twilight_stray	50.500	14	58Alp Ori	0.87000	3000.0	101	40982	No
49	GOM_TRA_1PNPDE20100101_024343_000000502085_00347_40982_1888.N1	01-JAN-2010 02:43:43	Bright	50.000	44	24Gam Gem	1.9280	11000.	100	40982	No
50	GOM_TRA_1PNPDE20100101_024522_000000472085_00347_40982_1889.N1	01-JAN-2010 02:45:22	Bright	46.500	151	13Mu Gem	2.8900	3000.0	93	40982	No
51	GOM_TRA_1PNPDE20100101_024921_000000402085_00347_40982_1890.N1	01-JAN-2010 02:49:21	Bright	39.500	107	37The Aur	2.6490	11000.	79	40982	No
52	GOM_TRA_1PNPDE20100101_025127_000000432085_00347_40982_1891.N1	01-JAN-2010 02:51:27	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	40982	No
53	GOM_TRA_1PNPDE20100101_030805_000000402085_00347_40982_1892.N1	01-JAN-2010 03:08:05	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40982	No
54	GOM_TRA_1PNPDE20100101_031146_000000522085_00347_40982_1898.N1	01-JAN-2010 03:11:46	Bright	52.000	32	77Eps UMa	1.7630	11000.	104	40982	No
55	GOM_TRA_1PNPDE20100101_031503_000000662085_00347_40982_1899.N1	01-JAN-2010 03:15:03	Bright	66.000	39	85Eta UMa	1.8540	24000.	132	40982	No
56	GOM_TRA_1PNPDE20100101_031908_000000622085_00347_40982_1900.N1	01-JAN-2010 03:19:08	Bright	62.000	180	27Gam Boo	3.0400	8000.0	124	40982	No
57	GOM_TRA_1PNPDE20100101_032249_000000422085_00347_40982_1901.N1	01-JAN-2010 03:22:49	Bright	42.000	83		2.3780	11000.	84	40982	No
58	GOM_TRA_1PNPDE20100101_032606_000000542085_00347_40982_1902.N1	01-JAN-2010 03:26:06	Bright	53.500	3	16Alp Boo	-0.050000	4250.0	107	40982	No
59	GOM_TRA_1PNPDE20100101_032805_000000352085_00347_40982_1903.N1	01-JAN-2010 03:28:05	Bright	35.000	102	24Alp Ser	2.6000	4250.0	70	40982	No
60	GOM_TRA_1PNPDE20100101_033309_000000452085_00347_40982_1904.N1	01-JAN-2010 03:33:09	Bright	45.000	104	27Bet Lib	2.6140	13100.	90	40982	No
61	GOM_TRA_1PNPDE20100101_033549_000000452085_00347_40982_1905.N1	01-JAN-2010 03:35:49	Twilight_stray	44.500	122	9Alp2Lib	2.7470	9700.0	89	40982	No
62	GOM_TRA_1PNPDE20100101_034243_000000482085_00347_40982_1906.N1	01-JAN-2010 03:42:43	Dark	47.500	54	5The Cen	2.0550	4500.0	95	40982	No
63	GOM_TRA_1PNPDE20100101_034528_000000392085_00347_40982_1907.N1	01-JAN-2010 03:45:28	Dark	38.500	95	Zet Cen	2.5450	26000.	77	40982	No
64	GOM_TRA_1PNPDE20100101_034713_000000402085_00347_40982_1908.N1	01-JAN-2010 03:47:13	Dark	40.000	77	Eps Cen	2.3030	28000.	80	40982	No
65	GOM_TRA_1PNPDE20100101_034859_000000462085_00348_40983_1909.N1	01-JAN-2010 03:48:59	Dark	46.000	64	Gam Cen	2.2000	10600.	92	40983	No
66	GOM_TRA_1PNPDE20100101_035509_000000462085_00348_40983_1910.N1	01-JAN-2010 03:55:09	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40983	No
67	GOM_TRA_1PNPDE20100101_035742_000000452085_00348_40983_1911.N1	01-JAN-2010 03:57:42	Dark	45.000	71	10t Car	2.2460	7700.0	90	40983	No
68	GOM_TRA_1PNPDE20100101_035937_000000412085_00348_40983_1912.N1	01-JAN-2010 03:59:37	Dark	41.000	46	Del Vel	1.9540	10600.	82	40983	No
69	GOM_TRA_1PNPDE20100101_040228_000000432085_00348_40983_1913.N1	01-JAN-2010 04:02:28	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	40983	No



70	GOM_TRA_1PNPDE20100101_040439_000000472085_00348_40983_1914.N1	01-JAN-2010 04:04:39	Dark	47.000	70	Zet Pup	2.2460	39000.	94	40983	No
71	GOM_TRA_1PNPDE20100101_040644_000000482085_00348_40983_1915.N1	01-JAN-2010 04:06:44	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	40983	No
72	GOM_TRA_1PNPDE20100101_040932_000000452085_00348_40983_1916.N1	01-JAN-2010 04:09:32	Straylight	45.000	23	21Eps CMa	1.5020	26000.	90	40983	No
73	GOM_TRA_1PNPDE20100101_041104_000000442085_00348_40983_1917.N1	01-JAN-2010 04:11:04	Straylight	44.000	179	24Omi2CMa	3.0320	24000.	88	40983	No
74	GOM_TRA_1PNPDE20100101_041332_000000532085_00348_40983_1918.N1	01-JAN-2010 04:13:32	Straylight	53.000	1	9Alp CMa	-1.4400	11000.	106	40983	No
75	GOM_TRA_1PNPDE20100101_041602_000000432085_00348_40983_1919.N1	01-JAN-2010 04:16:02	Straylight	42.500	56	53Kap Ori	2.0650	30000.	85	40983	No
76	GOM_TRA_1PNPDE20100101_041832_000000422085_00348_40983_1920.N1	01-JAN-2010 04:18:32	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	40983	No
77	GOM_TRA_1PNPDE20100101_042103_000000532085_00348_40983_1921.N1	01-JAN-2010 04:21:03	Twilight_stray	53.000	14	58Alp Ori	0.87000	3000.0	106	40983	No
78	GOM_TRA_1PNPDE20100101_042419_000000502085_00348_40983_1922.N1	01-JAN-2010 04:24:19	Bright	50.000	44	24Gam Gem	1.9280	11000.	100	40983	No
79	GOM_TRA_1PNPDE20100101_042557_000000492085_00348_40983_1923.N1	01-JAN-2010 04:25:57	Bright	49.000	151	13Mu Gem	2.8900	3000.0	98	40983	No
80	GOM_TRA_1PNPDE20100101_042957_000000392085_00348_40983_1924.N1	01-JAN-2010 04:29:57	Bright	38.500	107	37The Aur	2.6490	11000.	77	40983	No
81	GOM_TRA_1PNPDE20100101_043203_000000432085_00348_40983_1925.N1	01-JAN-2010 04:32:03	Bright	42.500	6	13Alp Aur	0.080000	3400.0	85	40983	No
82	GOM_TRA_1PNPDE20100101_044841_000000402085_00348_40983_1922.N1	01-JAN-2010 04:48:41	Bright	40.000	60	7Bet UMi	2.0810	3950.0	80	40983	No
83	GOM_TRA_1PNPDE20100101_045221_000000482085_00348_40983_1923.N1	01-JAN-2010 04:52:21	Bright	47.500	32	77Eps UMa	1.7630	11000.	95	40983	No
84	GOM_TRA_1PNPDE20100101_045539_000000452085_00348_40983_1924.N1	01-JAN-2010 04:55:39	Bright	44.500	39	85Eta UMa	1.8540	24000.	89	40983	No
85	GOM_TRA_1PNPDE20100101_045944_000000402085_00348_40983_1925.N1	01-JAN-2010 04:59:44	Bright	39.500	180	27Gam Boo	3.0400	8000.0	79	40983	No
86	GOM_TRA_1PNPDE20100101_050325_000000622085_00348_40983_1926.N1	01-JAN-2010 05:03:25	Bright	62.000	83		2.3780	11000.	124	40983	No
87	GOM_TRA_1PNPDE20100101_050642_000000532085_00348_40983_1927.N1	01-JAN-2010 05:06:42	Bright	52.500	3	16Alp Boo	-0.050000	4250.0	105	40983	No
88	GOM_TRA_1PNPDE20100101_050842_000000382085_00348_40983_1928.N1	01-JAN-2010 05:08:42	Bright	38.000	102	24Alp Ser	2.6000	4250.0	76	40983	No
89	GOM_TRA_1PNPDE20100101_051346_000000562085_00348_40983_1929.N1	01-JAN-2010 05:13:46	Bright	56.000	104	27Bet Lib	2.6140	13100.	112	40983	No
90	GOM_TRA_1PNPDE20100101_051626_000000442085_00348_40983_1930.N1	01-JAN-2010 05:16:26	Twilight_stray	43.500	122	9Alp2Lib	2.7470	9700.0	87	40983	No
91	GOM_TRA_1PNPDE20100101_052319_000000552085_00348_40983_1931.N1	01-JAN-2010 05:23:19	Dark	55.000	54	5The Cen	2.0550	4500.0	110	40983	No
92	GOM_TRA_1PNPDE20100101_052605_000000422085_00348_40983_1932.N1	01-JAN-2010 05:26:05	Dark	42.000	95	Zet Cen	2.5450	26000.	84	40983	No
93	GOM_TRA_1PNPDE20100101_052749_000000402085_00348_40983_1933.N1	01-JAN-2010 05:27:49	Dark	40.000	77	Eps Cen	2.3030	28000.	80	40983	No
94	GOM_TRA_1PNPDE20100101_052935_000000442085_00349_40984_1934.N1	01-JAN-2010 05:29:35	Dark	43.500	64	Gam Cen	2.2000	10600.	87	40984	No
95	GOM_TRA_1PNPDE20100101_053545_000000462085_00349_40984_1935.N1	01-JAN-2010 05:35:45	Dark	46.000	113	Mu Vel	2.6920	5000.0	92	40984	No
96	GOM_TRA_1PNPDE20100101_053819_000000432085_00349_40984_1936.N1	01-JAN-2010 05:38:19	Dark	43.000	71	lot Car	2.2460	7700.0	86	40984	No
97	GOM_TRA_1PNPDE20100101_054013_000000472085_00349_40984_1937.N1	01-JAN-2010 05:40:13	Dark	46.500	46	Del Vel	1.9540	10600.	93	40984	No
98	GOM_TRA_1PNPDE20100101_054304_000000452085_00349_40984_1938.N1	01-JAN-2010 05:43:04	Dark	44.500	34	Gam2Vel	1.7930	23000.	89	40984	No
99	GOM_TRA_1PNPDE20100101_054516_000000482085_00349_40984_1939.N1	01-JAN-2010 05:45:16	Dark	47.500	70	Zet Pup	2.2460	39000.	95	40984	No
100	GOM_TRA_1PNPDE20100101_054720_000000472085_00349_40984_1940.N1	01-JAN-2010 05:47:20	Dark	47.000	117	Pi Pup	2.7060	3800.0	94	40984	No
101	GOM_TRA_1PNPDE20100101_055008_000000472085_00349_40984_1941.N1	01-JAN-2010 05:50:08	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	40984	No
102	GOM_TRA_1PNPDE20100101_055141_000000442085_00349_40984_1942.N1	01-JAN-2010 05:51:41	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	40984	No
103	GOM_TRA_1PNPDE20100101_055408_000000492085_00349_40984_1943.N1	01-JAN-2010 05:54:08	Straylight	49.000	1	9Alp CMa	-1.4400	11000.	98	40984	No
104	GOM_TRA_1PNPDE20100101_055638_000000432085_00349_40984_1944.N1	01-JAN-2010 05:56:38	Straylight	42.500	56	53Kap Ori	2.0650	30000.	85	40984	No
105	GOM_TRA_1PNPDE20100101_055908_000000422085_00349_40984_1945.N1	01-JAN-2010 05:59:08	Straylight	42.000	30	46Eps Ori	1.6940	30000.	84	40984	No
106	GOM_TRA_1PNPDE20100101_060139_000000512085_00349_40984_1946.N1	01-JAN-2010 06:01:39	Twilight_stray	51.000	14	58Alp Ori	0.87000	3000.0	102	40984	No
107	GOM_TRA_1PNPDE20100101_060455_000000502085_00349_40984_1947.N1	01-JAN-2010 06:04:55	Bright	50.000	44	24Gam Gem	1.9280	11000.	100	40984	No
108	GOM_TRA_1PNPDE20100101_060633_000000502085_00349_40984_1948.N1	01-JAN-2010 06:06:33	Bright	49.500	151	13Mu Gem	2.8900	3000.0	99	40984	No
109	GOM_TRA_1PNPDE20100101_061033_000000382085_00349_40984_1949.N1	01-JAN-2010 06:10:33	Bright	37.500	107	37The Aur	2.6490	11000.	75	40984	No
110	GOM_TRA_1PNPDE20100101_061239_000000392085_00349_40984_1950.N1	01-JAN-2010 06:12:39	Bright	38.500	6	13Alp Aur	0.080000	3400.0	77	40984	No
111	GOM_TRA_1PNPDE20100101_204832_000000462085_00358_40993_2009.N1	01-JAN-2010 20:48:32	Dark	46.000	34	Gam2Vel	1.7930	23000.	92	40993	No
112	GOM_TRA_1PNPDE20100101_205044_000000472085_00358_40993_2010.N1	01-JAN-2010 20:50:44	Dark	47.000	70	Zet Pup	2.2460	39000.	94	40993	No
113	GOM_TRA_1PNPDE20100101_205247_000000482085_00358_40993_2011.N1	01-JAN-2010 20:52:47	Dark	48.000	117	Pi Pup	2.7060	3800.0	96	40993	No
114	GOM_TRA_1PNPDE20100101_205534_000000472085_00358_40993_2012.N1	01-JAN-2010 20:55:34	Straylight	46.500	23	21Eps CMa	1.5020	26000.	93	40993	No
115	GOM_TRA_1PNPDE20100101_205706_000000442085_00358_40993_2013.N1	01-JAN-2010 20:57:06	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	40993	No
116	GOM_TRA_1PNPDE20100101_205933_000000492085_00358_40993_2014.N1	01-JAN-2010 20:59:33	Straylight	48.500	1	9Alp CMa	-1.4400	11000.	97	40993	No
117	GOM_TRA_1PNPDE20100101_210202_000000402085_00358_40993_2015.N1	01-JAN-2010 21:02:02	Straylight	39.500	56	53Kap Ori	2.0650	30000.	79	40993	No
118	GOM_TRA_1PNPDE20100101_210418_000000412085_00358_40993_2016.N1	01-JAN-2010 21:04:18	Straylight	40.500	33	50Zet Ori	1.7660	30000.	81	40993	No
119	GOM_TRA_1PNPDE20100101_210702_000000522085_00358_40993_2017.N1	01-JAN-2010 21:07:02	Twilight_stray	52.000	14	58Alp Ori	0.87000	3000.0	104	40993	No
120	GOM_TRA_1PNPDE20100101_211015_000000512085_00358_40993_2018.N1	01-JAN-2010 21:10:15	Bright	51.000	44	24Gam Gem	1.9280	11000.	102	40993	No
121	GOM_TRA_1PNPDE20100101_211154_000000472085_00358_40993_2019.N1	01-JAN-2010 21:11:54	Bright	47.000	151	13Mu Gem	2.8900	3000.0	94	40993	No
122	GOM_TRA_1PNPDE20100101_211554_000000382085_00358_40993_2020.N1	01-JAN-2010 21:15:54	Bright	37.500	107	37The Aur	2.6490	11000.	75	40993	No
123	GOM_TRA_1PNPDE20100101_211801_000000422085_00358_40993_2021.N1	01-JAN-2010 21:18:01	Bright	41.500	6	13Alp Aur	0.080000	3400.0	83	40993	No
124	GOM_TRA_1PNPDE20100101_213440_000000352085_00358_40993_2022.N1	01-JAN-2010 21:34:40	Bright	34.500	60	7Bet UMi	2.0810	3950.0	69	40993	No
125	GOM_TRA_1PNPDE20100101_213816_000000472085_00358_40993_2023.N1	01-JAN-2010 21:38:16	Bright	46.500	32	77Eps UMa	1.7630	11000.	93	40993	No
126	GOM_TRA_1PNPDE20100101_214136_000000532085_00358_40993_2024.N1	01-JAN-2010 21:41:36	Bright	53.000	39	85Eta UMa	1.8540	24000.	106	40993	No
127	GOM_TRA_1PNPDE20100101_214543_000000632085_00358_40993_2025.N1	01-JAN-2010 21:45:43	Bright	63.000	180	27Gam Boo	3.0400	8000.0	126	40993	No
128	GOM_TRA_1PNPDE20100101_214927_000000422085_00358_40993_2026.N1	01-JAN-2010 21:49:27	Bright	41.500	83		2.3780	11000.	83	40993	No

129	GOM_TRA_1PNPDE20100101_215444_000000362085_00358_40993_2027.N1	01-JAN-2010 21:54:44	Bright	35.500	102	24Alp Ser	2.6000	4250.0	71	40993	No
130	GOM_TRA_1PNPDE20100101_215950_000000362085_00358_40993_2028.N1	01-JAN-2010 21:59:50	Bright	36.000	104	27Bet Lib	2.6140	13100.	72	40993	No
131	GOM_TRA_1PNPDE20100101_220231_000000442085_00358_40993_2026.N1	01-JAN-2010 22:02:31	Twilight	44.000	122	9Alp2Lib	2.7470	9700.0	88	40993	No
132	GOM_TRA_1PNPDE20100101_220926_000000532085_00358_40993_2027.N1	01-JAN-2010 22:09:26	Dark	53.000	54	5The Cen	2.0550	4500.0	106	40993	No
133	GOM_TRA_1PNPDE20100101_221210_000000422085_00358_40993_2028.N1	01-JAN-2010 22:12:10	Dark	41.500	95	Zet Cen	2.5450	26000.	83	40993	No
134	GOM_TRA_1PNPDE20100101_221355_000000392085_00359_40994_2029.N1	01-JAN-2010 22:13:55	Dark	39.000	77	Eps Cen	2.3030	28000.	78	40994	No
135	GOM_TRA_1PNPDE20100101_221543_000000442085_00359_40994_2030.N1	01-JAN-2010 22:15:43	Dark	44.000	64	Gam Cen	2.2000	10600.	88	40994	No
136	GOM_TRA_1PNPDE20100101_222154_000000492085_00359_40994_2031.N1	01-JAN-2010 22:21:54	Dark	48.500	113	Mu Vel	2.6920	5000.0	97	40994	No
137	GOM_TRA_1PNPDE20100101_222423_000000432085_00359_40994_2032.N1	01-JAN-2010 22:24:23	Dark	43.000	71	lot Car	2.2460	7700.0	86	40994	No
138	GOM_TRA_1PNPDE20100101_222618_000000422085_00359_40994_2033.N1	01-JAN-2010 22:26:18	Dark	41.500	46	Del Vel	1.9540	10600.	83	40994	No
139	GOM_TRA_1PNPDE20100101_222908_000000432085_00359_40994_2034.N1	01-JAN-2010 22:29:08	Dark	43.000	34	Gam2Vel	1.7930	23000.	86	40994	No
140	GOM_TRA_1PNPDE20100101_223120_000000462085_00359_40994_2035.N1	01-JAN-2010 22:31:20	Dark	46.000	70	Zet Pup	2.2460	39000.	92	40994	No
141	GOM_TRA_1PNPDE20100101_223323_000000492085_00359_40994_2036.N1	01-JAN-2010 22:33:23	Dark	48.500	117	Pi Pup	2.7060	3800.0	97	40994	No
142	GOM_TRA_1PNPDE20100101_223610_000000462085_00359_40994_2037.N1	01-JAN-2010 22:36:10	Straylight	46.000	23	21Eps CMa	1.5020	26000.	92	40994	No
143	GOM_TRA_1PNPDE20100101_223742_000000442085_00359_40994_2038.N1	01-JAN-2010 22:37:42	Straylight	43.500	179	24Omi2CMa	3.0320	24000.	87	40994	No
144	GOM_TRA_1PNPDE20100101_224009_000000402085_00359_40994_2039.N1	01-JAN-2010 22:40:09	Straylight	40.000	1	9Alp CMa	-1.4400	11000.	80	40994	No
145	GOM_TRA_1PNPDE20100101_224238_000000362085_00359_40994_2040.N1	01-JAN-2010 22:42:38	Straylight	36.000	56	53Kap Ori	2.0650	30000.	72	40994	No
146	GOM_TRA_1PNPDE20100101_224454_000000422085_00359_40994_2041.N1	01-JAN-2010 22:44:54	Straylight	42.000	33	50Zet Ori	1.7660	30000.	84	40994	No
147	GOM_TRA_1PNPDE20100101_224738_000000552085_00359_40994_2042.N1	01-JAN-2010 22:47:38	Twilight	55.000	14	58Alp Ori	0.87000	3000.0	110	40994	No
148	GOM_TRA_1PNPDE20100101_225051_000000522085_00359_40994_2043.N1	01-JAN-2010 22:50:51	Bright	51.500	44	24Gam Gem	1.9280	11000.	103	40994	No
149	GOM_TRA_1PNPDE20100101_225229_000000472085_00359_40994_2044.N1	01-JAN-2010 22:52:29	Bright	47.000	151	13Mu Gem	2.8900	3000.0	94	40994	No
150	GOM_TRA_1PNPDE20100101_225630_000000382085_00359_40994_2045.N1	01-JAN-2010 22:56:30	Bright	38.000	107	37The Aur	2.6490	11000.	76	40994	No
151	GOM_TRA_1PNPDE20100101_225837_000000452085_00359_40994_2046.N1	01-JAN-2010 22:58:37	Bright	44.500	6	13Alp Aur	0.080000	3400.0	89	40994	No
152	GOM_TRA_1PNPDE20100101_231515_000000402085_00359_40994_2047.N1	01-JAN-2010 23:15:15	Bright	39.500	60	7Bet UMi	2.0810	3950.0	79	40994	No
153	GOM_TRA_1PNPDE20100101_231852_000000502085_00359_40994_2048.N1	01-JAN-2010 23:18:52	Bright	50.000	32	77Eps UMa	1.7630	11000.	100	40994	No
154	GOM_TRA_1PNPDE20100101_232212_000000462085_00359_40994_2049.N1	01-JAN-2010 23:22:12	Bright	45.500	39	85Eta UMa	1.8540	24000.	91	40994	No
155	GOM_TRA_1PNPDE20100101_232619_000000422085_00359_40994_2050.N1	01-JAN-2010 23:26:19	Bright	41.500	180	27Gam Boo	3.0400	8000.0	83	40994	No
156	GOM_TRA_1PNPDE20100101_233003_000000622085_00359_40994_2051.N1	01-JAN-2010 23:30:03	Bright	62.000	83		2.3780	11000.	124	40994	No
157	GOM_TRA_1PNPDE20100101_233520_000000542085_00359_40994_2052.N1	01-JAN-2010 23:35:20	Bright	54.000	102	24Alp Ser	2.6000	4250.0	108	40994	No
158	GOM_TRA_1PNPDE20100101_234026_000000562085_00359_40994_2053.N1	01-JAN-2010 23:40:26	Bright	55.500	104	27Bet Lib	2.6140	13100.	111	40994	No
159	GOM_TRA_1PNPDE20100101_234307_000000462085_00359_40994_2045.N1	01-JAN-2010 23:43:07	Twilight	45.500	122	9Alp2Lib	2.7470	9700.0	91	40994	No
160	GOM_TRA_1PNPDE20100101_235002_000000522085_00359_40994_2046.N1	01-JAN-2010 23:50:02	Dark	52.000	54	5The Cen	2.0550	4500.0	104	40994	No
161	GOM_TRA_1PNPDE20100101_235431_000000442085_00360_40995_2047.N1	01-JAN-2010 23:54:31	Dark	44.000	77	Eps Cen	2.3030	28000.	88	40995	No
162	GOM_TRA_1PNPDE20100101_235619_000000462085_00360_40995_2048.N1	01-JAN-2010 23:56:19	Dark	45.500	64	Gam Cen	2.2000	10600.	91	40995	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.

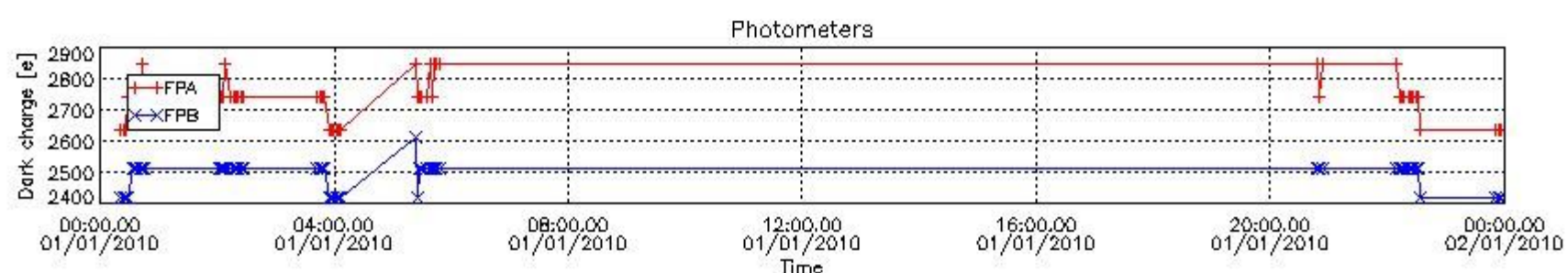
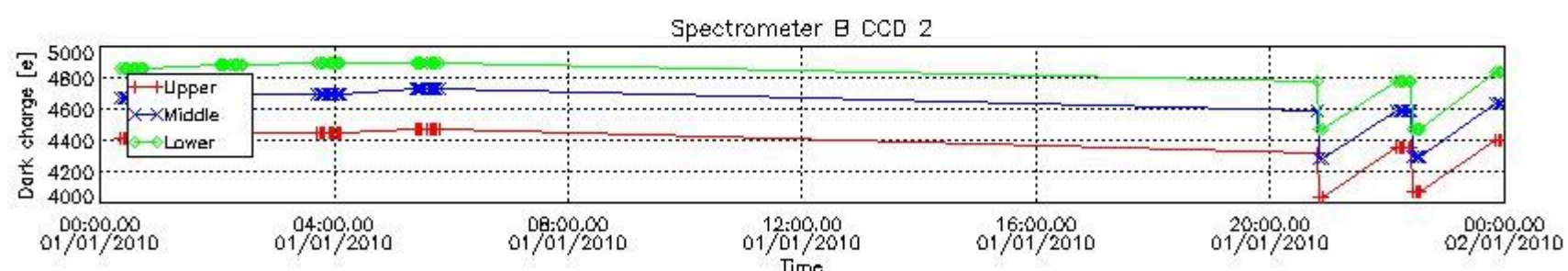
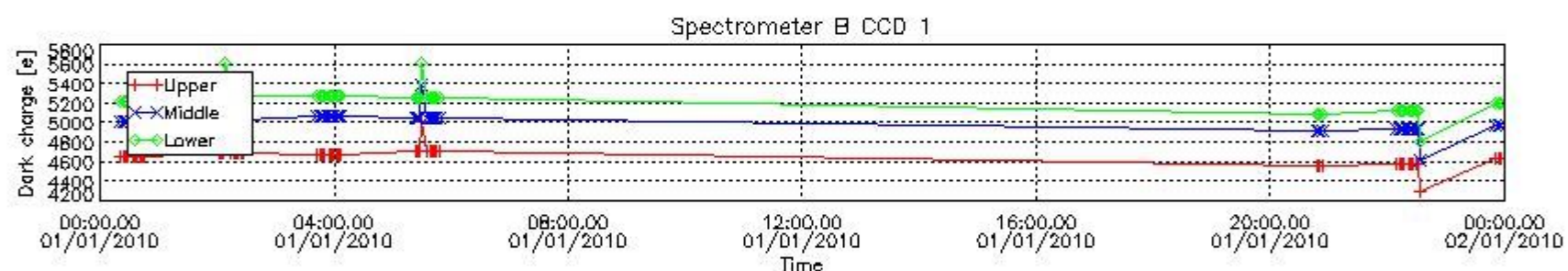
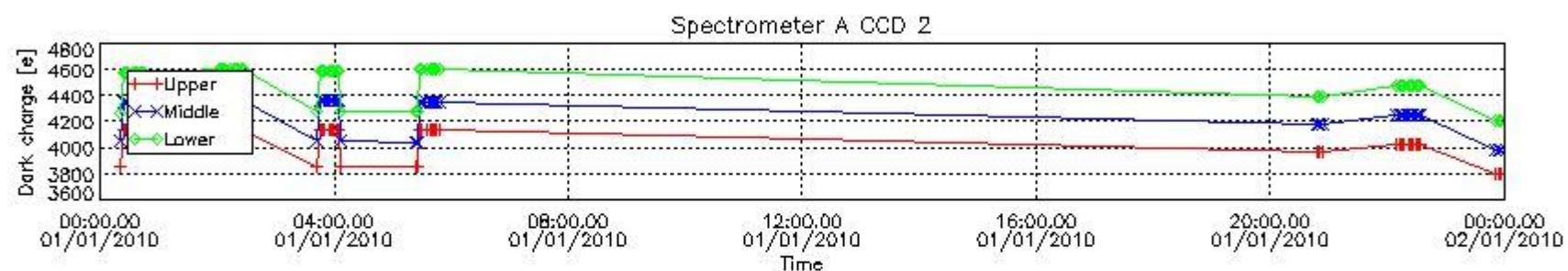
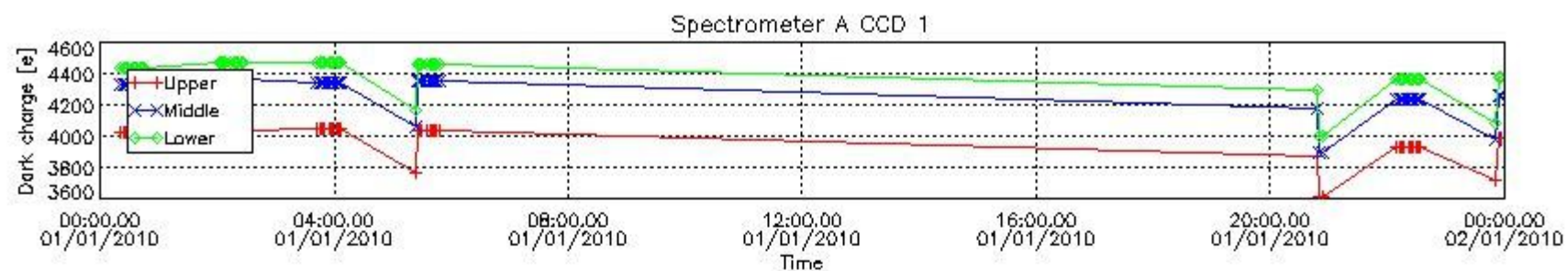
##### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20100101_204832_000000462085_00358_40993_2009.N1	DC map used
GOM_TRA_1PNPDE20100101_205044_000000472085_00358_40993_2010.N1	DC map used
GOM_TRA_1PNPDE20100101_205247_000000482085_00358_40993_2011.N1	DC map used
GOM_TRA_1PNPDE20100101_205534_000000472085_00358_40993_2012.N1	DC map used
GOM_TRA_1PNPDE20100101_205706_000000442085_00358_40993_2013.N1	DC map used
GOM_TRA_1PNPDE20100101_205933_000000492085_00358_40993_2014.N1	DC map used
GOM_TRA_1PNPDE20100101_210202_000000402085_00358_40993_2015.N1	DC map used
GOM_TRA_1PNPDE20100101_210418_000000412085_00358_40993_2016.N1	DC map used
GOM_TRA_1PNPDE20100101_210702_000000522085_00358_40993_2017.N1	DC map used
GOM_TRA_1PNPDE20100101_211015_000000512085_00358_40993_2018.N1	DC map used
GOM_TRA_1PNPDE20100101_211154_000000472085_00358_40993_2019.N1	DC map used
GOM_TRA_1PNPDE20100101_211554_000000382085_00358_40993_2020.N1	DC map used
GOM_TRA_1PNPDE20100101_211801_000000422085_00358_40993_2021.N1	DC map used
GOM_TRA_1PNPDE20100101_213440_000000352085_00358_40993_2022.N1	DC map used



GOM_TRA_1PNPDE20100101_213816_000000472085_00358_40993_2023.N1	DC map used
GOM_TRA_1PNPDE20100101_214136_000000532085_00358_40993_2024.N1	DC map used
GOM_TRA_1PNPDE20100101_214543_000000632085_00358_40993_2025.N1	DC map used
GOM_TRA_1PNPDE20100101_214927_000000422085_00358_40993_2026.N1	DC map used
GOM_TRA_1PNPDE20100101_215444_000000362085_00358_40993_2027.N1	DC map used
GOM_TRA_1PNPDE20100101_215950_000000362085_00358_40993_2028.N1	DC map used

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



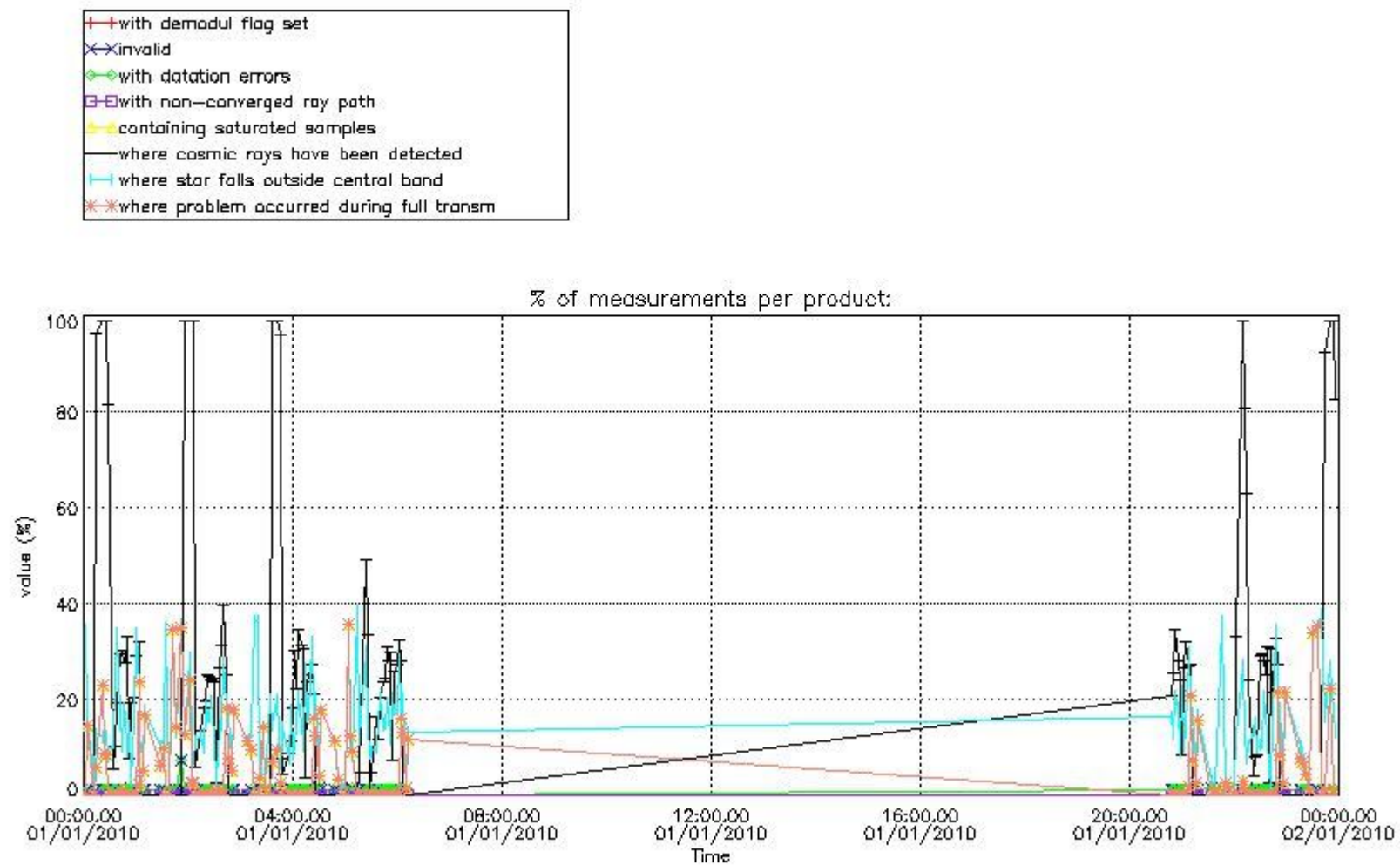
## 5. Demodulation flag and quality information monitoring

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

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

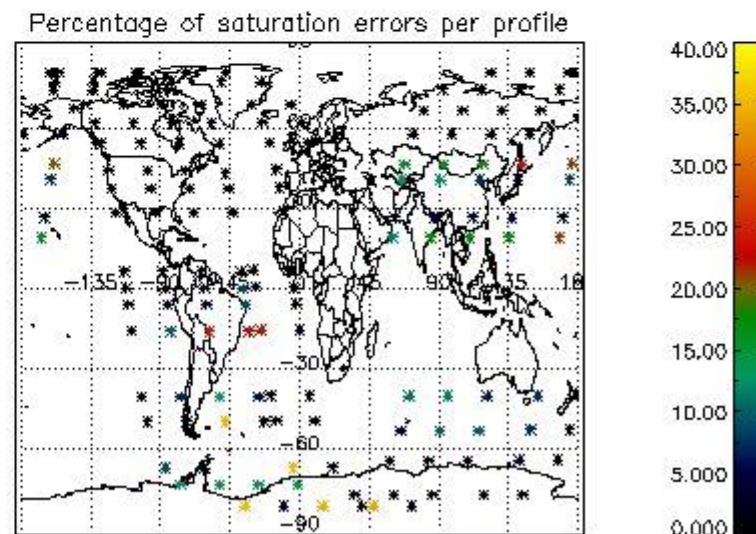
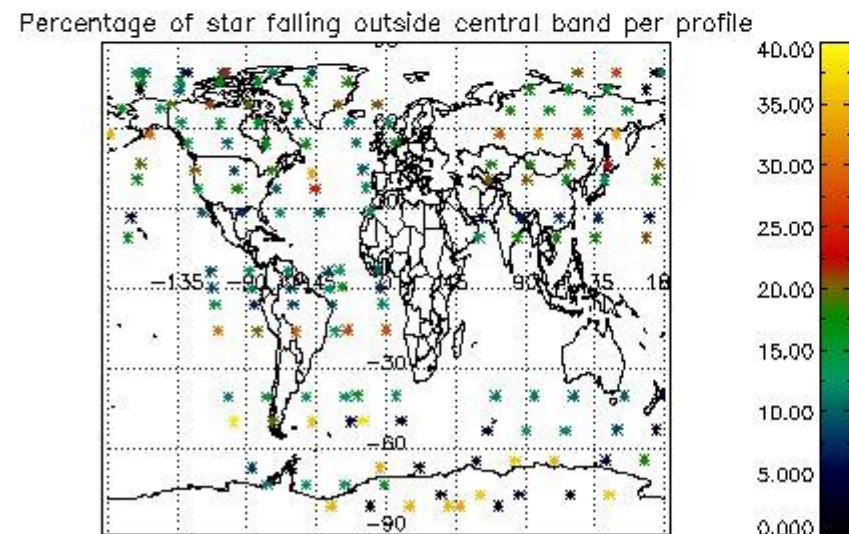
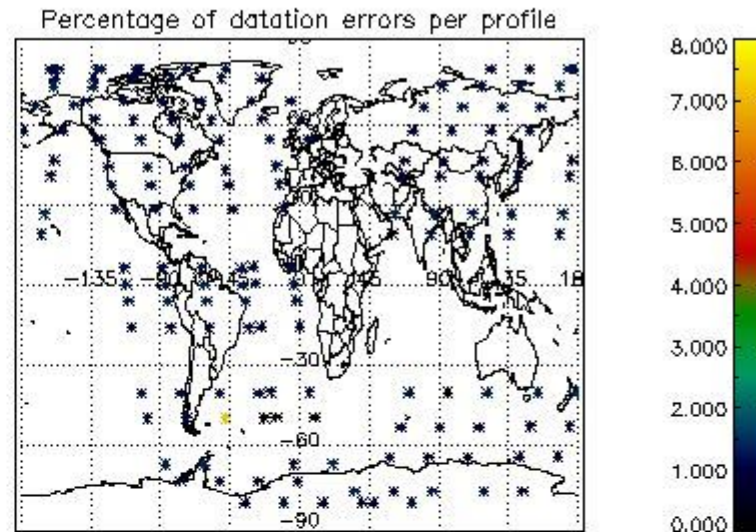
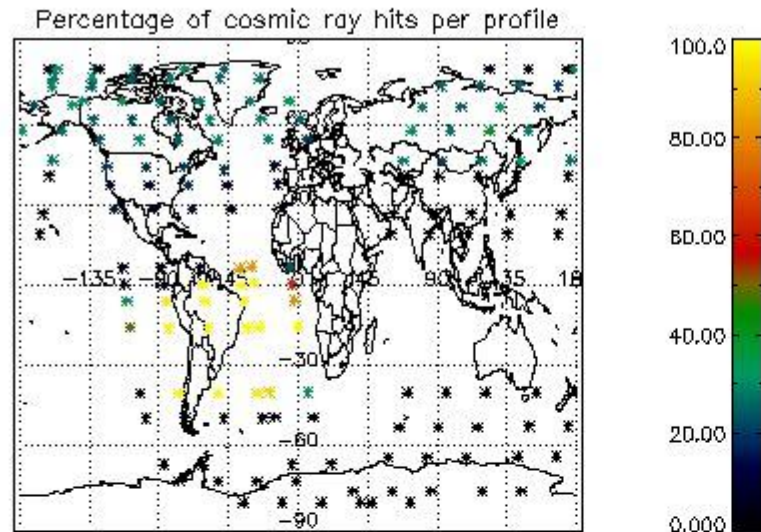
At least one measurement with demodulation flag set:	45.0617 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

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



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





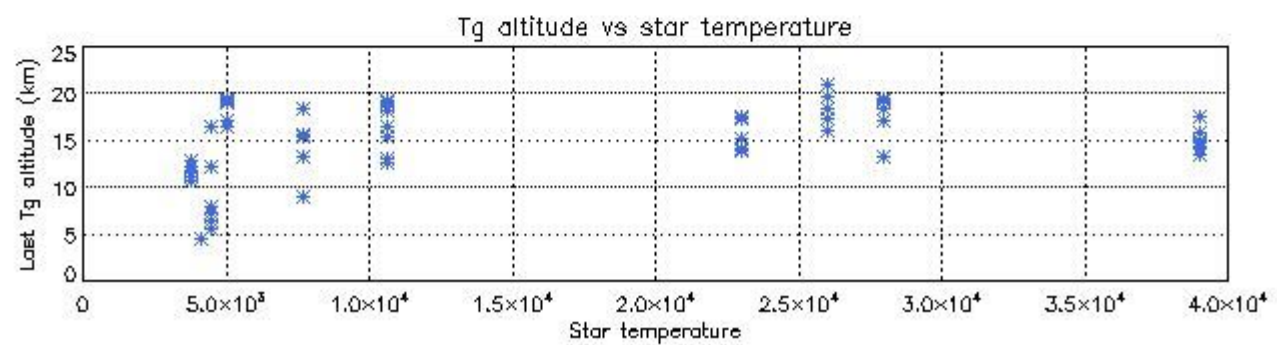
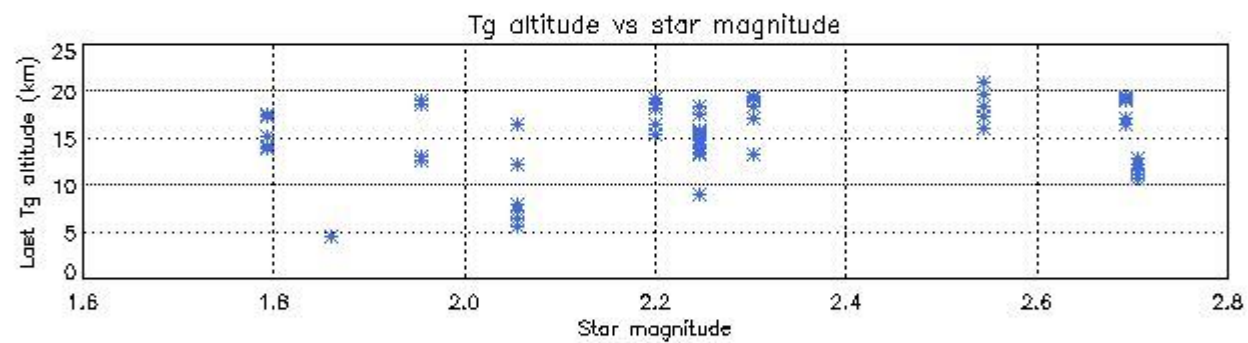
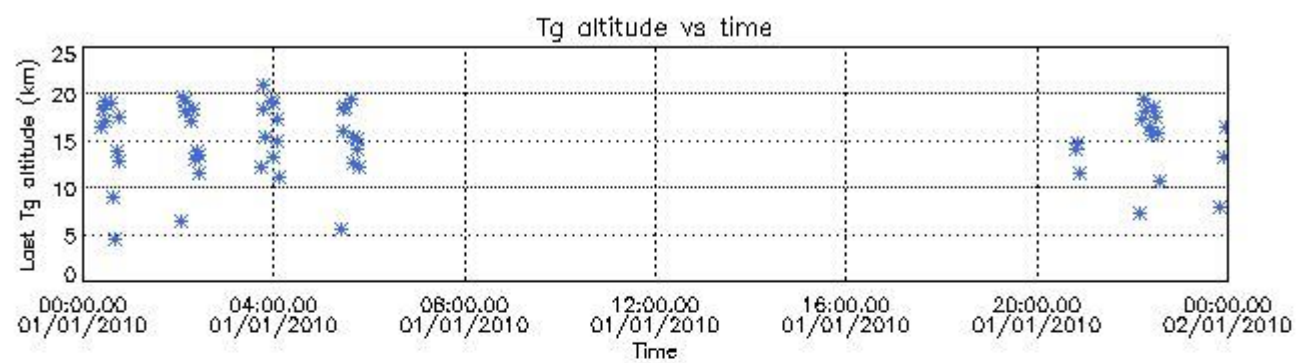
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	15.054	15.014	NaN
St. deviation:	3.8985	6.9707	NaN
Maximum:	21.008	27.059	NaN
Minimum:	4.4533	3.7117	NaN
Number of data:	56.000	64.000	NaN

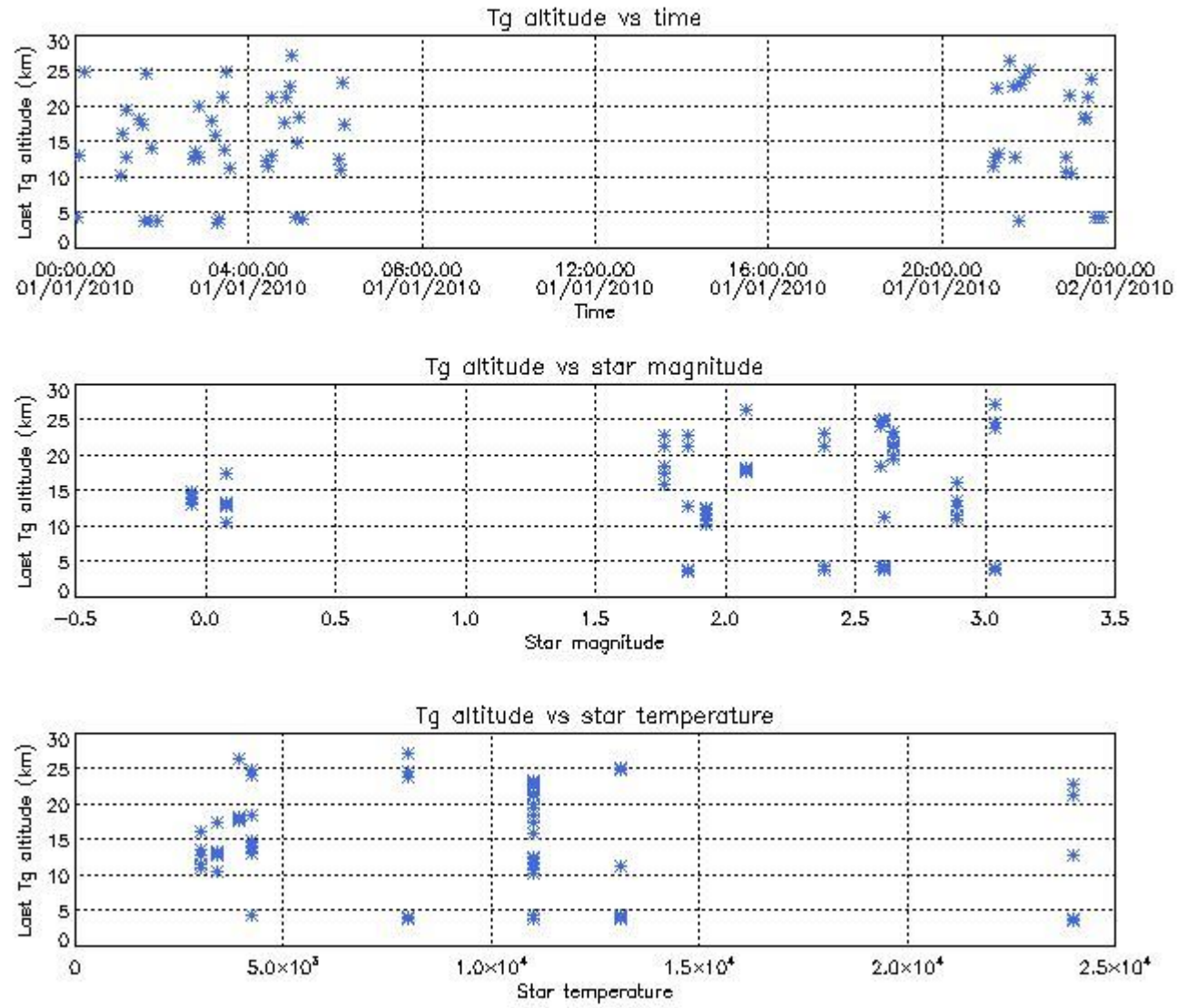
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

Tangent altitude at which the star is lost



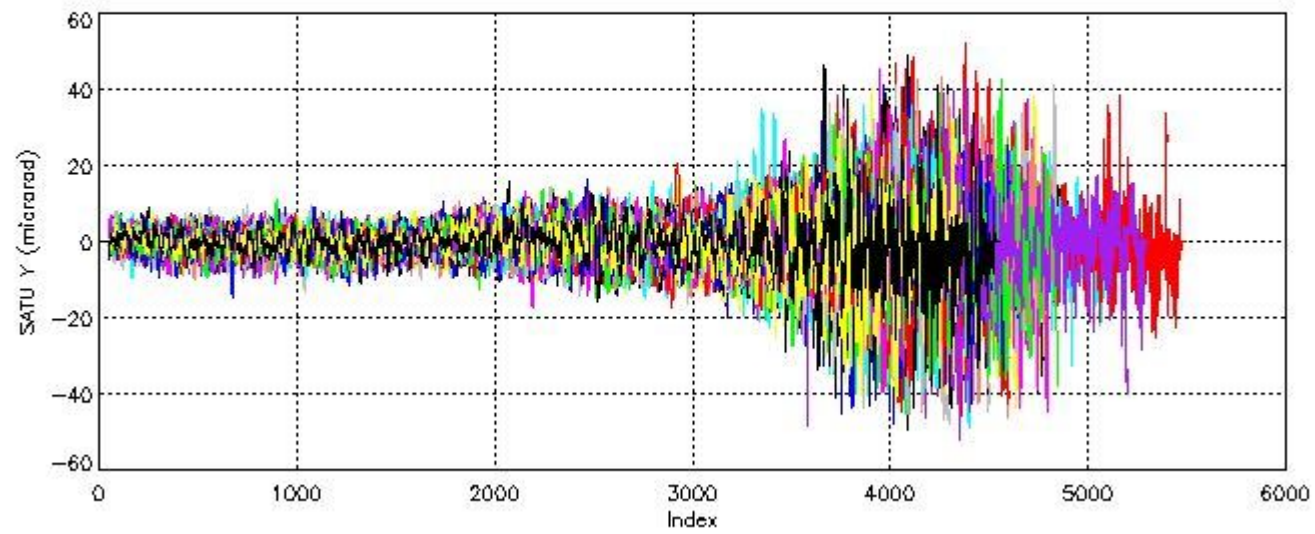
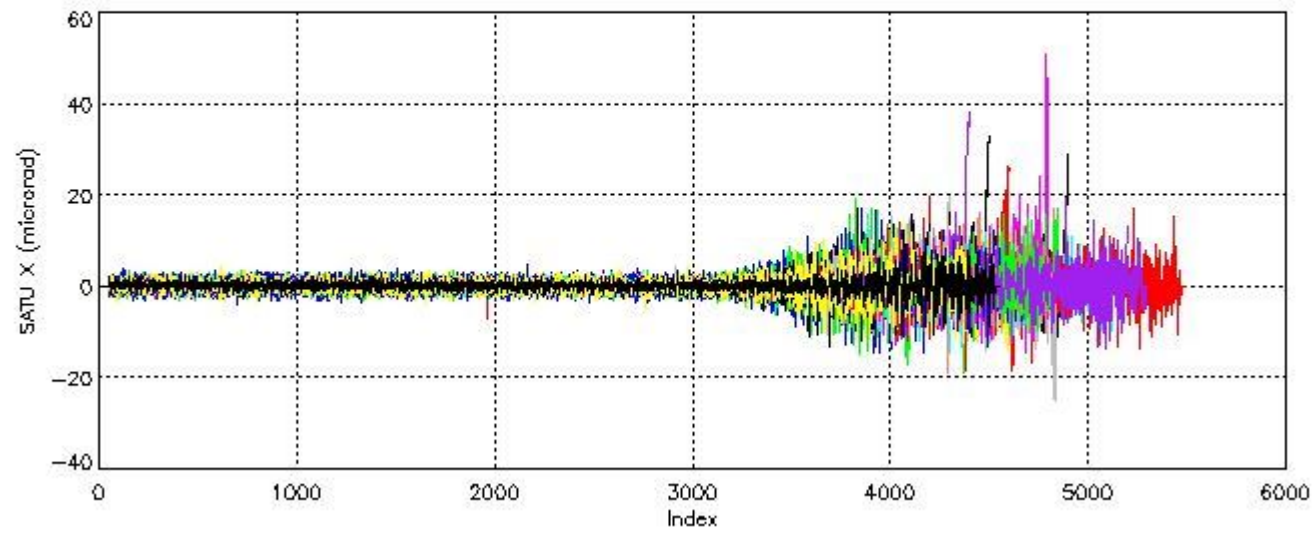
## 7. Star Acquisition and Tracking Unit (SATU)

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:	0.21689	0.047945	0.16739	-0.17402
St. deviation:	0.61507	2.4451	0.66893	2.6761
Maximum:	4.1000	10.800	5.8000	13.100
Minimum:	-3.9000	-14.700	-5.3000	-12.100

Number of data:	54300.	54300.	62550.	62550.
-----------------	--------	--------	--------	--------

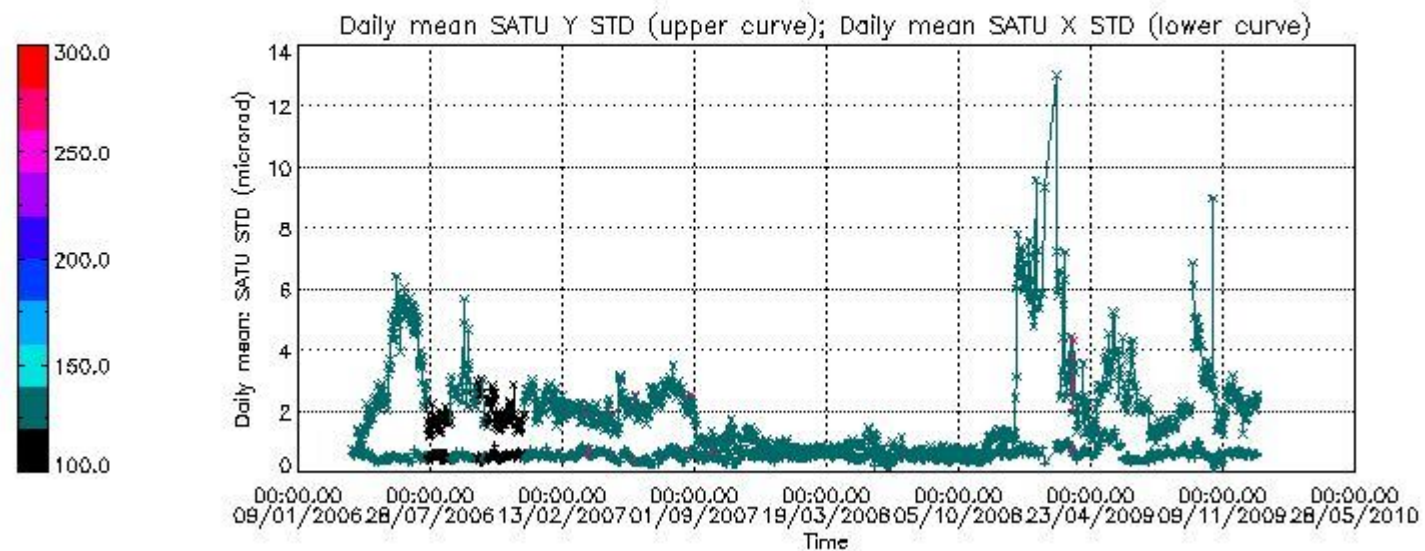
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

The long term trend of the SATU 'X' and 'Y' standard deviations should be constant during the whole mission.

The colorbar represents the start tangent altitude (km) of the occultations.

Upper curve: STD of SATU Y axis

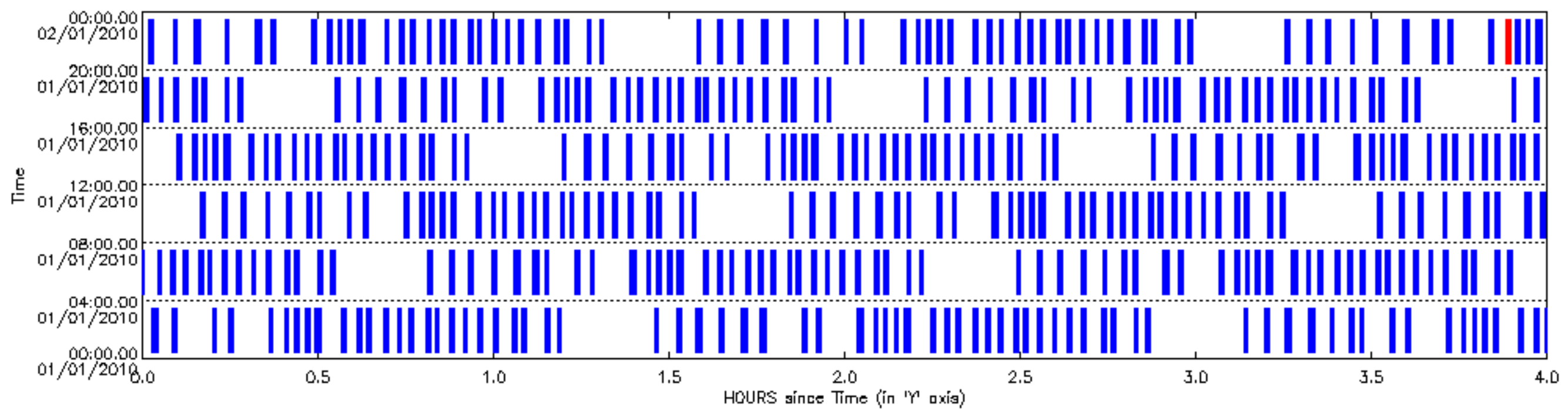
Lower curve: STD of SATU X axis



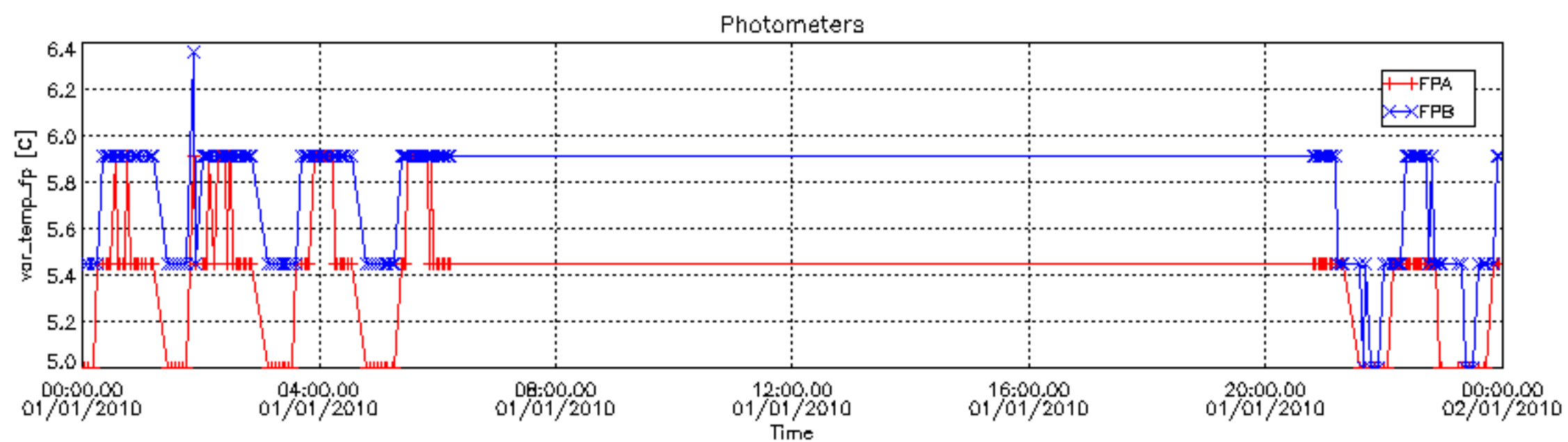
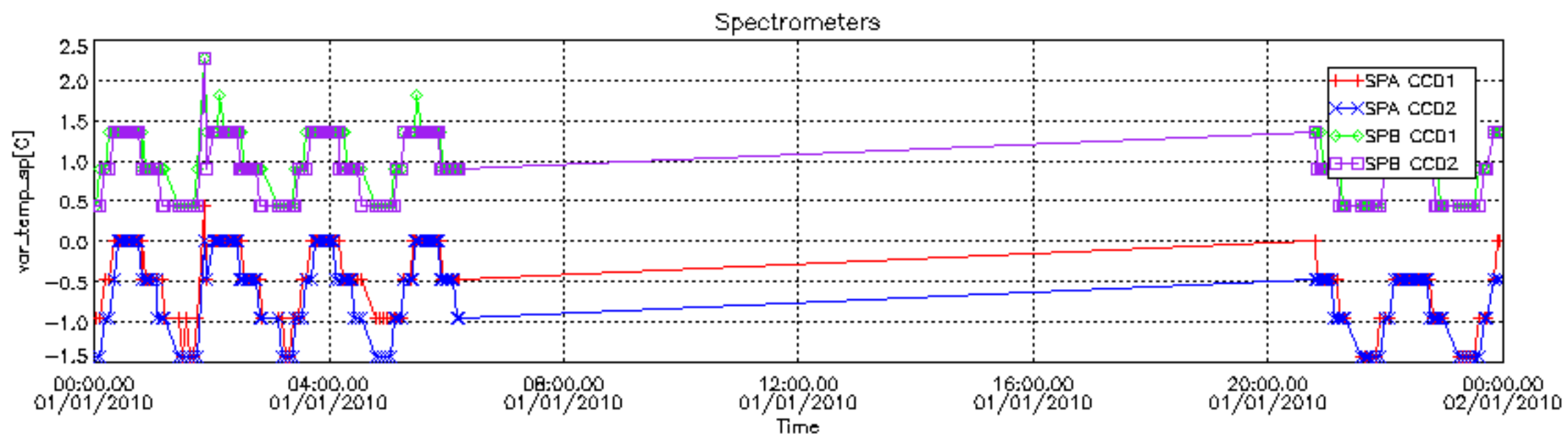
### 8. Auxiliary Data Files used for the production reported in section 2.4

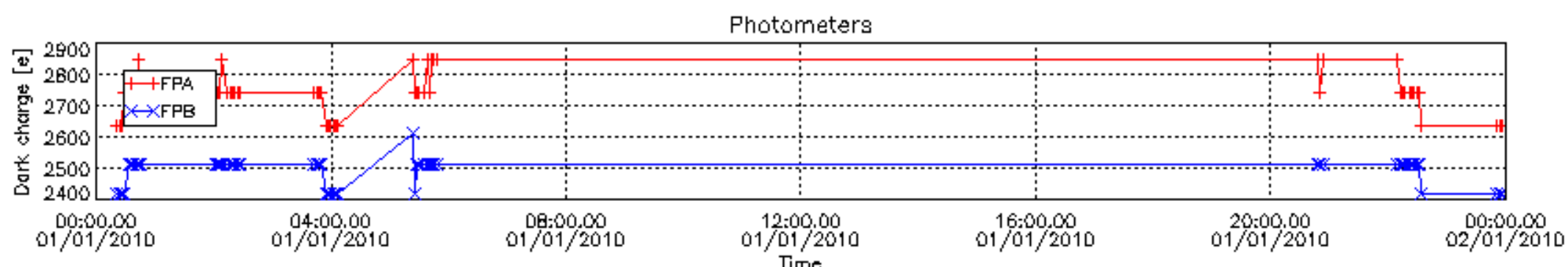
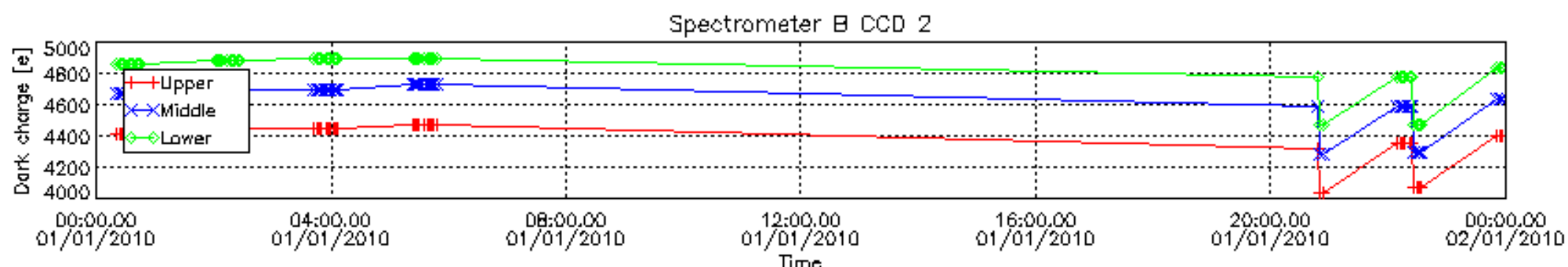
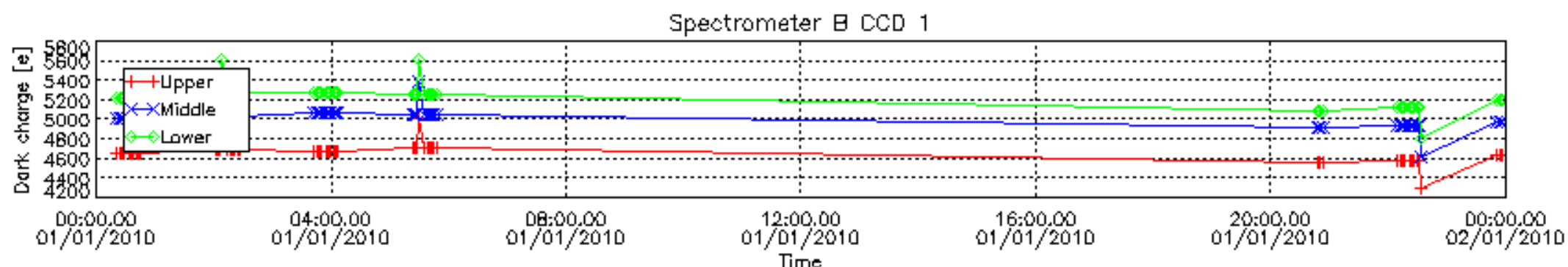
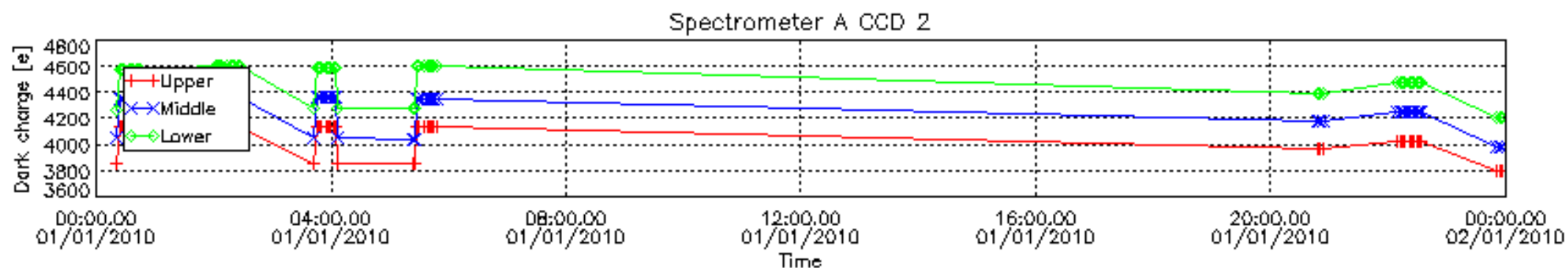
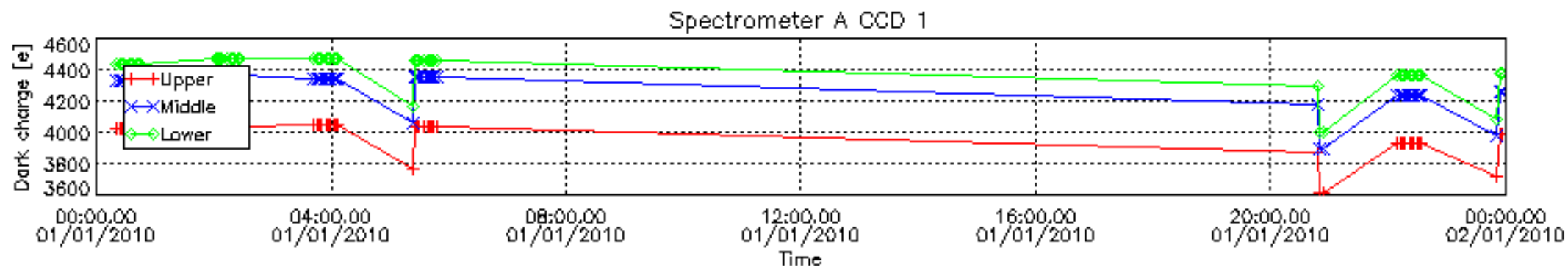
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

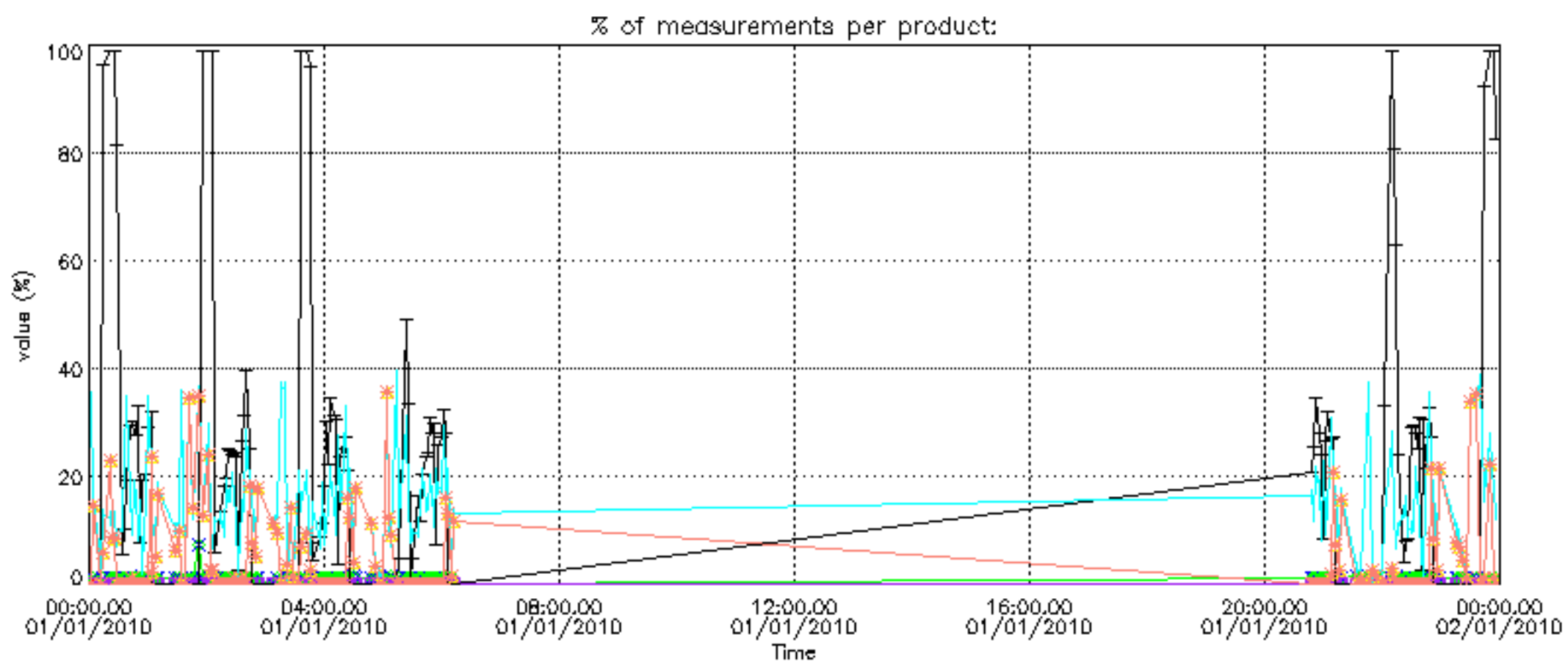
Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000	1	01-JAN-2010 00:01:37
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20091229_111816_20091227_000000_20500101_000000	1	01-JAN-2010 00:01:37
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000	1	01-JAN-2010 00:01:37
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	01-JAN-2010 00:01:37
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000	1	01-JAN-2010 00:01:37
ECMWF_FILE	AUX_ECF_AXNECM20091231_062115_20091231_210000_20100101_090000	1	01-JAN-2010 00:01:37
ECMWF_FILE	AUX_ECF_AXNECM20091231_180115_20100101_030000_20100101_150000	54	01-JAN-2010 03:11:46
ECMWF_FILE	AUX_ECA_AXNECM20100101_060111_20091231_210000_20100101_090000	82	01-JAN-2010 04:48:41
ECMWF_FILE	AUX_ECF_AXNECM20100101_062110_20100101_150000_20100102_030000	111	01-JAN-2010 20:48:32
ECMWF_FILE	AUX_ECF_AXNECM20100101_062111_20100101_210000_20100102_090000	131	01-JAN-2010 22:02:31
OPTIONAL_ECMWF_FILE	MISSING	1	01-JAN-2010 00:01:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20091231_223129_000057382085_00344_40979_9475.N1	1	01-JAN-2010 00:01:37
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100101_001226_000054192085_00345_40980_9476.N1	4	01-JAN-2010 00:14:36
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100101_010110_20091231_192411_20100110_205025	31	01-JAN-2010 01:52:33
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100101_030746_000054192085_00347_40982_9478.N1	54	01-JAN-2010 03:11:46
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20100101_010110_20091231_192411_20100110_205025	82	01-JAN-2010 04:48:41
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100101_204505_000041442085_00358_40993_9480.N1	111	01-JAN-2010 20:48:32
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100101_215928_000057382085_00358_40993_9481.N1	131	01-JAN-2010 22:02:31
ORBIT_DATA_FILE	DOR_NAV_OPNPDE20100101_234025_000057382085_00359_40994_9482.N1	159	01-JAN-2010 23:43:07





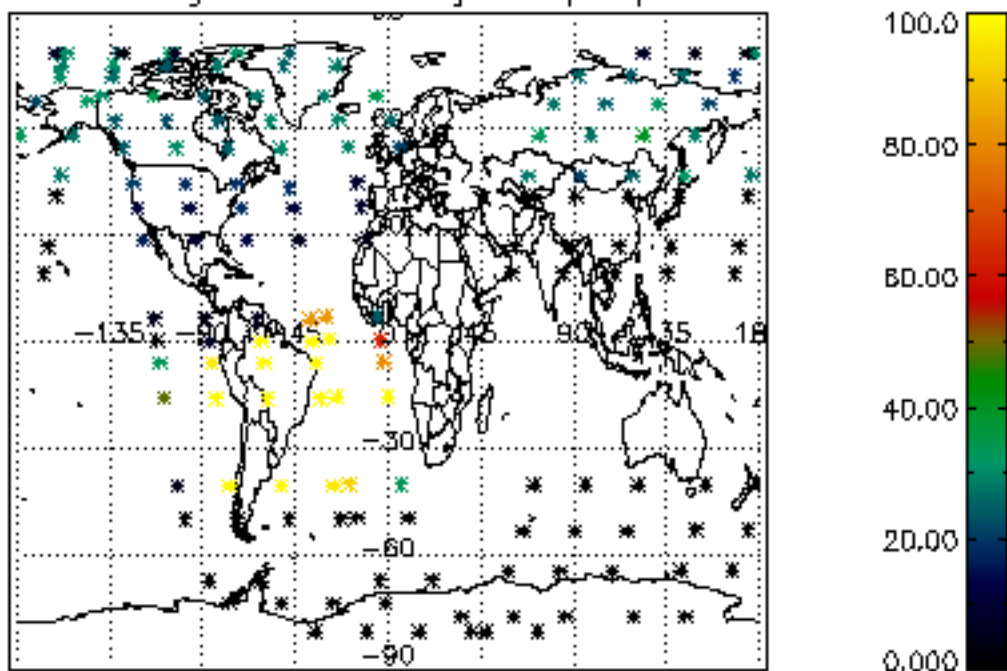




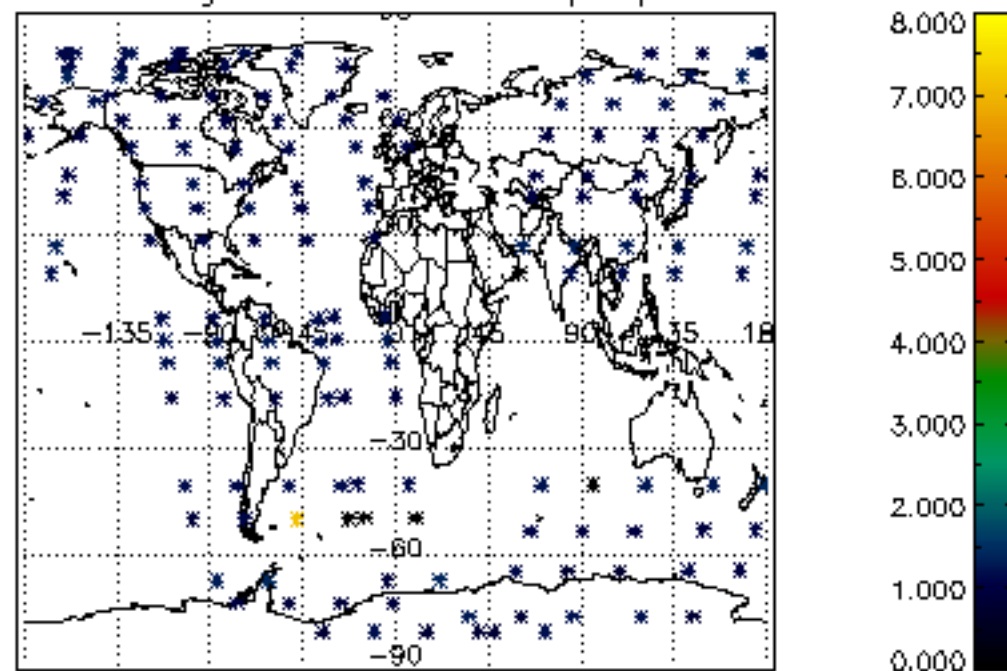




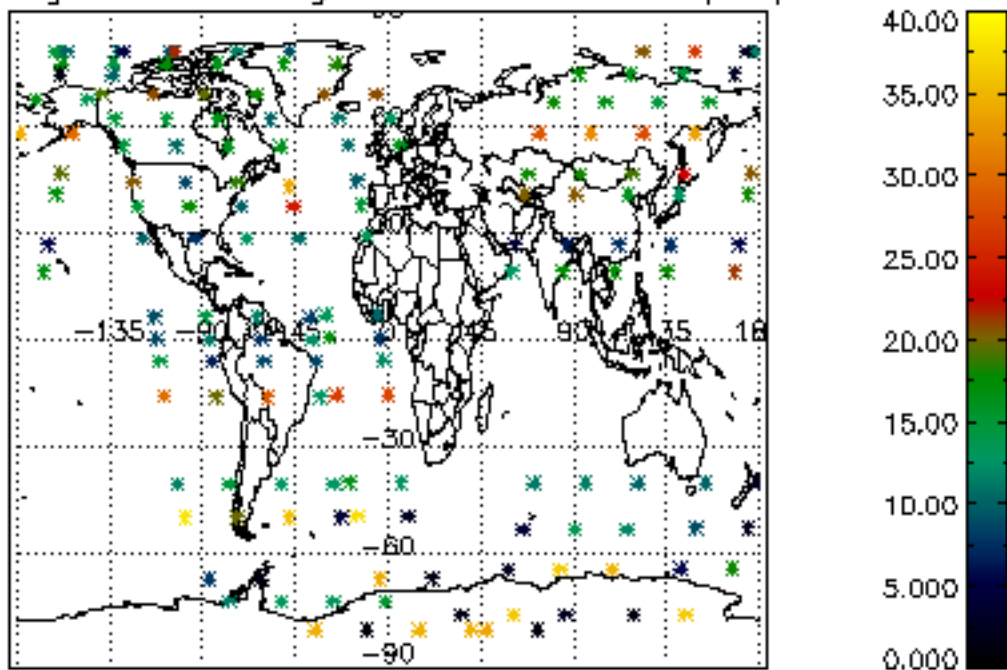
Percentage of cosmic ray hits per profile



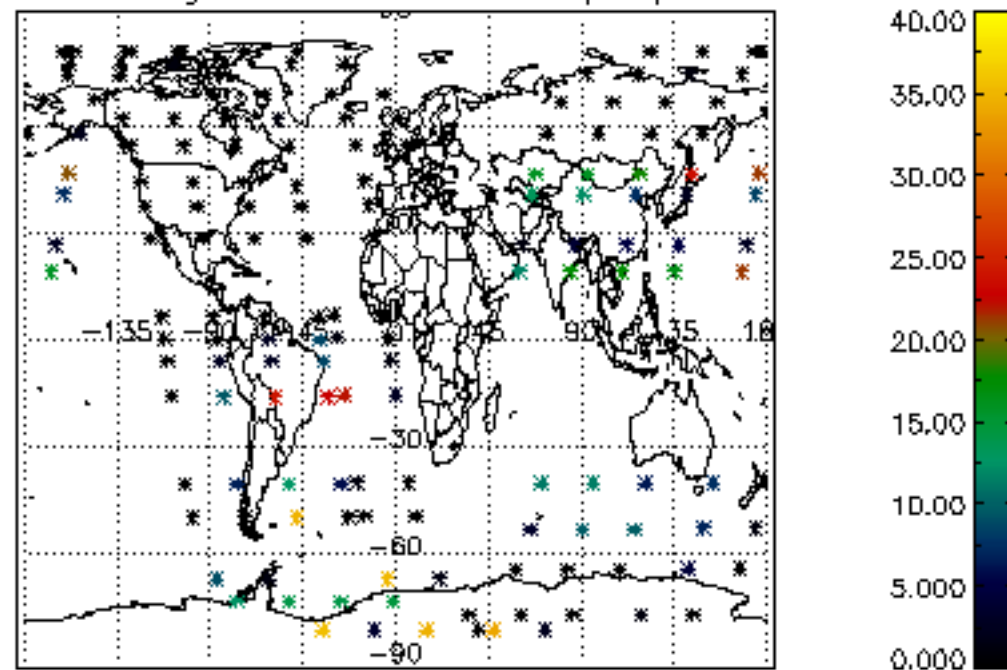
Percentage of datation errors per profile



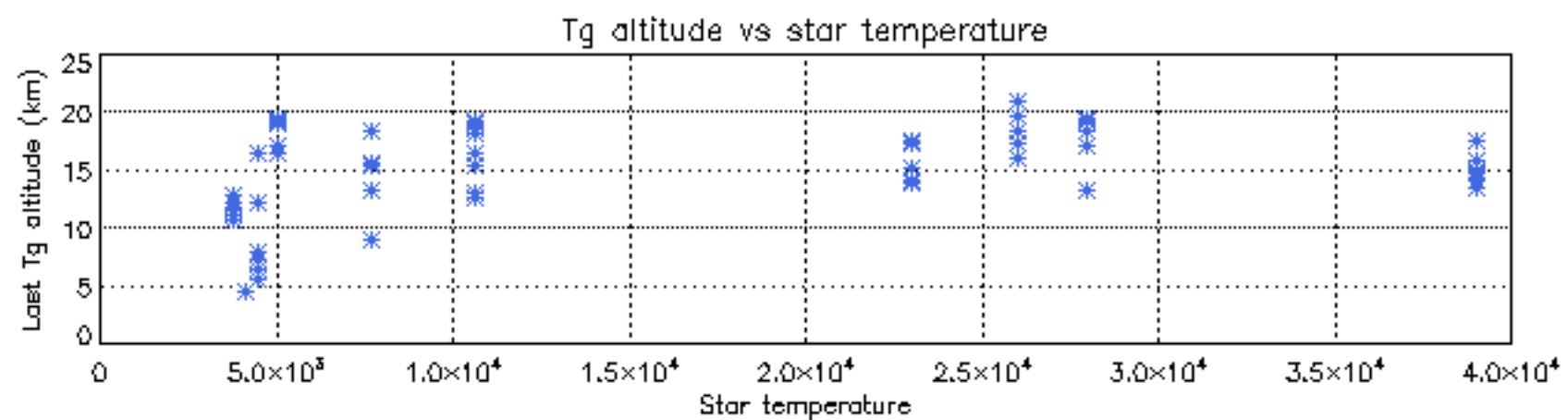
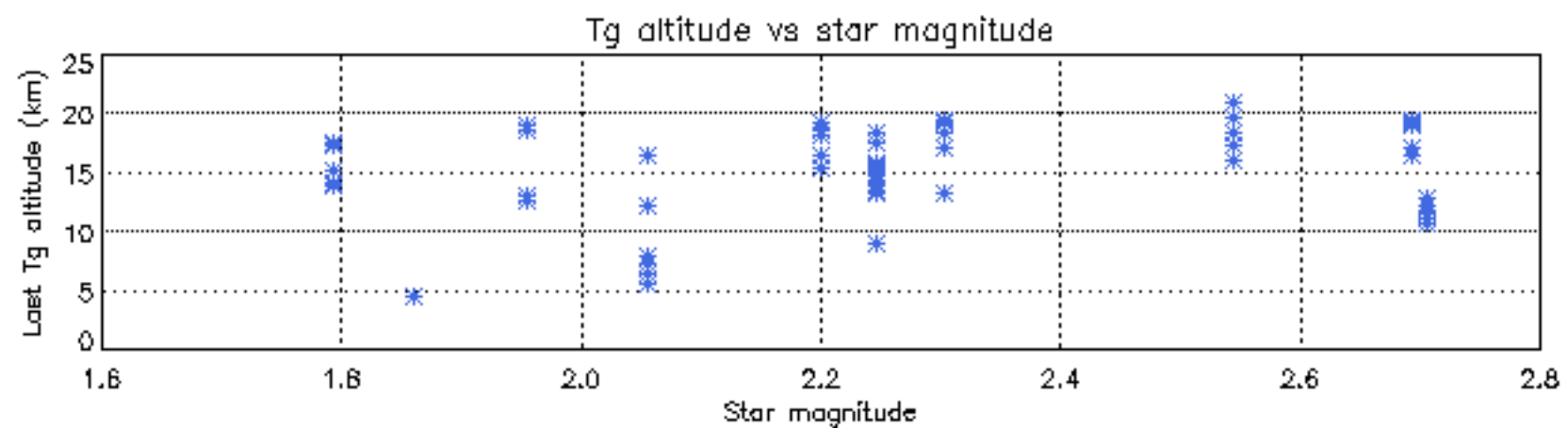
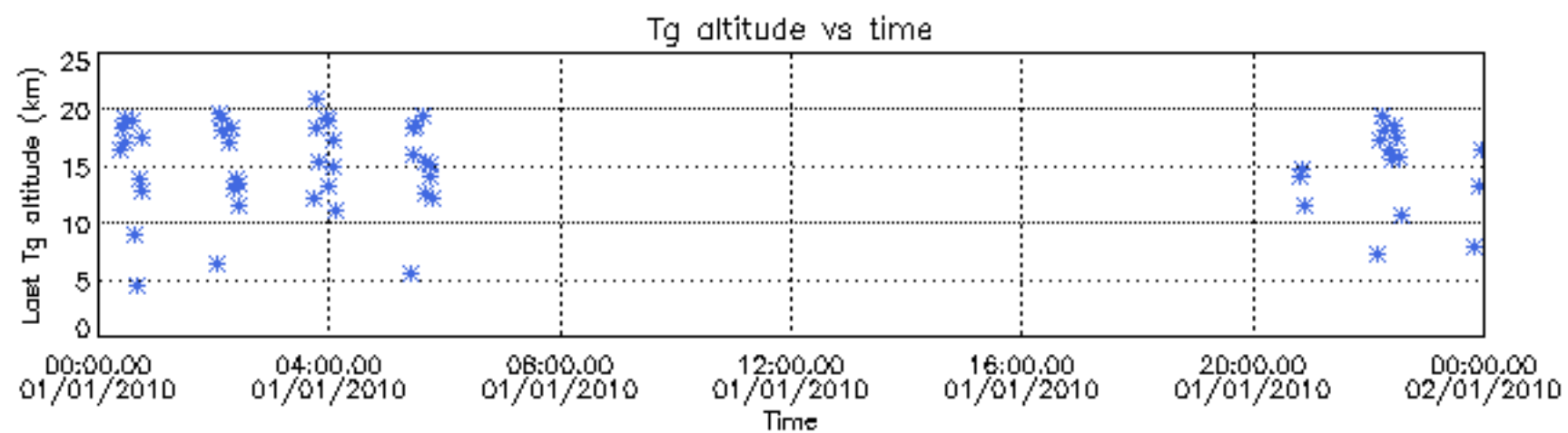
Percentage of star falling outside central band per profile



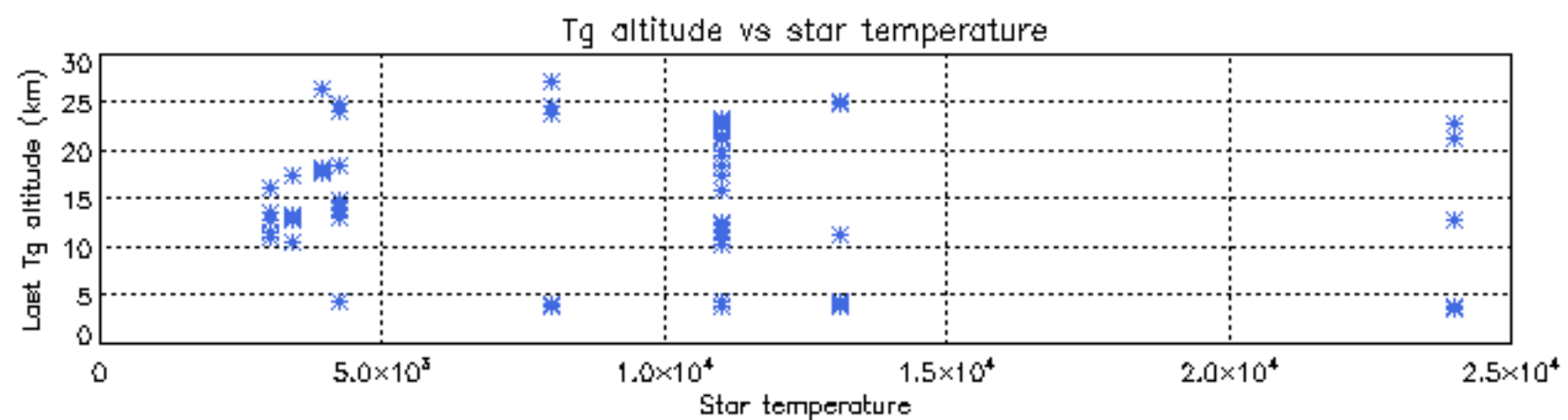
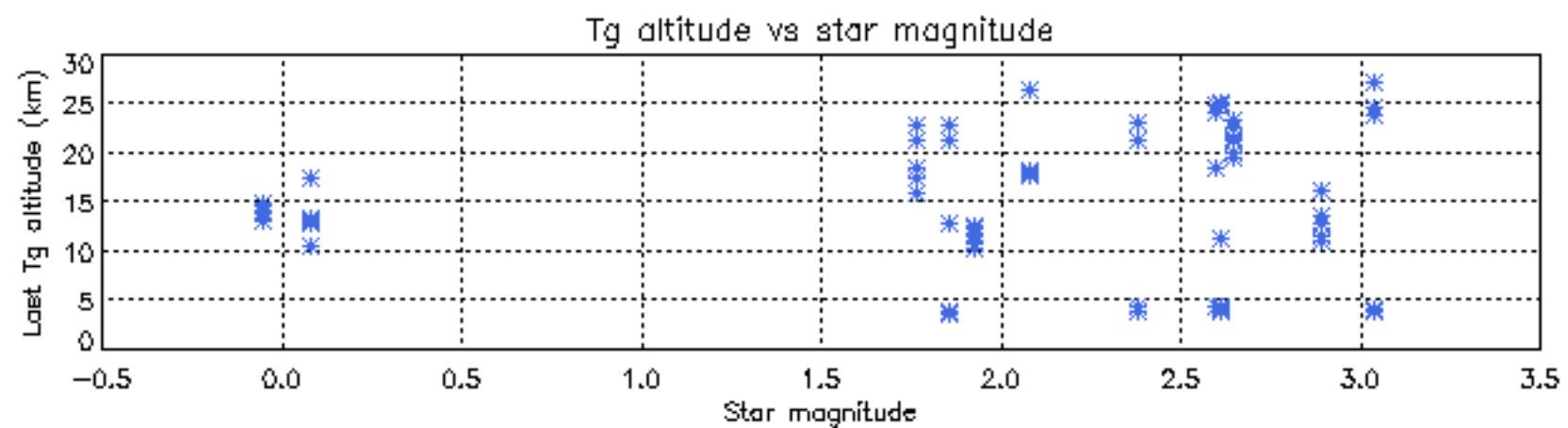
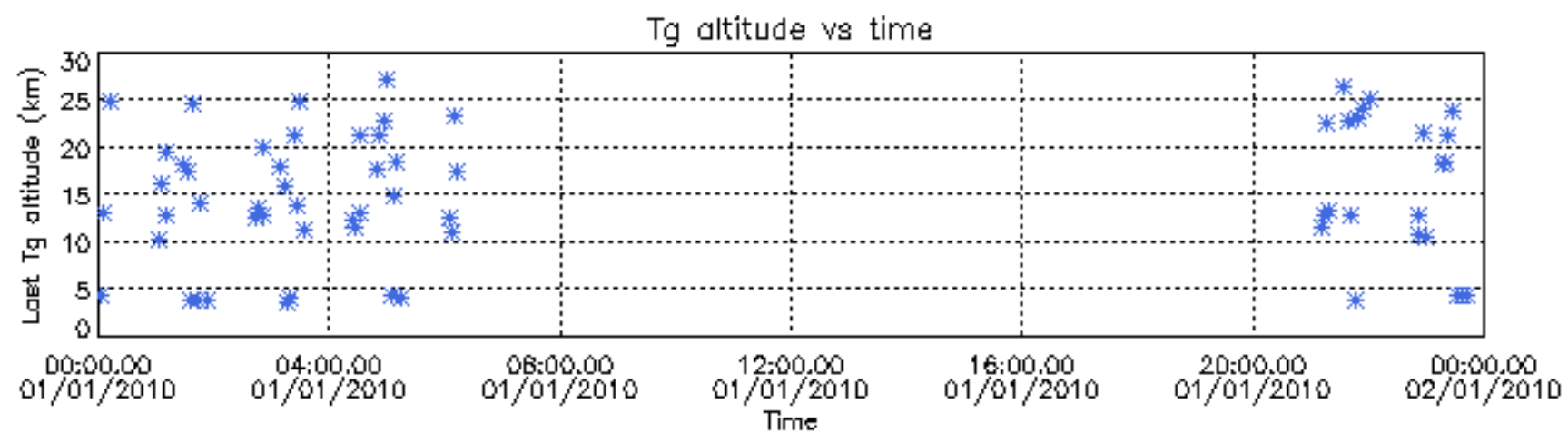
Percentage of saturation errors per profile



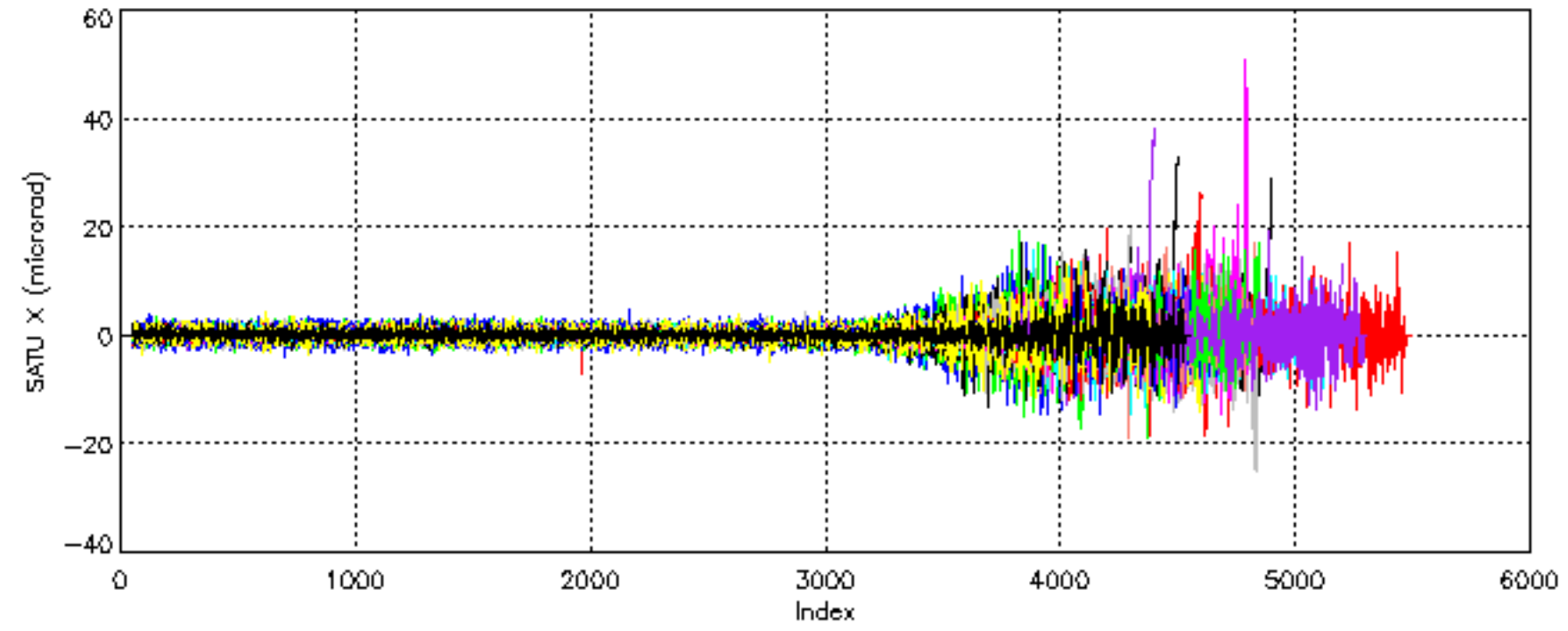
Tangent altitude at which the star is lost

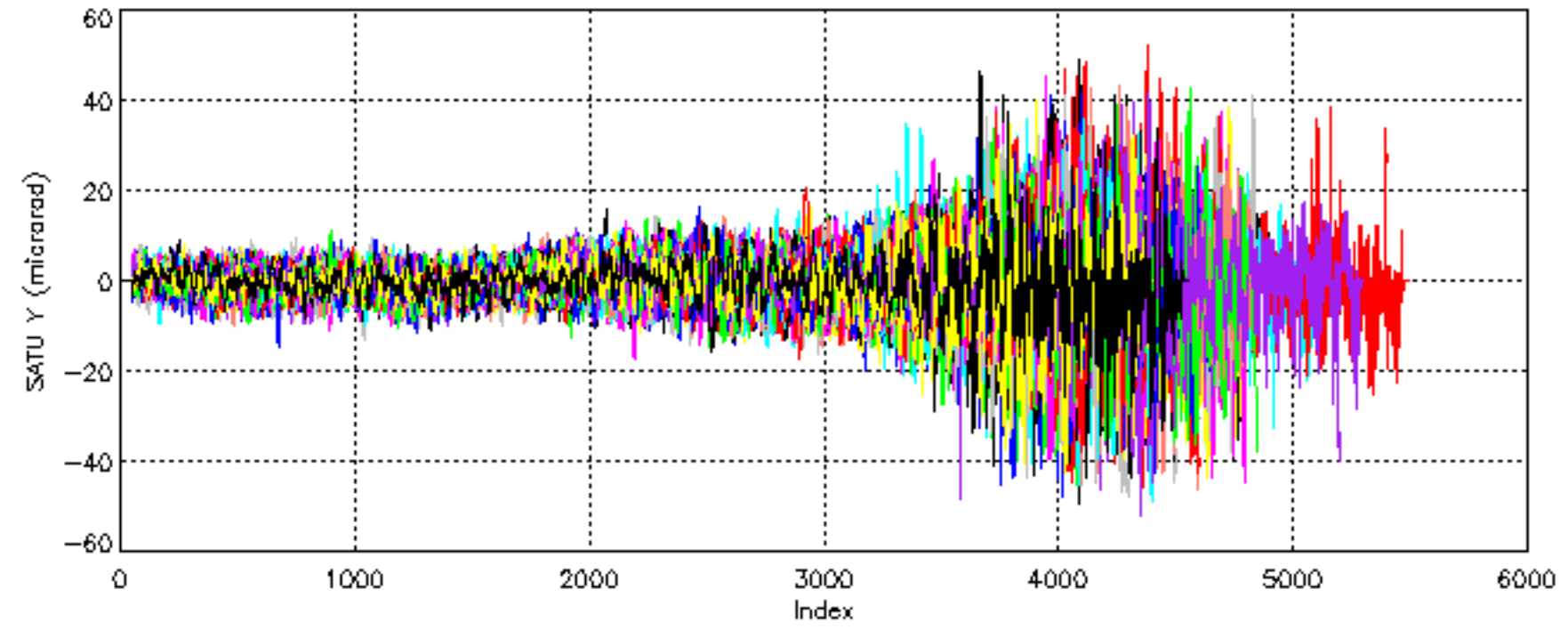


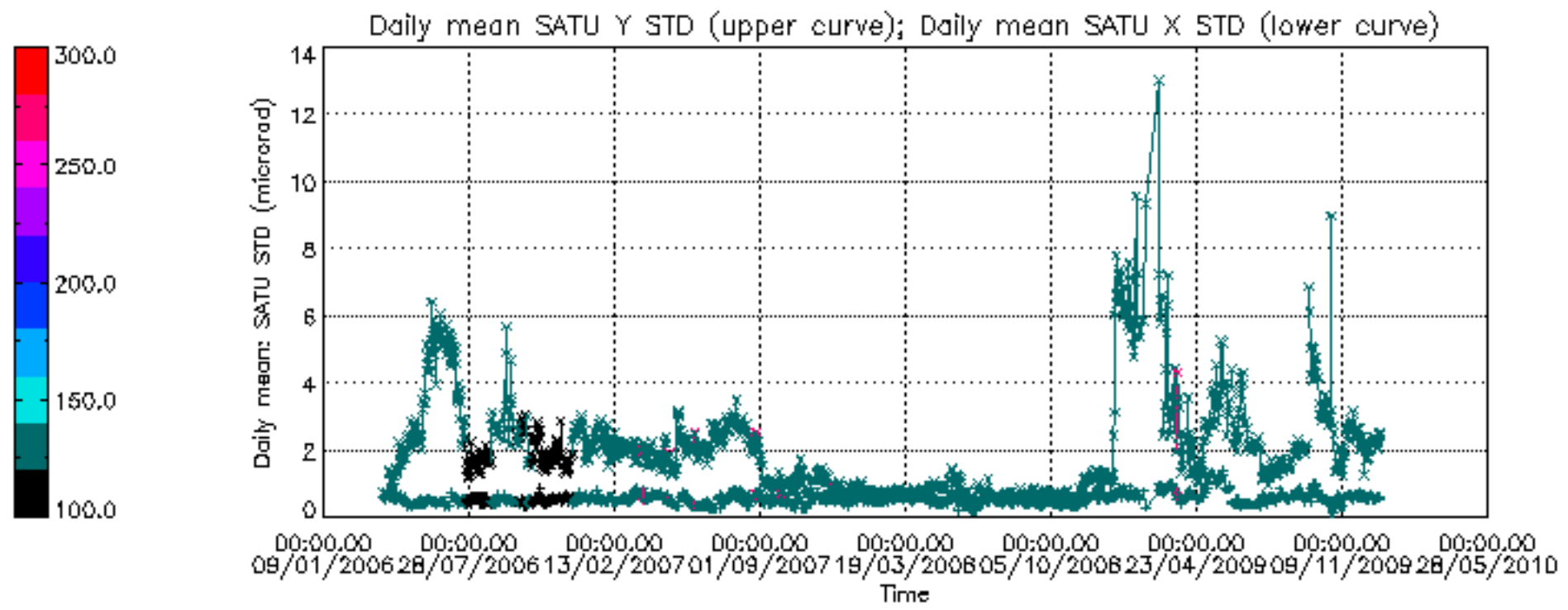
Tangent altitude at which the star is lost











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1;	-682.4;	01-JAN-2010	00:14:36;	Dark	;	43.0;	122;	9Alp2Lib	;	2.75;	9700;	occ;	86;	0;	40980
2;	-269.4;	01-JAN-2010	00:21:29;	Dark	;	44.0;	54;	5The Cen	;	2.06;	4500;	occ;	88;	0;	40980
3;	-103.6;	01-JAN-2010	00:24:15;	Dark	;	40.5;	95;	Zet Cen	;	2.55;	26000;	occ;	81;	0;	40980
4;	1.0;	01-JAN-2010	00:26:00;	Dark	;	41.0;	77;	Eps Cen	;	2.30;	28000;	occ;	82;	0;	40981
5;	106.3;	01-JAN-2010	00:27:45;	Dark	;	43.0;	64;	Gam Cen	;	2.20;	10600;	occ;	86;	0;	40981
6;	209.9;	01-JAN-2010	00:29:28;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40981
7;	476.2;	01-JAN-2010	00:33:55;	Dark	;	46.5;	113;	Mu Vel	;	2.69;	5000;	occ;	93;	0;	40981
8;	630.5;	01-JAN-2010	00:36:29;	Dark	;	49.0;	71;	Iot Car	;	2.25;	7700;	occ;	98;	0;	40981
9;	727.5;	01-JAN-2010	00:38:06;	Dark	;	51.5;	41;	Eps Car	;	1.86;	4100;	occ;	103;	0;	40981
10;	916.1;	01-JAN-2010	00:41:15;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	92;	0;	40981
11;	1047.9;	01-JAN-2010	00:43:26;	Dark	;	45.0;	70;	Zet Pup	;	2.25;	39000;	occ;	90;	0;	40981
12;	1172.3;	01-JAN-2010	00:45:31;	Dark	;	47.0;	117;	Pi Pup	;	2.71;	3800;	occ;	94;	0;	40981
13;	1340.4;	01-JAN-2010	00:48:19;	Dark	;	45.5;	23;	21Eps CMA	;	1.50;	26000;	occ;	91;	0;	40981
14;	1433.2;	01-JAN-2010	00:49:52;	Dark	;	44.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	88;	0;	40981
15;	1581.4;	01-JAN-2010	00:52:20;	Dark	;	45.0;	1;	9Alp CMA	;	-1.44;	11000;	occ;	90;	0;	40981
16;	1730.7;	01-JAN-2010	00:54:49;	Dark	;	36.0;	56;	53Kap Ori	;	2.07;	30000;	occ;	72;	0;	40981
17;	1881.4;	01-JAN-2010	00:57:20;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	83;	0;	40981
18;	2032.7;	01-JAN-2010	00:59:51;	Dark	;	55.0;	14;	58Alp Ori	;	0.87;	3000;	occ;	110;	0;	40981
19;	2229.2;	01-JAN-2010	01:03:08;	Dark	;	53.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	106;	0;	40981
20;	2327.3;	01-JAN-2010	01:04:46;	Bright;	;	44.0;	151;	13Mu Gem	;	2.89;	3000;	occ;	88;	0;	40981
21;	2566.8;	01-JAN-2010	01:08:45;	Bright;	;	39.5;	107;	37The Aur	;	2.65;	11000;	occ;	79;	0;	40981
22;	2692.3;	01-JAN-2010	01:10:51;	Bright;	;	42.0;	6;	13Alp Aur	;	0.08;	3400;	occ;	84;	0;	40981
23;	3691.0;	01-JAN-2010	01:27:30;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	79;	0;	40981
24;	3911.7;	01-JAN-2010	01:31:10;	Bright;	;	50.5;	32;	77Eps UMa	;	1.76;	11000;	occ;	101;	0;	40981
25;	4108.8;	01-JAN-2010	01:34:27;	Bright;	;	66.0;	39;	85Eta UMa	;	1.85;	24000;	occ;	132;	0;	40981
26;	4353.0;	01-JAN-2010	01:38:32;	Bright;	;	40.5;	180;	27Gam Boo	;	3.04;	8000;	occ;	81;	0;	40981
27;	4574.5;	01-JAN-2010	01:42:13;	Bright;	;	62.0;	83;		;	2.38;	11000;	occ;	124;	0;	40981
28;	4770.9;	01-JAN-2010	01:45:29;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;	occ;	107;	0;	40981
29;	5194.3;	01-JAN-2010	01:52:33;	Bright;	;	55.5;	104;	27Bet Lib	;	2.61;	13100;	occ;	111;	0;	40981

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1;	-838.1;	01-JAN-2010	01:52:36;	Bright;	;	56.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	112;	7;	40981
2;	-681.9;	01-JAN-2010	01:55:13;	Dark	;	43.5;	122;	9Alp2Lib	;	2.75;	9700;	occ;	87;	0;	40981
3;	-268.9;	01-JAN-2010	02:02:06;	Dark	;	54.0;	54;	5The Cen	;	2.06;	4500;	occ;	108;	0;	40981
4;	-102.9;	01-JAN-2010	02:04:52;	Dark	;	39.5;	95;	Zet Cen	;	2.55;	26000;	occ;	79;	0;	40981
5;	1.6;	01-JAN-2010	02:06:36;	Dark	;	39.5;	77;	Eps Cen	;	2.30;	28000;	occ;	79;	0;	40982
6;	107.0;	01-JAN-2010	02:08:22;	Dark	;	44.0;	64;	Gam Cen	;	2.20;	10600;	occ;	88;	0;	40982
7;	210.8;	01-JAN-2010	02:10:05;	Dark	;	59.5;	0;		;	0.00;	0;	occ;	119;	0;	40982
8;	477.2;	01-JAN-2010	02:14:32;	Dark	;	48.0;	113;	Mu Vel	;	2.69;	5000;	occ;	96;	0;	40982
9;	631.0;	01-JAN-2010	02:17:05;	Dark	;	41.0;	71;	Iot Car	;	2.25;	7700;	occ;	82;	0;	40982
10;	745.4;	01-JAN-2010	02:19:00;	Dark	;	46.0;	46;	Del Vel	;	1.95;	10600;	occ;	92;	0;	40982
11;	916.7;	01-JAN-2010	02:21:51;	Dark	;	46.0;	34;	Gam2Vel	;	1.79;	23000;	occ;	92;	0;	40982
12;	1048.4;	01-JAN-2010	02:24:03;	Dark	;	48.5;	70;	Zet Pup	;	2.25;	39000;	occ;	97;	0;	40982
13;	1172.7;	01-JAN-2010	02:26:07;	Dark	;	48.0;	117;	Pi Pup	;	2.71;	3800;	occ;	96;	0;	40982
14;	1340.9;	01-JAN-2010	02:28:55;	Dark	;	46.5;	23;	21Eps CMA	;	1.50;	26000;	occ;	93;	0;	40982
15;	1433.4;	01-JAN-2010	02:30:28;	Dark	;	45.0;	179;	240mi2CMA	;	3.03;	24000;	occ;	90;	0;	40982
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18;	1881.3;	01-JAN-2010	02:37:56;	Dark	;	41.5;	30;	46Eps Ori	;	1.69;	30000;	occ;	83;	0;	40982
19;	2032.7;	01-JAN-2010	02:40:27;	Dark	;	50.5;	14;	58Alp Ori	;	0.87;	3000;	occ;	101;	0;	40982
20;	2228.8;	01-JAN-2010	02:43:43;	Dark	;	50.0;	44;	24Gam Gem	;	1.93;	11000;	occ;	100;	0;	40982
21;	2327.1;	01-JAN-2010	02:45:22;	Bright;	;	46.5;	151;	13Mu Gem	;	2.89;	3000;	occ;	93;	0;	40982
22;	2566.5;	01-JAN-2010	02:49:21;	Bright;	;	39.5;	107;	37The Aur	;	2.65;	11000;	occ;	79;	0;	40982
23;	2692.2;	01-JAN-2010	02:51:27;	Bright;	;	42.5;	6;	13Alp Aur	;	0.08;	3400;	occ;	85;	0;	40982
24;	3690.9;	01-JAN-2010	03:08:05;	Bright;	;	39.5;	60;	7Bet UMi	;	2.08;	3950;	occ;	79;	0;	40982

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1;	-2124.7;	01-JAN-2010	03:11:46;	Bright;	;	52.0;	32;	77Eps UMa	;	1.76;	11000;	occ;	104;	0;	40982
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3;	-1682.7;	01-JAN-2010	03:19:08;	Bright;	;	62.0;	180;	27Gam Boo	;	3.04;	8000;	occ;	124;	0;	40982
4;	-1461.4;	01-JAN-2010	03:22:49;	Bright;	;	42.0;	83;		;	2.38;	11000;	occ;	84;	0;	40982
5;	-1264.5;	01-JAN-2010	03:26:06;	Bright;	;	53.5;	3;	16Alp Boo	;	-0.05;	4250;	occ;	107;	0;	40982
6;	-1145.0;	01-JAN-2010	03:28:05;	Bright;	;	35.0;	102;	24Alp Ser	;	2.60;	4250;	occ;	70;	0;	40982
7;	-841.1;	01-JAN-2010	03:33:09;	Bright;	;	45.0;	104;	27Bet Lib	;	2.61;	13100;	occ;	90;	0;	40982
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4; 1347.7; 02-JAN-2010 20:24:01; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;41007
5; 1439.4; 02-JAN-2010 20:25:32; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;41007
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13; 3900.6; 02-JAN-2010 21:06:34; Bright; 50.5; 32; 77Eps UMa ; 1.76; 11000;occ; 101; 0;41007
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22; 3688.3; 02-JAN-2010 22:43:37; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41008
23; 3900.4; 02-JAN-2010 22:47:09; Bright; 58.0; 32; 77Eps UMa ; 1.76; 11000;occ; 116; 0;41008
24; 4103.2; 02-JAN-2010 22:50:32; Bright; 67.0; 39; 85Eta UMa ; 1.85; 24000;occ; 134; 0;41008
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27; 4783.1; 02-JAN-2010 23:01:52; Bright; 57.0; 3; 16Alp Boo ; -0.05; 4250;occ; 114; 0;41008
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9;	930.5;	02-JAN-2010	23:38:15;	Dark	;	46.5;	34;	Gam2Vel	;	1.79;	23000;occ;	93;	0;41009
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21;	3899.8;	03-JAN-2010	00:27:45;	Bright;	;	49.0;	32;	77Eps UMA	;	1.76;	11000;occ;	98;	0;41009
22;	4103.0;	03-JAN-2010	00:31:08;	Bright;	;	45.5;	39;	85Eta UMA	;	1.85;	24000;occ;	91;	0;41009
23;	4353.7;	03-JAN-2010	00:35:18;	Bright;	;	63.0;	180;	27Gam Boo	;	3.04;	8000;occ;	126;	0;41009
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26;	4899.3;	03-JAN-2010	00:44:24;	Bright;	;	54.0;	102;	24Alp Ser	;	2.60;	4250;occ;	108;	0;41009
27;	5207.8;	03-JAN-2010	00:49:33;	Bright;	;	36.0;	104;	27Bet Lib	;	2.61;	13100;occ;	72;	0;41009
28;	5371.0;	03-JAN-2010	00:52:16;	Dark	;	43.5;	122;	9Alp2Lib	;	2.75;	9700;occ;	87;	0;41009
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2;	-2131.5;	02-JAN-2010	06:01:14;	Bright;	;	44.0;	32;	77Eps UMA	;	1.76;	11000;occ;	88;	0;40998
3;	-1930.8;	02-JAN-2010	06:04:35;	Bright;	;	67.0;	39;	85Eta UMA	;	1.85;	24000;occ;	134;	0;40998
4;	-1682.5;	02-JAN-2010	06:08:43;	Bright;	;	63.0;	180;	27Gam Boo	;	3.04;	8000;occ;	126;	0;40998
5;	-1457.8;	02-JAN-2010	06:12:28;	Bright;	;	43.0;	83;		;	2.38;	11000;occ;	86;	0;40998
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7;	-1139.7;	02-JAN-2010	06:17:46;	Bright;	;	49.0;	102;	24Alp Ser	;	2.60;	4250;occ;	98;	0;40998
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11;	-92.2;	02-JAN-2010	06:35:13;	Dark	;	40.0;	95;	Zet Cen	;	2.55;	26000;occ;	80;	0;40998
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4;	2223.4;	02-JAN-2010	07:13:49;	Dark	;	45.5;	44;	24Gam Gem	;	1.93;	11000;occ;	91;	0;40999
5;	2322.2;	02-JAN-2010	07:15:28;	Bright;	;	47.5;	151;	13Mu Gem	;	2.89;	3000;occ;	95;	0;40999
6;	2562.7;	02-JAN-2010	07:19:28;	Bright;	;	38.5;	107;	37The Aur	;	2.65;	11000;occ;	77;	0;40999
7;	2691.3;	02-JAN-2010	07:21:37;	Bright;	;	42.0;	6;	13Alp Aur	;	0.08;	3400;occ;	84;	0;40999
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9;	3904.1;	02-JAN-2010	07:41:50;	Bright;	;	46.5;	32;	77Eps UMA	;	1.76;	11000;occ;	93;	0;40999
10;	4105.2;	02-JAN-2010	07:45:11;	Bright;	;	44.0;	39;	85Eta UMA	;	1.85;	24000;occ;	88;	0;40999
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13;	4779.1;	02-JAN-2010	07:56:25;	Bright;	;	55.0;	3;	16Alp Boo	;	-0.05;	4250;occ;	110;	0;40999
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14; 4901.4; 03-JAN-2010 12:28:38; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41016  
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23; 6685.7; 03-JAN-2010 12:58:22; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;41016  
24; 6799.8; 03-JAN-2010 13:00:16; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;41016  
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26; 7101.6; 03-JAN-2010 13:05:18; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;41016  
27; 7221.2; 03-JAN-2010 13:07:17; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;41016  
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5; 2558.8; 03-JAN-2010 13:30:11; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;41017  
6; 2692.4; 03-JAN-2010 13:32:24; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;41017  
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12; 4582.3; 03-JAN-2010 14:03:54; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;41017  
13; 4787.2; 03-JAN-2010 14:07:19; Bright; 52.0; 3; 16Alp Boo ;-0.05; 4250;occ; 104; 0;41017  
14; 4902.2; 03-JAN-2010 14:09:14; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;41017  
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 22; 6544.9; 03-JAN-2010 14:36:37; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41017  
 23; 6686.1; 03-JAN-2010 14:38:58; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;41017  
 24; 6800.6; 03-JAN-2010 14:40:53; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;41017  
 25; 6970.8; 03-JAN-2010 14:43:43; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41017  
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 27; 7221.5; 03-JAN-2010 14:47:54; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;41017  
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 12; 3958.8; 03-JAN-2010 17:14:43; Bright; 48.0; 55; 79Zet UMA ; 2.06; 10200;occ; 96; 0;41019  
 13; 4100.8; 03-JAN-2010 17:17:05; Bright; 47.5; 39; 85Eta UMA ; 1.85; 24000;occ; 95; 0;41019  
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 13; 517.9; 04-JAN-2010 07:22:45; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028  
 14; 655.5; 04-JAN-2010 07:25:03; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41028  
 15; 769.9; 04-JAN-2010 07:26:57; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028  
 16; 939.9; 04-JAN-2010 07:29:47; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41028  
 17; 1071.1; 04-JAN-2010 07:31:58; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;41028  
 18; 1189.1; 04-JAN-2010 07:33:56; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41028  
 19; 1353.2; 04-JAN-2010 07:36:41; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41028  
 20; 1443.7; 04-JAN-2010 07:38:11; Dark ; 45.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 90; 0;41028  
 21; 1587.4; 04-JAN-2010 07:40:35; Dark ; 48.0; 1; 9Alp CMa ; -1.44; 11000;occ; 96; 0;41028

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1; 1634.9; 04-JAN-2010 07:41:22; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 95;41028  
 2; 2031.1; 04-JAN-2010 07:47:58; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0;41028  
 3; 2215.0; 04-JAN-2010 07:51:02; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41028  
 4; 2314.4; 04-JAN-2010 07:52:42; Bright; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;41028  
 5; 2556.5; 04-JAN-2010 07:56:44; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41028  
 6; 2690.1; 04-JAN-2010 07:58:57; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;41028  
 7; 3686.0; 04-JAN-2010 08:15:33; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;41028  
 8; 3955.7; 04-JAN-2010 08:20:03; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;41028  
 9; 4098.5; 04-JAN-2010 08:22:26; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;41028  
 10; 4354.6; 04-JAN-2010 08:26:42; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41028  
 11; 4584.5; 04-JAN-2010 08:30:32; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;41028  
 12; 4905.6; 04-JAN-2010 08:35:53; Bright; 36.0; 102; 24Alp Ser ; 2.60; 4250;occ; 72; 0;41028  
 13; 5217.3; 04-JAN-2010 08:41:05; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;41028  
 14; 5383.7; 04-JAN-2010 08:43:51; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;41028  
 15; 5802.8; 04-JAN-2010 08:50:50; Dark ; 48.0; 54; 5The Cen ; 2.06; 4500;occ; 96; 0;41028  
 16; 5963.0; 04-JAN-2010 08:53:30; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41028  
 17; 6065.2; 04-JAN-2010 08:55:13; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;41028  
 18; 6182.1; 04-JAN-2010 08:57:10; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41028  
 19; 6290.5; 04-JAN-2010 08:58:58; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41028  
 20; 6554.6; 04-JAN-2010 09:03:22; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41028  
 21; 6691.8; 04-JAN-2010 09:05:39; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41028  
 22; 6806.2; 04-JAN-2010 09:07:34; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41028  
 23; 6975.9; 04-JAN-2010 09:10:23; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41028  
 24; 7107.2; 04-JAN-2010 09:12:35; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41028  
 25; 7225.4; 04-JAN-2010 09:14:33; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41028  
 26; 7389.3; 04-JAN-2010 09:17:17; Dark ; 46.0; 23; 21Eps CMa ; 1.50; 26000;occ; 92; 0;41028  
 27; 7479.7; 04-JAN-2010 09:18:47; Dark ; 43.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 87; 0;41028  
 28; 7623.2; 04-JAN-2010 09:21:11; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;41028

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 2; 2031.1; 04-JAN-2010 09:28:34; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;41029  
 3; 2214.7; 04-JAN-2010 09:31:38; Dark ; 44.0; 44; 24Gam Gem ; 1.93; 11000;occ; 88; 0;41029  
 4; 2314.1; 04-JAN-2010 09:33:17; Bright; 58.0; 151; 13Mu Gem ; 2.89; 3000;occ; 116; 0;41029

5; 2556.5; 04-JAN-2010 09:37:20; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;41029  
6; 2689.8; 04-JAN-2010 09:39:33; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41029  
7; 3686.2; 04-JAN-2010 09:56:09; Bright; 43.0; 60; 7Bet UMi ; 2.08; 3950;occ; 86; 0;41029  
8; 3955.0; 04-JAN-2010 10:00:38; Bright; 49.5; 55; 79Zet UMa ; 2.06; 10200;occ; 99; 0;41029  
9; 4098.3; 04-JAN-2010 10:03:02; Bright; 48.0; 39; 85Eta UMa ; 1.85; 24000;occ; 96; 0;41029  
10; 4354.4; 04-JAN-2010 10:07:18; Bright; 44.5; 180; 27Gam Boo ; 3.04; 8000;occ; 89; 0;41029  
11; 4585.1; 04-JAN-2010 10:11:08; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41029  
12; 4905.7; 04-JAN-2010 10:16:29; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41029  
13; 5218.0; 04-JAN-2010 10:21:41; Bright; 51.0; 104; 27Bet Lib ; 2.61; 13100;occ; 102; 0;41029  
14; 5384.3; 04-JAN-2010 10:24:28; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;41029  
15; 5803.6; 04-JAN-2010 10:31:27; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;41029  
16; 5963.6; 04-JAN-2010 10:34:07; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;41029  
17; 6065.8; 04-JAN-2010 10:35:49; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41029  
18; 6182.9; 04-JAN-2010 10:37:46; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;41029  
19; 6291.4; 04-JAN-2010 10:39:35; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41029  
20; 6555.2; 04-JAN-2010 10:43:59; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;41029  
21; 6692.4; 04-JAN-2010 10:46:16; Dark ; 47.5; 71; Iot Car ; 2.25; 7700;occ; 95; 0;41029  
22; 6806.9; 04-JAN-2010 10:48:10; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41029  
23; 6976.7; 04-JAN-2010 10:51:00; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;41029  
24; 7107.7; 04-JAN-2010 10:53:11; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;41029  
25; 7225.8; 04-JAN-2010 10:55:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;41029  
26; 7389.4; 04-JAN-2010 10:57:53; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41029  
27; 7480.0; 04-JAN-2010 10:59:23; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41029  
28; 7623.3; 04-JAN-2010 11:01:47; Dark ; 17.0; 1; 9Alp CMa ; -1.44; 11000;occ; 34; 0;41029

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1; 1587.4; 04-JAN-2010 11:01:47; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;41030  
2; 2031.1; 04-JAN-2010 11:09:10; Dark ; 49.5; 14; 58Alp Ori ; 0.87; 3000;occ; 99; 0;41030  
3; 2214.6; 04-JAN-2010 11:12:14; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;41030  
4; 2313.9; 04-JAN-2010 11:13:53; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;41030  
5; 2556.2; 04-JAN-2010 11:17:55; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;41030  
6; 2689.8; 04-JAN-2010 11:20:09; Bright; 55.0; 42; 34Bet Aur ; 1.90; 10200;occ; 110; 0;41030  
7; 3685.8; 04-JAN-2010 11:36:45; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;41030  
8; 3955.1; 04-JAN-2010 11:41:14; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;41030  
9; 4354.6; 04-JAN-2010 11:47:54; Bright; 64.0; 180; 27Gam Boo ; 3.04; 8000;occ; 128; 0;41030  
10; 4585.2; 04-JAN-2010 11:51:44; Bright; 44.0; 83; ; 2.38; 11000;occ; 88; 0;41030  
11; 4906.1; 04-JAN-2010 11:57:05; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;41030  
12; 5218.5; 04-JAN-2010 12:02:18; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;41030  
13; 5385.0; 04-JAN-2010 12:05:04; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;41030  
14; 5804.2; 04-JAN-2010 12:12:03; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;41030  
15; 5964.4; 04-JAN-2010 12:14:44; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;41030  
16; 6066.3; 04-JAN-2010 12:16:25; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41030  
17; 6183.8; 04-JAN-2010 12:18:23; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41030  
18; 6292.3; 04-JAN-2010 12:20:11; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41030  
19; 6556.3; 04-JAN-2010 12:24:35; Dark ; 49.5; 113; Mu Vel ; 2.69; 5000;occ; 99; 0;41030  
20; 6692.9; 04-JAN-2010 12:26:52; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41030  
21; 6807.3; 04-JAN-2010 12:28:47; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;41030  
22; 6977.2; 04-JAN-2010 12:31:36; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41030  
23; 7108.3; 04-JAN-2010 12:33:48; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41030  
24; 7225.8; 04-JAN-2010 12:35:45; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41030  
25; 7389.9; 04-JAN-2010 12:38:29; Dark ; 45.0; 23; 21Eps CMa ; 1.50; 26000;occ; 90; 0;41030  
26; 7480.1; 04-JAN-2010 12:39:59; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;41030

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1; 1587.7; 04-JAN-2010 12:42:23; Dark ; 52.0; 1; 9Alp CMa ; -1.44; 11000;occ; 104; 0;41031  
2; 2031.0; 04-JAN-2010 12:49:46; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;41031  
3; 2214.3; 04-JAN-2010 12:52:49; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;41031  
4; 2313.6; 04-JAN-2010 12:54:29; Bright; 48.0; 151; 13Mu Gem ; 2.89; 3000;occ; 96; 0;41031  
5; 2556.0; 04-JAN-2010 12:58:31; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;41031  
6; 2689.4; 04-JAN-2010 13:00:44; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41031  
7; 3685.5; 04-JAN-2010 13:17:21; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41031  
8; 3954.8; 04-JAN-2010 13:21:50; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;41031  
9; 4354.7; 04-JAN-2010 13:28:30; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;41031  
10; 4585.4; 04-JAN-2010 13:32:20; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;41031  
11; 4906.7; 04-JAN-2010 13:37:42; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;41031  
12; 5218.8; 04-JAN-2010 13:42:54; Bright; 44.0; 104; 27Bet Lib ; 2.61; 13100;occ; 88; 0;41031  
13; 5385.6; 04-JAN-2010 13:45:41; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41031  
14; 5805.2; 04-JAN-2010 13:52:40; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;41031  
15; 5965.1; 04-JAN-2010 13:55:20; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;41031  
16; 6066.9; 04-JAN-2010 13:57:02; Dark ; 38.5; 77; Eps Cen ; 2.30; 28000;occ; 77; 0;41031



17; 6184.6; 04-JAN-2010 13:59:00; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;41031  
 18; 6293.3; 04-JAN-2010 14:00:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41031  
 19; 6557.2; 04-JAN-2010 14:05:12; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;41031  
 20; 6693.5; 04-JAN-2010 14:07:29; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41031  
 21; 6807.8; 04-JAN-2010 14:09:23; Dark ; 39.0; 46; Del Vel ; 1.95; 10600;occ; 78; 0;41031  
 22; 6977.7; 04-JAN-2010 14:12:13; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;41031  
 23; 7108.7; 04-JAN-2010 14:14:24; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;41031  
 24; 7226.6; 04-JAN-2010 14:16:22; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;41031  
 25; 7390.2; 04-JAN-2010 14:19:05; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41031  
 26; 7480.6; 04-JAN-2010 14:20:36; Dark ; 41.0; 179; 240mi2CMa ; 3.03; 24000;occ; 82; 0;41031

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 2; 1588.0; 04-JAN-2010 14:22:59; Dark ; 50.5; 1; 9Alp CMa ; -1.44; 11000;occ; 101; 0;41032  
 3; 2031.2; 04-JAN-2010 14:30:22; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;41032  
 4; 2214.0; 04-JAN-2010 14:33:25; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;41032  
 5; 2313.6; 04-JAN-2010 14:35:05; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;41032  
 6; 2555.9; 04-JAN-2010 14:39:07; Bright; 55.0; 107; 37The Aur ; 2.65; 11000;occ; 110; 0;41032  
 7; 2689.5; 04-JAN-2010 14:41:20; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41032  
 8; 3685.6; 04-JAN-2010 14:57:57; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41032  
 9; 3954.3; 04-JAN-2010 15:02:25; Bright; 49.0; 55; 79Zet UMa ; 2.06; 10200;occ; 98; 0;41032  
 10; 4354.6; 04-JAN-2010 15:09:06; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;41032  
 11; 4585.6; 04-JAN-2010 15:12:57; Bright; 43.5; 83; ; 2.38; 11000;occ; 87; 0;41032  
 12; 4907.0; 04-JAN-2010 15:18:18; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;41032  
 13; 5219.5; 04-JAN-2010 15:23:30; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;41032  
 14; 5386.6; 04-JAN-2010 15:26:18; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;41032  
 15; 5806.1; 04-JAN-2010 15:33:17; Dark ; 49.0; 54; 5The Cen ; 2.06; 4500;occ; 98; 0;41032  
 16; 5965.9; 04-JAN-2010 15:35:57; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;41032  
 17; 6067.7; 04-JAN-2010 15:37:39; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;41032  
 18; 6185.4; 04-JAN-2010 15:39:36; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;41032  
 19; 6294.3; 04-JAN-2010 15:41:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41032  
 20; 6558.1; 04-JAN-2010 15:45:49; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;41032  
 21; 6694.1; 04-JAN-2010 15:48:05; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41032  
 22; 6808.3; 04-JAN-2010 15:49:59; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41032  
 23; 6978.2; 04-JAN-2010 15:52:49; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;41032  
 24; 7109.3; 04-JAN-2010 15:55:00; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;41032  
 25; 7226.6; 04-JAN-2010 15:56:58; Dark ; 46.0; 117; Pi Pup ; 2.71; 3800;occ; 92; 0;41032

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 2; 1444.7; 04-JAN-2010 16:01:12; Dark ; 43.5; 179; 240mi2CMa ; 3.03; 24000;occ; 87; 0;41033  
 3; 1588.1; 04-JAN-2010 16:03:35; Dark ; 49.5; 1; 9Alp CMa ; -1.44; 11000;occ; 99; 0;41033  
 4; 2031.1; 04-JAN-2010 16:10:58; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;41033  
 5; 2213.7; 04-JAN-2010 16:14:01; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;41033  
 6; 2313.1; 04-JAN-2010 16:15:40; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;41033  
 7; 2555.6; 04-JAN-2010 16:19:43; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;41033  
 8; 2689.2; 04-JAN-2010 16:21:56; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;41033  
 9; 3685.3; 04-JAN-2010 16:38:32; Bright; 42.0; 60; 7Bet UMi ; 2.08; 3950;occ; 84; 0;41033  
 10; 3953.8; 04-JAN-2010 16:43:01; Bright; 53.5; 55; 79Zet UMa ; 2.06; 10200;occ; 107; 0;41033  
 11; 4354.5; 04-JAN-2010 16:49:41; Bright; 56.0; 180; 27Gam Boo ; 3.04; 8000;occ; 112; 0;41033  
 12; 4585.9; 04-JAN-2010 16:53:33; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;41033  
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 21; 1449.8; 06-JAN-2010 08:15:39; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;41057  
 22; 1591.2; 06-JAN-2010 08:18:01; Dark ; 47.0; 1; 9Alp CMa ; -1.44; 11000;occ; 94; 0;41057

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 19; 6317.7; 06-JAN-2010 09:36:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41057  
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 23; 6989.6; 06-JAN-2010 09:47:59; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;41057  
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 26; 7396.5; 06-JAN-2010 09:54:46; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41057  
 27; 7485.9; 06-JAN-2010 09:56:15; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;41057  
 28; 7627.0; 06-JAN-2010 09:58:36; Dark ; 49.0; 1; 9Alp CMa ; -1.44; 11000;occ; 98; 0;41057

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4; 2307.8; 06-JAN-2010 10:10:33; Bright; 42.5; 151; 13Mu Gem ; 2.89; 3000;occ; 85; 0;41058  
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6; 2684.3; 06-JAN-2010 10:16:50; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;41058  
7; 3682.5; 06-JAN-2010 10:33:28; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;41058  
8; 3924.4; 06-JAN-2010 10:37:30; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;41058  
9; 4091.0; 06-JAN-2010 10:40:16; Bright; 44.0; 39; 85Eta UMa ; 1.85; 24000;occ; 88; 0;41058  
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11; 4591.7; 06-JAN-2010 10:48:37; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;41058  
12; 4916.1; 06-JAN-2010 10:54:01; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41058  
13; 5233.3; 06-JAN-2010 10:59:19; Dark ; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;41058  
14; 5404.3; 06-JAN-2010 11:02:10; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;41058  
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19; 6318.6; 06-JAN-2010 11:17:24; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41058  
20; 6580.6; 06-JAN-2010 11:21:46; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;41058  
21; 6707.2; 06-JAN-2010 11:23:52; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;41058  
22; 6821.3; 06-JAN-2010 11:25:47; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41058  
23; 6990.2; 06-JAN-2010 11:28:35; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41058  
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25; 7235.1; 06-JAN-2010 11:32:40; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;41058  
26; 7396.9; 06-JAN-2010 11:35:22; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;41058  
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7; 2684.2; 06-JAN-2010 11:57:25; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;41059  
8; 3682.0; 06-JAN-2010 12:14:03; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;41059  
9; 3924.5; 06-JAN-2010 12:18:06; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;41059  
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11; 4354.6; 06-JAN-2010 12:25:16; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;41059  
12; 4592.0; 06-JAN-2010 12:29:13; Bright; 51.0; 83; ; 2.38; 11000;occ; 102; 0;41059  
13; 4916.4; 06-JAN-2010 12:34:38; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41059  
14; 5233.9; 06-JAN-2010 12:39:55; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;41059  
15; 5405.2; 06-JAN-2010 12:42:46; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;41059  
16; 5827.8; 06-JAN-2010 12:49:49; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;41059  
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22; 6707.7; 06-JAN-2010 13:04:29; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41059  
23; 6821.8; 06-JAN-2010 13:06:23; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;41059  
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27; 7397.0; 06-JAN-2010 13:15:58; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;41059  
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19; 6209.4; 06-JAN-2010 14:36:46; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;41060
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22; 6708.2; 06-JAN-2010 14:45:05; Dark ; 49.5; 71; Iot Car ; 2.25; 7700;occ; 99; 0;41060
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15; 5407.0; 06-JAN-2010 16:04:00; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;41061
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 22; 3924.5; 07-JAN-2010 23:30:40; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;41080  
 23; 4437.5; 07-JAN-2010 23:39:13; Bright; 33.0; 133; 40Zet Her ; 2.81; 6000;occ; 66; 0;41080  
 24; 4565.0; 07-JAN-2010 23:41:21; Bright; 38.0; 67; 5Alp CrB ; 2.22; 11000;occ; 76; 0;41080  
 25; 4923.8; 07-JAN-2010 23:47:20; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;41080  
 26; 5057.7; 07-JAN-2010 23:49:33; Bright; 34.0; 120; 1Del Oph ; 2.73; 3200;occ; 68; 0;41080  
 27; 5245.9; 07-JAN-2010 23:52:42; Dark ; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;41080

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 5; 223.3; 08-JAN-2010 00:09:35; Dark ; 40.5; 20; Bet Cru ; 1.25; 30000;occ; 81; 0;41081  
 6; 303.5; 08-JAN-2010 00:10:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41081  
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 21; 2680.7; 08-JAN-2010 00:50:32; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;41081  
 22; 3424.1; 08-JAN-2010 01:02:56; Bright; 33.0; 49; 1Alp UMi ; 1.99; 6300;occ; 66; 0;41081  
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 8; 4087.2; 07-JAN-2010 08:27:59; Bright; 52.5; 39; 85Eta UMA ; 1.85; 24000;occ; 105; 0;41071  
 9; 4355.1; 07-JAN-2010 08:32:27; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;41071  
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 11; 4920.7; 07-JAN-2010 08:41:53; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;41071  
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 23; 7126.9; 07-JAN-2010 09:18:39; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;41071  
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 22; 6996.3; 07-JAN-2010 10:57:05; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;41072  
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 23; 6996.8; 07-JAN-2010 12:37:41; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;41073  
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25;	2303.1;	08-JAN-2010	05:46:02;	Bright;	44.5;	151;	13Mu Gem	; 2.89;	3000;occ;	89;	0;41084
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27;	2547.9;	08-JAN-2010	05:50:07;	Bright;	37.0;	107;	37The Aur	; 2.65;	11000;occ;	74;	0;41084
28;	2680.7;	08-JAN-2010	05:52:20;	Bright;	38.5;	42;	34Bet Aur	; 1.90;	10200;occ;	77;	0;41084
29;	3423.9;	08-JAN-2010	06:04:43;	Bright;	37.0;	49;	1Alp UMi	; 1.99;	6300;occ;	74;	0;41084
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21;	1455.3;	08-JAN-2010	07:12:31;	Dark	; 41.5;	179;	24Omi2CMA	; 3.03;	24000;occ;	83;	0;41085
22;	1594.7;	08-JAN-2010	07:14:50;	Dark	; 48.5;	1;	9Alp CMA	; -1.44;	11000;occ;	97;	0;41085
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4;	2395.5;	08-JAN-2010	07:28:11;	Bright;	39.0;	28;	12Bet Tau	; 1.65;	15200;occ;	78;	0;41085
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6;	2680.5;	08-JAN-2010	07:32:56;	Bright;	38.0;	42;	34Bet Aur	; 1.90;	10200;occ;	76;	0;41085
7;	3424.1;	08-JAN-2010	07:45:19;	Bright;	36.0;	49;	1Alp UMi	; 1.99;	6300;occ;	72;	0;41085
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9;	3924.6;	08-JAN-2010	07:53:40;	Bright;	38.0;	119;	14Eta Dra	; 2.73;	4700;occ;	76;	0;41085
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4; 2302.3; 08-JAN-2010 12:28:25; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;41088
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 28; 2540.6; 16-JAN-2010 04:58:16; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;41198  
 29; 2671.5; 16-JAN-2010 05:00:26; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;41198  
 30; 3425.5; 16-JAN-2010 05:13:01; Bright; 39.0; 49; 1Alp UMi ; 1.99; 6300;occ; 78; 0;41198  
 31; 3661.7; 16-JAN-2010 05:16:57; Bright; 21.0; 60; 7Bet UMi ; 2.08; 3950;occ; 42; 0;41198

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1; -2374.4; 16-JAN-2010 05:16:57; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41198  
 2; -2114.5; 16-JAN-2010 05:21:16; Bright; 34.0; 119; 14Eta Dra ; 2.73; 4700;occ; 68; 0;41198  
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 7; -933.1; 16-JAN-2010 05:40:58; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;41198  
 8; -852.1; 16-JAN-2010 05:42:19; Bright; 33.5; 98; 13Zet Oph ; 2.57; 30000;occ; 67; 0;41198  
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12;	-78.5;	16-JAN-2010	05:55:12;	Dark	;	50.5;	54;	5The Cen	;	2.06;	4500;occ;	101;	0;	41198
13;	82.1;	16-JAN-2010	05:57:53;	Dark	;	54.0;	4;	Alp1Cen	;	-0.01;	5800;occ;	108;	0;	41199
14;	295.3;	16-JAN-2010	06:01:26;	Dark	;	41.5;	20;	Bet Cru	;	1.25;	30000;occ;	83;	0;	41199
15;	414.2;	16-JAN-2010	06:03:25;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	41199
16;	540.4;	16-JAN-2010	06:05:31;	Dark	;	39.5;	124;	The Car	;	2.76;	30000;occ;	79;	0;	41199
17;	621.7;	16-JAN-2010	06:06:53;	Dark	;	46.0;	29;	Bet Car	;	1.67;	10200;occ;	92;	0;	41199
18;	737.3;	16-JAN-2010	06:08:48;	Dark	;	39.5;	71;	Iot Car	;	2.25;	7700;occ;	79;	0;	41199
19;	849.0;	16-JAN-2010	06:10:40;	Dark	;	41.0;	46;	Del Vel	;	1.95;	10600;occ;	82;	0;	41199
20;	1011.6;	16-JAN-2010	06:13:23;	Dark	;	45.0;	34;	Gam2Vel	;	1.79;	23000;occ;	90;	0;	41199
21;	1140.0;	16-JAN-2010	06:15:31;	Dark	;	43.0;	70;	Zet Pup	;	2.25;	39000;occ;	86;	0;	41199
22;	1239.3;	16-JAN-2010	06:17:10;	Dark	;	43.5;	117;	Pi Pup	;	2.71;	3800;occ;	87;	0;	41199
23;	1392.1;	16-JAN-2010	06:19:43;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	41199
24;	1477.1;	16-JAN-2010	06:21:08;	Dark	;	41.0;	179;	240mi2CMA	;	3.03;	24000;occ;	82;	0;	41199
25;	1610.0;	16-JAN-2010	06:23:21;	Dark	;	48.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	96;	0;	41199
26;	2040.0;	16-JAN-2010	06:30:31;	Dark	;	44.0;	14;	58Alp Ori	;	0.87;	3000;occ;	88;	0;	41199
27;	2188.1;	16-JAN-2010	06:32:59;	Dark	;	36.5;	44;	24Gam Gem	;	1.93;	11000;occ;	73;	0;	41199
28;	2291.3;	16-JAN-2010	06:34:42;	Bright;	;	53.0;	151;	13Mu Gem	;	2.89;	3000;occ;	106;	0;	41199
29;	2540.5;	16-JAN-2010	06:38:51;	Bright;	;	37.0;	107;	37The Aur	;	2.65;	11000;occ;	74;	0;	41199
30;	2671.4;	16-JAN-2010	06:41:02;	Bright;	;	37.0;	42;	34Bet Aur	;	1.90;	10200;occ;	74;	0;	41199
31;	3425.3;	16-JAN-2010	06:53:36;	Bright;	;	38.0;	49;	1Alp UMi	;	1.99;	6300;occ;	76;	0;	41199
32;	3661.3;	16-JAN-2010	06:57:32;	Bright;	;	17.0;	60;	7Bet UMi	;	2.08;	3950;occ;	34;	0;	41199
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3;	1142.5;	16-JAN-2010	19:40:21;	Dark	;	42.5;	70;	Zet Pup	;	2.25;	39000;occ;	85;	0;	41207
4;	1241.1;	16-JAN-2010	19:42:00;	Dark	;	46.5;	117;	Pi Pup	;	2.71;	3800;occ;	93;	0;	41207
5;	1393.7;	16-JAN-2010	19:44:32;	Dark	;	42.5;	23;	21Eps CMA	;	1.50;	26000;occ;	85;	0;	41207
6;	1478.5;	16-JAN-2010	19:45:57;	Dark	;	39.5;	179;	240mi2CMA	;	3.03;	24000;occ;	79;	0;	41207
7;	1611.1;	16-JAN-2010	19:48:10;	Dark	;	36.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	72;	0;	41207
8;	2040.9;	16-JAN-2010	19:55:19;	Dark	;	47.5;	14;	58Alp Ori	;	0.87;	3000;occ;	95;	0;	41207
9;	2187.6;	16-JAN-2010	19:57:46;	Dark	;	54.0;	44;	24Gam Gem	;	1.93;	11000;occ;	108;	0;	41207
10;	2291.2;	16-JAN-2010	19:59:30;	Bright;	;	43.0;	151;	13Mu Gem	;	2.89;	3000;occ;	86;	0;	41207
11;	2540.7;	16-JAN-2010	20:03:39;	Bright;	;	37.0;	107;	37The Aur	;	2.65;	11000;occ;	74;	0;	41207
12;	2671.5;	16-JAN-2010	20:05:50;	Bright;	;	38.0;	42;	34Bet Aur	;	1.90;	10200;occ;	76;	0;	41207
13;	3425.1;	16-JAN-2010	20:18:24;	Bright;	;	37.0;	49;	1Alp UMi	;	1.99;	6300;occ;	74;	0;	41207
14;	3659.6;	16-JAN-2010	20:22:18;	Bright;	;	36.5;	60;	7Bet UMi	;	2.08;	3950;occ;	73;	0;	41207
15;	3920.9;	16-JAN-2010	20:26:39;	Bright;	;	54.0;	119;	14Eta Dra	;	2.73;	4700;occ;	108;	0;	41207
16;	4078.4;	16-JAN-2010	20:29:17;	Bright;	;	33.5;	130;	23Bet Dra	;	2.80;	5800;occ;	67;	0;	41207
17;	4456.3;	16-JAN-2010	20:35:35;	Bright;	;	36.5;	133;	40Zet Her	;	2.81;	6000;occ;	73;	0;	41207
18;	4644.3;	16-JAN-2010	20:38:43;	Bright;	;	37.0;	127;	27Bet Her	;	2.78;	4700;occ;	74;	0;	41207
19;	4980.5;	16-JAN-2010	20:44:19;	Bright;	;	63.0;	102;	24Alp Ser	;	2.60;	4250;occ;	126;	0;	41207
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2;	-848.8;	16-JAN-2010	20:47:46;	Bright;	;	54.0;	98;	13Zet Oph	;	2.57;	30000;occ;	108;	0;	41207
3;	-581.1;	16-JAN-2010	20:52:13;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	41207
4;	-262.9;	16-JAN-2010	20:57:31;	Dark	;	40.5;	131;	Gam Lup	;	2.80;	26000;occ;	81;	0;	41207
5;	-155.2;	16-JAN-2010	20:59:19;	Dark	;	40.0;	109;	Bet Lup	;	2.68;	26000;occ;	80;	0;	41207
6;	-69.3;	16-JAN-2010	21:00:45;	Dark	;	31.0;	54;	5The Cen	;	2.06;	4500;occ;	62;	0;	41207
7;	86.2;	16-JAN-2010	21:03:21;	Dark	;	40.5;	4;	Alp1Cen	;	-0.01;	5800;occ;	81;	0;	41208
8;	300.9;	16-JAN-2010	21:06:55;	Dark	;	44.5;	20;	Bet Cru	;	1.25;	30000;occ;	89;	0;	41208
9;	422.6;	16-JAN-2010	21:08:57;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	41208
10;	544.6;	16-JAN-2010	21:10:59;	Dark	;	39.0;	124;	The Car	;	2.76;	30000;occ;	78;	0;	41208
11;	628.9;	16-JAN-2010	21:12:23;	Dark	;	38.5;	159;	Ups Car	;	2.92;	7200;occ;	77;	0;	41208
12;	741.0;	16-JAN-2010	21:14:15;	Dark	;	40.5;	71;	Iot Car	;	2.25;	7700;occ;	81;	0;	41208
13;	852.5;	16-JAN-2010	21:16:07;	Dark	;	45.0;	46;	Del Vel	;	1.95;	10600;occ;	90;	0;	41208
14;	1014.8;	16-JAN-2010	21:18:49;	Dark	;	41.5;	34;	Gam2Vel	;	1.79;	23000;occ;	83;	0;	41208
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17;	1393.8;	16-JAN-2010	21:25:08;	Dark	;	43.0;	23;	21Eps CMA	;	1.50;	26000;occ;	86;	0;	41208
18;	1478.6;	16-JAN-2010	21:26:33;	Dark	;	40.5;	179;	240mi2CMA	;	3.03;	24000;occ;	81;	0;	41208
19;	1611.3;	16-JAN-2010	21:28:46;	Dark	;	36.0;	1;	9Alp CMA	;	-1.44;	11000;occ;	72;	0;	41208
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21;	2187.4;	16-JAN-2010	21:38:22;	Dark	;	54.0;	44;	24Gam Gem	;	1.93;	11000;occ;	108;	0;	41208
22;	2291.2;	16-JAN-2010	21:40:06;	Bright;	;	41.0;	151;	13Mu Gem	;	2.89;	3000;occ;	82;	0;	41208
23;	2540.5;	16-JAN-2010	21:44:15;	Bright;	;	38.0;	107;	37The Aur	;	2.65;	11000;occ;	76;	0;	41208



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 26; 3659.7; 16-JAN-2010 22:02:54; Bright; 37.5; 60; 7Bet UMi ; 2.08; 3950;occ; 75; 0;41208  
 27; 3921.0; 16-JAN-2010 22:07:15; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;41208  
 28; 4078.5; 16-JAN-2010 22:09:53; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41208  
 29; 4456.7; 16-JAN-2010 22:16:11; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;41208  
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 32; 5107.1; 16-JAN-2010 22:27:01; Bright; 57.0; 120; 1Del Oph ; 2.73; 3200;occ; 114; 0;41208  
 33; 5187.4; 16-JAN-2010 22:28:22; Bright; 50.5; 98; 13Zet Oph ; 2.57; 30000;occ; 101; 0;41208

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 6; 301.4; 16-JAN-2010 22:47:32; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;41209  
 7; 423.5; 16-JAN-2010 22:49:34; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41209  
 8; 545.2; 16-JAN-2010 22:51:35; Dark ; 39.5; 124; The Car ; 2.76; 30000;occ; 79; 0;41209  
 9; 629.2; 16-JAN-2010 22:52:59; Dark ; 37.5; 159; Ups Car ; 2.92; 7200;occ; 75; 0;41209  
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 14; 1241.6; 16-JAN-2010 23:03:12; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41209  
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 26; 4078.6; 16-JAN-2010 23:50:29; Bright; 52.0; 130; 23Bet Dra ; 2.80; 5800;occ; 104; 0;41209  
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 31; 5187.8; 17-JAN-2010 00:08:58; Bright; 53.5; 98; 13Zet Oph ; 2.57; 30000;occ; 107; 0;41209

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 10; -267.1; 16-JAN-2010 07:32:40; Dark ; 39.5; 131; Gam Lup ; 2.80; 26000;occ; 79; 0;41199  
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 16; 625.6; 16-JAN-2010 07:47:33; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41200  
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7; 1994.4; 25-JAN-2010 20:11:47; Dark ; 51.0; 8; 10Alp CMi ; 0.40; 6500;occ; 102; 0;41336
8; 2189.0; 25-JAN-2010 20:15:02; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41336
9; 2296.2; 25-JAN-2010 20:16:49; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;41336
10; 2411.5; 25-JAN-2010 20:18:44; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;41336
11; 2678.3; 25-JAN-2010 20:23:11; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;41336
12; 3426.5; 25-JAN-2010 20:35:39; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41336
13; 3634.4; 25-JAN-2010 20:39:07; Bright; 34.5; 60; 7Bet UMi ; 2.08; 3950;occ; 69; 0;41336
14; 3909.3; 25-JAN-2010 20:43:42; Bright; 42.0; 119; 14Eta Dra ; 2.73; 4700;occ; 84; 0;41336
15; 4086.1; 25-JAN-2010 20:46:39; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41336
16; 4474.4; 25-JAN-2010 20:53:07; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;41336
17; 4677.2; 25-JAN-2010 20:56:30; Bright; 43.5; 127; 27Bet Her ; 2.78; 4700;occ; 87; 0;41336
18; 4773.7; 25-JAN-2010 20:58:07; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;41336
19; 4900.5; 25-JAN-2010 21:00:13; Bright; 37.5; 126; 60Bet Oph ; 2.77; 4250;occ; 75; 0;41336
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3; -519.2; 25-JAN-2010 21:10:30; Dark ; 56.0; 16; 21Alp Sco ; 1.02; 3000;occ; 112; 0;41336
4; -435.6; 25-JAN-2010 21:11:53; Dark ; 47.0; 75; 26Eps Sco ; 2.29; 4250;occ; 94; 0;41336
5; -182.6; 25-JAN-2010 21:16:06; Dark ; 43.0; 131; Gam Lup ; 2.80; 26000;occ; 86; 0;41336
6; -58.9; 25-JAN-2010 21:18:10; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;41336
7; 29.2; 25-JAN-2010 21:19:38; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;41337
8; 148.3; 25-JAN-2010 21:21:37; Dark ; 42.0; 4; Alp1Cen ;-0.01; 5800;occ; 84; 0;41337
9; 242.8; 25-JAN-2010 21:23:12; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;41337
10; 422.2; 25-JAN-2010 21:26:11; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;41337
11; 538.4; 25-JAN-2010 21:28:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41337
12; 678.3; 25-JAN-2010 21:30:27; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41337
13; 792.8; 25-JAN-2010 21:32:22; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;41337
14; 900.7; 25-JAN-2010 21:34:09; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41337
15; 1056.3; 25-JAN-2010 21:36:45; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41337
16; 1182.7; 25-JAN-2010 21:38:51; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;41337
17; 1270.6; 25-JAN-2010 21:40:19; Dark ; 41.5; 117; Pi Pup ; 2.71; 3800;occ; 83; 0;41337
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19; 1501.1; 25-JAN-2010 21:44:10; Dark ; 38.0; 179; 240mi2CMa ; 3.03; 24000;occ; 76; 0;41337
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21; 2189.0; 25-JAN-2010 21:55:38; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41337
22; 2296.5; 25-JAN-2010 21:57:25; Bright; 40.0; 151; 13Mu Gem ; 2.89; 3000;occ; 80; 0;41337
23; 2410.9; 25-JAN-2010 21:59:20; Bright; 44.0; 17; 78Bet Gem ; 1.16; 4500;occ; 88; 0;41337

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 25; 3426.7; 25-JAN-2010 22:16:16; Bright; 32.0; 49; 1Alp UMi ; 1.99; 6300;occ; 64; 0;41337  
 26; 3634.1; 25-JAN-2010 22:19:43; Bright; 41.0; 60; 7Bet UMi ; 2.08; 3950;occ; 82; 0;41337  
 27; 3909.0; 25-JAN-2010 22:24:18; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41337  
 28; 4085.9; 25-JAN-2010 22:27:15; Bright; 51.0; 130; 23Bet Dra ; 2.80; 5800;occ; 102; 0;41337  
 29; 4474.8; 25-JAN-2010 22:33:44; Bright; 42.0; 133; 40Zet Her ; 2.81; 6000;occ; 84; 0;41337  
 30; 4677.3; 25-JAN-2010 22:37:06; Bright; 41.5; 127; 27Bet Her ; 2.78; 4700;occ; 83; 0;41337  
 31; 4774.0; 25-JAN-2010 22:38:43; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;41337  
 32; 4900.8; 25-JAN-2010 22:40:50; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;41337  
 33; 5177.4; 25-JAN-2010 22:45:26; Dark ; 53.5; 120; 1Del Oph ; 2.73; 3200;occ; 107; 0;41337  
 34; 5275.1; 25-JAN-2010 22:47:04; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;41337

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 9; 539.2; 25-JAN-2010 23:08:44; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41338  
 10; 678.6; 25-JAN-2010 23:11:03; Dark ; 43.0; 159; Ups Car ; 2.92; 7200;occ; 86; 0;41338  
 11; 793.2; 25-JAN-2010 23:12:58; Dark ; 50.0; 71; Iot Car ; 2.25; 7700;occ; 100; 0;41338  
 12; 901.0; 25-JAN-2010 23:14:46; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;41338  
 13; 1056.6; 25-JAN-2010 23:17:21; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;41338  
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 16; 1395.6; 25-JAN-2010 23:23:00; Dark ; 38.5; 88; 31Eta CMa ; 2.45; 20000;occ; 77; 0;41338  
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 18; 1994.3; 25-JAN-2010 23:32:59; Dark ; 49.0; 8; 10Alp CMi ; 0.40; 6500;occ; 98; 0;41338  
 19; 2189.3; 25-JAN-2010 23:36:14; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41338  
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 21; 2411.0; 25-JAN-2010 23:39:56; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;41338  
 22; 2678.3; 25-JAN-2010 23:44:23; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;41338  
 23; 3426.7; 25-JAN-2010 23:56:51; Bright; 35.5; 49; 1Alp UMi ; 1.99; 6300;occ; 71; 0;41338  
 24; 3633.7; 26-JAN-2010 00:00:18; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;41338  
 25; 3909.2; 26-JAN-2010 00:04:54; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41338  
 26; 4086.0; 26-JAN-2010 00:07:51; Bright; 38.0; 130; 23Bet Dra ; 2.80; 5800;occ; 76; 0;41338  
 27; 4474.8; 26-JAN-2010 00:14:19; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;41338  
 28; 4677.7; 26-JAN-2010 00:17:42; Bright; 43.0; 127; 27Bet Her ; 2.78; 4700;occ; 86; 0;41338  
 29; 4774.0; 26-JAN-2010 00:19:19; Bright; 35.0; 59; 55Alp Oph ; 2.08; 8900;occ; 70; 0;41338  
 30; 4900.9; 26-JAN-2010 00:21:26; Bright; 52.0; 126; 60Bet Oph ; 2.77; 4250;occ; 104; 0;41338  
 31; 5177.9; 26-JAN-2010 00:26:03; Dark ; 53.5; 120; 1Del Oph ; 2.73; 3200;occ; 107; 0;41338  
 32; 5275.4; 26-JAN-2010 00:27:40; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41338

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 3; -1949.8; 25-JAN-2010 07:21:52; Bright; 46.0; 130; 23Bet Dra ; 2.80; 5800;occ; 92; 0;41328  
 4; -1562.4; 25-JAN-2010 07:28:19; Bright; 44.0; 133; 40Zet Her ; 2.81; 6000;occ; 88; 0;41328  
 5; -1360.9; 25-JAN-2010 07:31:41; Bright; 60.0; 127; 27Bet Her ; 2.78; 4700;occ; 120; 0;41328  
 6; -1264.2; 25-JAN-2010 07:33:17; Bright; 34.5; 59; 55Alp Oph ; 2.08; 8900;occ; 69; 0;41328  
 7; -1137.2; 25-JAN-2010 07:35:24; Bright; 34.0; 126; 60Bet Oph ; 2.77; 4250;occ; 68; 0;41328  
 8; -764.0; 25-JAN-2010 07:41:37; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41328  
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 11; -188.0; 25-JAN-2010 07:51:13; Dark ; 41.0; 131; Gam Lup ; 2.80; 26000;occ; 82; 0;41328  
 12; 23.3; 25-JAN-2010 07:54:45; Dark ; 43.5; 78; Alp Lup ; 2.30; 28000;occ; 87; 0;41329  
 13; 143.9; 25-JAN-2010 07:56:45; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41329  
 14; 236.6; 25-JAN-2010 07:58:18; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;41329  
 15; 417.8; 25-JAN-2010 08:01:19; Dark ; 50.0; 12; Alp1Cru ; 0.77; 30000;occ; 100; 0;41329  
 16; 531.4; 25-JAN-2010 08:03:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41329  
 17; 675.7; 25-JAN-2010 08:05:37; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41329  
 18; 1180.5; 25-JAN-2010 08:14:02; Dark ; 39.0; 70; Zet Pup ; 2.25; 39000;occ; 78; 0;41329  
 19; 1499.9; 25-JAN-2010 08:19:21; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;41329

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 3; 2295.5; 25-JAN-2010 08:32:37; Bright; 52.0; 151; 13Mu Gem ; 2.89; 3000;occ; 104; 0;41329



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5; 2572.8; 25-JAN-2010 08:37:14; Bright; 13.5; 107; 37The Aur ; 2.65; 11000;occ; 27; 0;41329  
6; 2677.7; 25-JAN-2010 08:38:59; Bright; 36.5; 42; 34Bet Aur ; 1.90; 10200;occ; 73; 0;41329  
7; 3426.6; 25-JAN-2010 08:51:28; Bright; 34.0; 49; 1Alp UMi ; 1.99; 6300;occ; 68; 0;41329  
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13; 4772.1; 25-JAN-2010 09:13:53; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;41329  
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21; 6273.4; 25-JAN-2010 09:38:55; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41329  
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23; 6568.2; 25-JAN-2010 09:43:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41329  
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22; 6569.0; 25-JAN-2010 11:24:26; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41330  
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25; 7305.6; 25-JAN-2010 11:36:43; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;41330  
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27; 7098.8; 27-JAN-2010 10:30:02; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;41358
28; 7224.2; 27-JAN-2010 10:32:07; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;41358
29; 7435.5; 27-JAN-2010 10:35:39; Dark ; 39.0; 88; 31Eta CMA ; 2.45; 20000;occ; 78; 0;41358
30; 7540.7; 27-JAN-2010 10:37:24; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;41358
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4; 2298.8; 27-JAN-2010 10:50:38; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;41359  
5; 2405.9; 27-JAN-2010 10:52:25; Bright; 42.5; 17; 78Bet Gem ; 1.16; 4500;occ; 85; 0;41359  
6; 3427.4; 27-JAN-2010 11:09:26; Bright; 37.5; 49; 1Alp UMi ; 1.99; 6300;occ; 75; 0;41359  
7; 3629.2; 27-JAN-2010 11:12:48; Bright; 44.0; 60; 7Bet UMi ; 2.08; 3950;occ; 88; 0;41359  
8; 3906.6; 27-JAN-2010 11:17:26; Bright; 39.5; 119; 14Eta Dra ; 2.73; 4700;occ; 79; 0;41359  
9; 4086.6; 27-JAN-2010 11:20:26; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41359  
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12; 4779.4; 27-JAN-2010 11:31:58; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;41359  
13; 4906.4; 27-JAN-2010 11:34:05; Bright; 42.5; 126; 60Bet Oph ; 2.77; 4250;occ; 85; 0;41359  
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15; 5284.1; 27-JAN-2010 11:40:23; Dark ; 43.5; 86; 35Eta Oph ; 2.43; 10200;occ; 87; 0;41359  
16; 5530.5; 27-JAN-2010 11:44:30; Dark ; 55.0; 16; 21Alp Sco ; 1.02; 3000;occ; 110; 0;41359  
17; 5610.9; 27-JAN-2010 11:45:50; Dark ; 41.0; 75; 26Eps Sco ; 2.29; 4250;occ; 82; 0;41359  
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25; 6722.5; 27-JAN-2010 12:04:22; Dark ; 38.0; 159; Ups Car ; 2.92; 7200;occ; 76; 0;41359  
26; 6837.4; 27-JAN-2010 12:06:16; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;41359  
27; 6944.3; 27-JAN-2010 12:08:03; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41359  
28; 7098.9; 27-JAN-2010 12:10:38; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41359  
29; 7224.6; 27-JAN-2010 12:12:44; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;41359  
30; 7495.2; 27-JAN-2010 12:17:14; Dark ; 43.0; 37; 25Del CMa ; 1.83; 5900;occ; 86; 0;41359

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3; 2299.4; 27-JAN-2010 12:31:14; Bright; 38.0; 151; 13Mu Gem ; 2.89; 3000;occ; 76; 0;41360  
4; 2405.6; 27-JAN-2010 12:33:00; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;41360  
5; 3426.9; 27-JAN-2010 12:50:02; Bright; 35.0; 49; 1Alp UMi ; 1.99; 6300;occ; 70; 0;41360  
6; 3629.1; 27-JAN-2010 12:53:24; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41360  
7; 3906.7; 27-JAN-2010 12:58:02; Bright; 42.5; 119; 14Eta Dra ; 2.73; 4700;occ; 85; 0;41360  
8; 4086.6; 27-JAN-2010 13:01:01; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41360  
9; 4478.2; 27-JAN-2010 13:07:33; Bright; 41.5; 133; 40Zet Her ; 2.81; 6000;occ; 83; 0;41360  
10; 4684.3; 27-JAN-2010 13:10:59; Bright; 44.5; 127; 27Bet Her ; 2.78; 4700;occ; 89; 0;41360  
11; 4779.7; 27-JAN-2010 13:12:35; Bright; 47.0; 59; 55Alp Oph ; 2.08; 8900;occ; 94; 0;41360  
12; 4906.7; 27-JAN-2010 13:14:42; Bright; 35.0; 126; 60Bet Oph ; 2.77; 4250;occ; 70; 0;41360  
13; 5193.2; 27-JAN-2010 13:19:28; Dark ; 52.0; 120; 1Del Oph ; 2.73; 3200;occ; 104; 0;41360  
14; 5284.8; 27-JAN-2010 13:21:00; Dark ; 40.0; 86; 35Eta Oph ; 2.43; 10200;occ; 80; 0;41360  
15; 5530.7; 27-JAN-2010 13:25:06; Dark ; 47.5; 16; 21Alp Sco ; 1.02; 3000;occ; 95; 0;41360  
16; 5611.3; 27-JAN-2010 13:26:26; Dark ; 41.5; 75; 26Eps Sco ; 2.29; 4250;occ; 83; 0;41360  
17; 5870.6; 27-JAN-2010 13:30:45; Dark ; 42.0; 131; Gam Lup ; 2.80; 26000;occ; 84; 0;41360  
18; 5996.9; 27-JAN-2010 13:32:52; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;41360  
19; 6084.3; 27-JAN-2010 13:34:19; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;41360  
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21; 6297.2; 27-JAN-2010 13:37:52; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41360  
22; 6471.6; 27-JAN-2010 13:40:46; Dark ; 39.0; 12; Alp1Cru ; 0.77; 30000;occ; 78; 0;41360  
23; 6594.8; 27-JAN-2010 13:42:50; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41360  
24; 6723.1; 27-JAN-2010 13:44:58; Dark ; 39.5; 159; Ups Car ; 2.92; 7200;occ; 79; 0;41360  
25; 6837.6; 27-JAN-2010 13:46:52; Dark ; 46.0; 71; Iot Car ; 2.25; 7700;occ; 92; 0;41360  
26; 6944.6; 27-JAN-2010 13:48:39; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41360  
27; 7099.2; 27-JAN-2010 13:51:14; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;41360  
28; 7224.9; 27-JAN-2010 13:53:20; Dark ; 42.5; 70; Zet Pup ; 2.25; 39000;occ; 85; 0;41360  
29; 7495.1; 27-JAN-2010 13:57:50; Dark ; 41.5; 37; 25Del CMa ; 1.83; 5900;occ; 83; 0;41360

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4; 2299.1; 27-JAN-2010 14:11:50; Bright; 38.5; 151; 13Mu Gem ; 2.89; 3000;occ; 77; 0;41361  
5; 2405.5; 27-JAN-2010 14:13:36; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;41361  
6; 3427.2; 27-JAN-2010 14:30:38; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41361  
7; 3628.9; 27-JAN-2010 14:34:00; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;41361  
8; 3906.3; 27-JAN-2010 14:38:37; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;41361

9; 4086.8; 27-JAN-2010 14:41:38; Bright; 37.0; 130; 23Bet Dra ; 2.80; 5800;occ; 74; 0;41361  
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 12; 4780.1; 27-JAN-2010 14:53:11; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;41361  
 13; 4907.0; 27-JAN-2010 14:55:18; Bright; 34.5; 126; 60Bet Oph ; 2.77; 4250;occ; 69; 0;41361  
 14; 5193.7; 27-JAN-2010 15:00:04; Dark ; 55.5; 120; 1Del Oph ; 2.73; 3200;occ; 111; 0;41361  
 15; 5285.2; 27-JAN-2010 15:01:36; Dark ; 41.0; 86; 35Eta Oph ; 2.43; 10200;occ; 82; 0;41361  
 16; 5531.6; 27-JAN-2010 15:05:42; Dark ; 49.0; 16; 21Alp Sco ; 1.02; 3000;occ; 98; 0;41361  
 17; 5611.7; 27-JAN-2010 15:07:02; Dark ; 45.0; 75; 26Eps Sco ; 2.29; 4250;occ; 90; 0;41361  
 18; 5871.4; 27-JAN-2010 15:11:22; Dark ; 41.5; 131; Gam Lup ; 2.80; 26000;occ; 83; 0;41361  
 19; 5997.9; 27-JAN-2010 15:13:29; Dark ; 43.5; 109; Bet Lup ; 2.68; 26000;occ; 87; 0;41361  
 20; 6085.1; 27-JAN-2010 15:14:56; Dark ; 44.0; 78; Alp Lup ; 2.30; 28000;occ; 88; 0;41361  
 21; 6197.2; 27-JAN-2010 15:16:48; Dark ; 43.5; 4; Alp1Cen ;-0.01; 5800;occ; 87; 0;41361  
 22; 6298.0; 27-JAN-2010 15:18:29; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;41361  
 23; 6472.1; 27-JAN-2010 15:21:23; Dark ; 38.5; 12; Alp1Cru ; 0.77; 30000;occ; 77; 0;41361  
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 25; 6723.2; 27-JAN-2010 15:25:34; Dark ; 45.5; 159; Ups Car ; 2.92; 7200;occ; 91; 0;41361  
 26; 6838.2; 27-JAN-2010 15:27:29; Dark ; 45.5; 71; Iot Car ; 2.25; 7700;occ; 91; 0;41361  
 27; 6945.1; 27-JAN-2010 15:29:16; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;41361  
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 3; 2191.4; 27-JAN-2010 15:50:38; Bright; 40.0; 44; 24Gam Gem ; 1.93; 11000;occ; 80; 0;41362  
 4; 2299.4; 27-JAN-2010 15:52:26; Bright; 40.5; 151; 13Mu Gem ; 2.89; 3000;occ; 81; 0;41362  
 5; 2405.4; 27-JAN-2010 15:54:12; Bright; 43.5; 17; 78Bet Gem ; 1.16; 4500;occ; 87; 0;41362  
 6; 3427.1; 27-JAN-2010 16:11:14; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41362  
 7; 3628.6; 27-JAN-2010 16:14:35; Bright; 41.5; 60; 7Bet UMi ; 2.08; 3950;occ; 83; 0;41362  
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 9; 4086.7; 27-JAN-2010 16:22:13; Bright; 36.5; 130; 23Bet Dra ; 2.80; 5800;occ; 73; 0;41362  
 10; 4478.2; 27-JAN-2010 16:28:45; Bright; 40.0; 133; 40Zet Her ; 2.81; 6000;occ; 80; 0;41362  
 11; 4684.9; 27-JAN-2010 16:32:12; Bright; 62.0; 127; 27Bet Her ; 2.78; 4700;occ; 124; 0;41362  
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 14; 5285.6; 27-JAN-2010 16:42:12; Dark ; 43.0; 86; 35Eta Oph ; 2.43; 10200;occ; 86; 0;41362  
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 16; 5612.2; 27-JAN-2010 16:47:39; Dark ; 49.5; 75; 26Eps Sco ; 2.29; 4250;occ; 99; 0;41362  
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 19; 6086.2; 27-JAN-2010 16:55:33; Dark ; 42.5; 78; Alp Lup ; 2.30; 28000;occ; 85; 0;41362  
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 23; 6596.7; 27-JAN-2010 17:04:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41362  
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 7; 2405.1; 27-JAN-2010 17:34:48; Bright; 43.0; 17; 78Bet Gem ; 1.16; 4500;occ; 86; 0;41363  
 8; 3427.1; 27-JAN-2010 17:51:50; Bright; 38.0; 49; 1Alp UMi ; 1.99; 6300;occ; 76; 0;41363  
 9; 3628.4; 27-JAN-2010 17:55:11; Bright; 45.0; 60; 7Bet UMi ; 2.08; 3950;occ; 90; 0;41363  
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 13; 4685.3; 27-JAN-2010 18:12:48; Bright; 42.5; 127; 27Bet Her ; 2.78; 4700;occ; 85; 0;41363  
 14; 4780.7; 27-JAN-2010 18:14:23; Bright; 53.0; 59; 55Alp Oph ; 2.08; 8900;occ; 106; 0;41363  
 15; 4907.6; 27-JAN-2010 18:16:30; Bright; 53.0; 126; 60Bet Oph ; 2.77; 4250;occ; 106; 0;41363  
 16; 5285.8; 27-JAN-2010 18:22:48; Dark ; 45.5; 86; 35Eta Oph ; 2.43; 10200;occ; 91; 0;41363  
 17; 5532.8; 27-JAN-2010 18:26:55; Dark ; 57.0; 16; 21Alp Sco ; 1.02; 3000;occ; 114; 0;41363  
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 22; 6198.2; 27-JAN-2010 18:38:01; Dark ; 42.0; 4; Alp1Cen ; -0.01; 5800;occ; 84; 0;41363  
 23; 6299.3; 27-JAN-2010 18:39:42; Dark ; 43.5; 77; Eps Cen ; 2.30; 28000;occ; 87; 0;41363  
 24; 6473.1; 27-JAN-2010 18:42:36; Dark ; 45.5; 12; Alp1Cru ; 0.77; 30000;occ; 91; 0;41363  
 25; 6597.5; 27-JAN-2010 18:44:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41363  
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18; 916.5; 29-JAN-2010 06:03:10; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;41385
19; 1069.7; 29-JAN-2010 06:05:43; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;41385
20; 1195.4; 29-JAN-2010 06:07:48; Dark ; 40.0; 70; Zet Pup ; 2.25; 39000;occ; 80; 0;41385
21; 1404.6; 29-JAN-2010 06:11:18; Dark ; 39.0; 88; 31Eta CMa ; 2.45; 20000;occ; 78; 0;41385
22; 1992.9; 29-JAN-2010 06:21:06; Dark ; 47.0; 8; 10Alp CMi ; 0.40; 6500;occ; 94; 0;41385
23; 2194.0; 29-JAN-2010 06:24:27; Bright; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;41385
24; 2337.7; 29-JAN-2010 06:26:51; Bright; 52.0; 170; 27Eps Gem ; 3.00; 9700;occ; 104; 0;41385
25; 2461.4; 29-JAN-2010 06:28:54; Bright; 41.0; 24; 66Alp Gem ; 1.58; 10200;occ; 82; 0;41385
26; 3427.2; 29-JAN-2010 06:45:00; Bright; 36.0; 49; 1Alp UMi ; 1.99; 6300;occ; 72; 0;41385
27; 3623.0; 29-JAN-2010 06:48:16; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;41385

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4; 4.7; 31-JAN-2010 01:23:32; Dark ; 44.5; 109; Bet Lup ; 2.68; 26000;occ; 89; 0;41411
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12; 924.3; 31-JAN-2010 01:38:51; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;41411
13; 1076.4; 31-JAN-2010 01:41:23; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;41411
14; 1201.7; 31-JAN-2010 01:43:29; Dark ; 41.5; 70; Zet Pup ; 2.25; 39000;occ; 83; 0;41411
15; 1411.4; 31-JAN-2010 01:46:58; Dark ; 38.5; 88; 31Eta CMa ; 2.45; 20000;occ; 77; 0;41411
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21; 3898.6; 31-JAN-2010 02:28:26; Bright; 41.5; 119; 14Eta Dra ; 2.73; 4700;occ; 83; 0;41411
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 39; 7112.6; 31-JAN-2010 03:22:00; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;41411  
 40; 7237.9; 31-JAN-2010 03:24:05; Dark ; 40.5; 70; Zet Pup ; 2.25; 39000;occ; 81; 0;41411  
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3; 2337.9; 29-JAN-2010 09:48:03; Bright; 38.5; 170; 27Eps Gem ; 3.00; 9700;occ; 77; 0;41387
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5; 3.8; 30-JAN-2010 23:42:55; Dark ; 43.0; 109; Bet Lup ; 2.68; 26000;occ; 86; 0;41410
6; 96.4; 30-JAN-2010 23:44:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;41410
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8; 299.3; 30-JAN-2010 23:47:50; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;41410
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13; 924.1; 30-JAN-2010 23:58:15; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;41410
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22; 3899.1; 31-JAN-2010 00:47:50; Bright; 41.0; 119; 14Eta Dra ; 2.73; 4700;occ; 82; 0;41410
23; 4087.0; 31-JAN-2010 00:50:58; Bright; 41.0; 130; 23Bet Dra ; 2.80; 5800;occ; 82; 0;41410
24; 4302.8; 31-JAN-2010 00:54:34; Bright; 35.5; 5; 3Alp Lyr ; 0.03; 11000;occ; 71; 0;41410
25; 4485.4; 31-JAN-2010 00:57:36; Bright; 43.5; 133; 40Zet Her ; 2.81; 6000;occ; 87; 0;41410
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3; -1949.0; 30-JAN-2010 06:24:23; Bright; 38.5; 130; 23Bet Dra ; 2.80; 5800;occ; 77; 0;41399
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19; 921.4; 30-JAN-2010 07:12:13; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;41400  
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7; 3900.4; 30-JAN-2010 08:01:52; Bright; 40.0; 119; 14Eta Dra ; 2.73; 4700;occ; 80; 0;41400  
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14; 5556.2; 30-JAN-2010 08:29:28; Dark ; 48.5; 16; 21Alp Sco ; 1.02; 3000;occ; 97; 0;41400  
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17; 6217.9; 30-JAN-2010 08:40:30; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;41400  
18; 6328.4; 30-JAN-2010 08:42:20; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;41400  
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21; 6736.6; 30-JAN-2010 08:49:08; Dark ; 38.5; 159; Ups Car ; 2.92; 7200;occ; 77; 0;41400  
22; 6851.8; 30-JAN-2010 08:51:04; Dark ; 44.5; 71; Iot Car ; 2.25; 7700;occ; 89; 0;41400  
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22; 6852.1; 30-JAN-2010 10:31:40; Dark ; 37.5; 71; Iot Car ; 2.25; 7700;occ; 75; 0;41401



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26; 7235.8; 30-JAN-2010 12:18:39; Dark ; 39.5; 70; Zet Pup ; 2.25; 39000;occ; 79; 0;41402
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26; 7111.1; 30-JAN-2010 15:37:46; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;41404  
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9; 4087.2; 30-JAN-2010 18:08:35; Bright; 39.5; 130; 23Bet Dra ; 2.80; 5800;occ; 79; 0;41406  
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