

# GOMOS Daily Report 03-DEC-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 | 14DEC2010 15:24:02 |
| Data source version       | GOMOS/5.01         |
| Start time of products    | 03DEC2010 00:02:04 |
| Stop time of products     | 03DEC2010 23:54:14 |
| Store outputs in DB       | No                 |
| Nb of level 1b prods      | 162                |
| Nb of prods with errors   | 0                  |

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

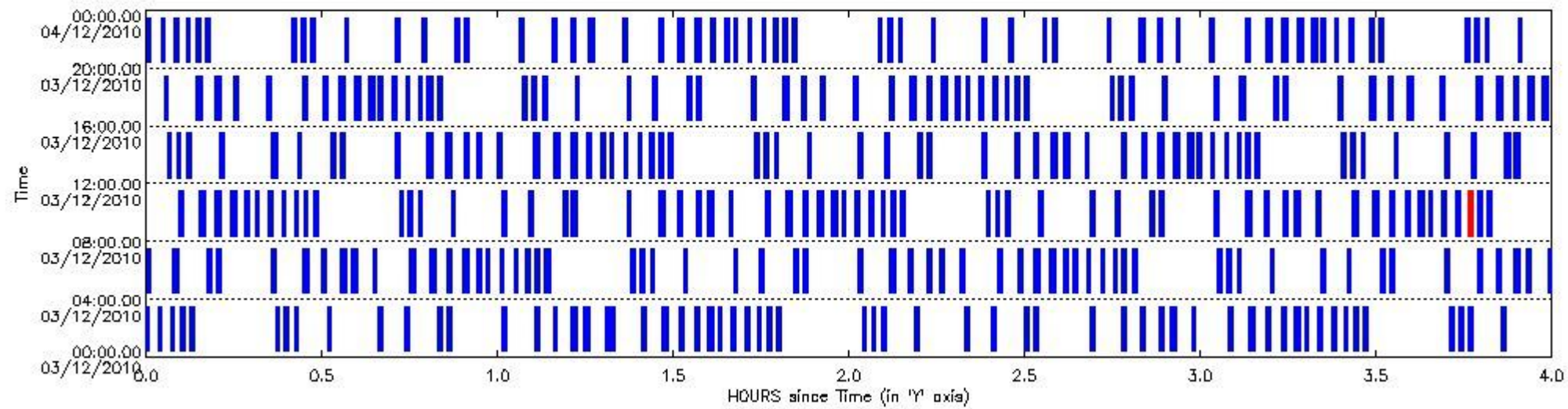
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 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 |
|----------------------|-----------|---------|-------|
| 03-DEC-2010 11:45:40 | 39DelPer  | 175     | 45799 |

### 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_1PNPDE20101203_000204_000000373097_00088_45792_2977.N1 | 03-DEC-2010 00:02:04 | Bright | 37.000   | 149     | 45Eps Per | 2.8880   | 30000.    | 74      | 45792 | No          |
| 2  | GOM_TRA_1PNPDE20101203_000407_000000353097_00088_45792_2978.N1 | 03-DEC-2010 00:04:07 | Bright | 35.000   | 175     | 39Del Per | 3.0100   | 19400.    | 70      | 45792 | No          |
| 3  | GOM_TRA_1PNPDE20101203_000544_000000493097_00088_45792_2979.N1 | 03-DEC-2010 00:05:44 | Bright | 49.000   | 6       | 13Alp Aur | 0.080000 | 3400.0    | 98      | 45792 | No          |
| 4  | GOM_TRA_1PNPDE20101203_000724_000000513097_00088_45792_2980.N1 | 03-DEC-2010 00:07:24 | Bright | 50.500   | 42      | 34Bet Aur | 1.9000   | 10200.    | 101     | 45792 | No          |
| 5  | GOM_TRA_1PNPDE20101203_002201_000000463097_00088_45792_2981.N1 | 03-DEC-2010 00:22:01 | Bright | 46.000   | 36      | 50Alp UMa | 1.8000   | 6300.0    | 92      | 45792 | No          |
| 6  | GOM_TRA_1PNPDE20101203_002335_000000483097_00088_45792_2982.N1 | 03-DEC-2010 00:23:35 | Bright | 47.500   | 82      | 48Bet UMa | 2.3650   | 10600.    | 95      | 45792 | No          |
| 7  | GOM_TRA_1PNPDE20101203_002521_000000403097_00088_45792_2983.N1 | 03-DEC-2010 00:25:21 | Bright | 39.500   | 32      | 77Eps UMa | 1.7630   | 11000.    | 79      | 45792 | No          |
| 8  | GOM_TRA_1PNPDE20101203_003057_000000403097_00088_45792_2984.N1 | 03-DEC-2010 00:30:57 | Bright | 40.000   | 152     | 12Alp2CVn | 2.8900   | 11000.    | 80      | 45792 | No          |
| 9  | GOM_TRA_1PNPDE20101203_003937_000000433097_00088_45792_2985.N1 | 03-DEC-2010 00:39:37 | Bright | 42.500   | 138     | 47Eps Vir | 2.8280   | 4700.0    | 85      | 45792 | No          |
| 10 | GOM_TRA_1PNPDE20101203_004402_000000463097_00088_45792_2986.N1 | 03-DEC-2010 00:44:02 | Bright | 46.000   | 121     | 29Gam Vir | 2.7400   | 7200.0    | 92      | 45792 | No          |

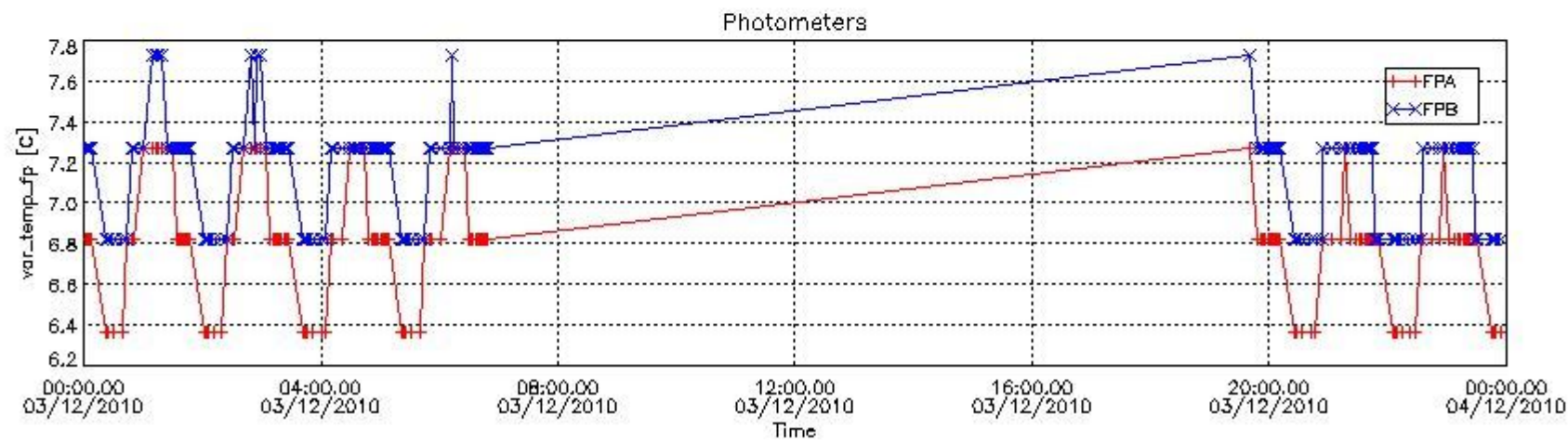
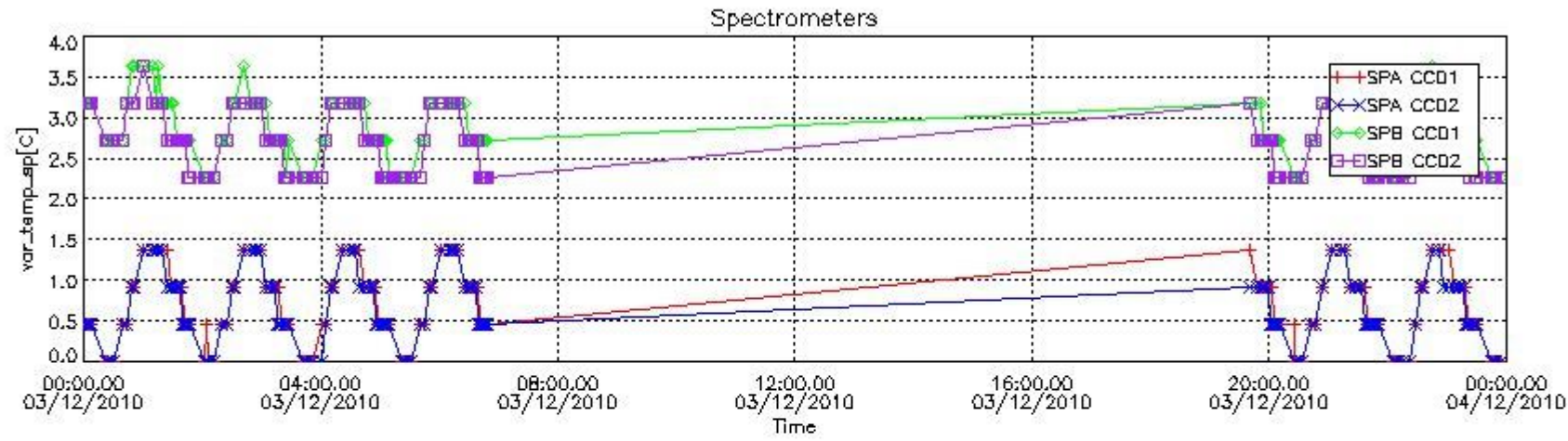
|    |  |                      |                |        |     |           |          |        |     |       |    |
|----|--|----------------------|----------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 11 | GOM_TRA_1PNPDE20101203_004946_000000503097_00088_45792_3015.N1 | 03-DEC-2010 00:49:46 | Dark           | 49.500 | 100 | 4Gam Crv  | 2.5800   | 13100. | 99  | 45792 | No |
| 12 | GOM_TRA_1PNPDE20101203_005122_000000533097_00088_45792_3016.N1 | 03-DEC-2010 00:51:22 | Dark           | 53.000 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 106 | 45792 | No |
| 13 | GOM_TRA_1PNPDE20101203_010048_000000453097_00089_45793_3017.N1 | 03-DEC-2010 01:00:48 | Dark           | 45.000 | 113 | Mu Vel    | 2.6920   | 5000.0 | 90  | 45793 | No |
| 14 | GOM_TRA_1PNPDE20101203_010925_000000483097_00089_45793_3018.N1 | 03-DEC-2010 01:09:25 | Dark           | 47.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 95  | 45793 | No |
| 15 | GOM_TRA_1PNPDE20101203_011236_000000553097_00089_45793_3019.N1 | 03-DEC-2010 01:12:36 | Dark           | 54.500 | 2   | Alp Car   | -0.73600 | 7000.0 | 109 | 45793 | No |
| 16 | GOM_TRA_1PNPDE20101203_011435_000000603097_00089_45793_3020.N1 | 03-DEC-2010 01:14:35 | Dark           | 60.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 120 | 45793 | No |
| 17 | GOM_TRA_1PNPDE20101203_011818_000000313097_00089_45793_3021.N1 | 03-DEC-2010 01:18:18 | Dark           | 31.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 62  | 45793 | No |
| 18 | GOM_TRA_1PNPDE20101203_011912_000000533097_00089_45793_3022.N1 | 03-DEC-2010 01:19:12 | Dark           | 52.500 | 177 | 1Zet CMa  | 3.0220   | 26000. | 105 | 45793 | No |
| 19 | GOM_TRA_1PNPDE20101203_012431_000000543097_00089_45793_3023.N1 | 03-DEC-2010 01:24:31 | Straylight     | 54.000 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 108 | 45793 | No |
| 20 | GOM_TRA_1PNPDE20101203_012801_000000583097_00089_45793_3024.N1 | 03-DEC-2010 01:28:01 | Straylight     | 57.500 | 7   | 19Bet Ori | 0.10000  | 14000. | 115 | 45793 | No |
| 21 | GOM_TRA_1PNPDE20101203_013052_000000473097_00089_45793_3025.N1 | 03-DEC-2010 01:30:52 | Tw_i_and_stray | 47.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 94  | 45793 | No |
| 22 | GOM_TRA_1PNPDE20101203_013331_000000613097_00089_45793_3026.N1 | 03-DEC-2010 01:33:31 | Tw_i_and_stray | 60.500 | 27  | 24Gam Ori | 1.6360   | 26000. | 121 | 45793 | No |
| 23 | GOM_TRA_1PNPDE20101203_013553_000000613097_00089_45793_3027.N1 | 03-DEC-2010 01:35:53 | Bright         | 61.000 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 122 | 45793 | No |
| 24 | GOM_TRA_1PNPDE20101203_013734_000000393097_00089_45793_3028.N1 | 03-DEC-2010 01:37:34 | Bright         | 39.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 78  | 45793 | No |
| 25 | GOM_TRA_1PNPDE20101203_013954_000000393097_00089_45793_3029.N1 | 03-DEC-2010 01:39:54 | Bright         | 39.000 | 150 | 44Zet Per | 2.8900   | 28000. | 78  | 45793 | No |
| 26 | GOM_TRA_1PNPDE20101203_014218_000000383097_00089_45793_3030.N1 | 03-DEC-2010 01:42:18 | Bright         | 37.500 | 149 | 45Eps Per | 2.8880   | 30000. | 75  | 45793 | No |
| 27 | GOM_TRA_1PNPDE20101203_014421_000000363097_00089_45793_3031.N1 | 03-DEC-2010 01:44:21 | Bright         | 36.000 | 175 | 39Del Per | 3.0100   | 19400. | 72  | 45793 | No |
| 28 | GOM_TRA_1PNPDE20101203_014557_000000513097_00089_45793_3032.N1 | 03-DEC-2010 01:45:57 | Bright         | 50.500 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 101 | 45793 | No |
| 29 | GOM_TRA_1PNPDE20101203_014737_000000513097_00089_45793_3033.N1 | 03-DEC-2010 01:47:37 | Bright         | 50.500 | 42  | 34Bet Aur | 1.9000   | 10200. | 101 | 45793 | No |
| 30 | GOM_TRA_1PNPDE20101203_020214_000000413097_00089_45793_3034.N1 | 03-DEC-2010 02:02:14 | Bright         | 41.000 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 82  | 45793 | No |
| 31 | GOM_TRA_1PNPDE20101203_020349_000000463097_00089_45793_3035.N1 | 03-DEC-2010 02:03:49 | Bright         | 45.500 | 82  | 48Bet UMa | 2.3650   | 10600. | 91  | 45793 | No |
| 32 | GOM_TRA_1PNPDE20101203_020535_000000383097_00089_45793_3036.N1 | 03-DEC-2010 02:05:35 | Bright         | 38.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 76  | 45793 | No |
| 33 | GOM_TRA_1PNPDE20101203_021112_000000393097_00089_45793_3037.N1 | 03-DEC-2010 02:11:12 | Bright         | 39.000 | 152 | 12Alp2CVn | 2.8900   | 11000. | 78  | 45793 | No |
| 34 | GOM_TRA_1PNPDE20101203_021951_000000433097_00089_45793_3038.N1 | 03-DEC-2010 02:19:51 | Bright         | 43.000 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 86  | 45793 | No |
| 35 | GOM_TRA_1PNPDE20101203_022416_000000473097_00089_45793_3044.N1 | 03-DEC-2010 02:24:16 | Bright         | 46.500 | 121 | 29Gam Vir | 2.7400   | 7200.0 | 93  | 45793 | No |
| 36 | GOM_TRA_1PNPDE20101203_023001_000000493097_00089_45793_3045.N1 | 03-DEC-2010 02:30:01 | Dark           | 49.000 | 100 | 4Gam Crv  | 2.5800   | 13100. | 98  | 45793 | No |
| 37 | GOM_TRA_1PNPDE20101203_023137_000000493097_00089_45793_3046.N1 | 03-DEC-2010 02:31:37 | Dark           | 48.500 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 97  | 45793 | No |
| 38 | GOM_TRA_1PNPDE20101203_024102_000000483097_00090_45794_3047.N1 | 03-DEC-2010 02:41:02 | Dark           | 47.500 | 113 | Mu Vel    | 2.6920   | 5000.0 | 95  | 45794 | No |
| 39 | GOM_TRA_1PNPDE20101203_024940_000000543097_00090_45794_3048.N1 | 03-DEC-2010 02:49:40 | Dark           | 53.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 107 | 45794 | No |
| 40 | GOM_TRA_1PNPDE20101203_025251_000000503097_00090_45794_3049.N1 | 03-DEC-2010 02:52:51 | Dark           | 49.500 | 2   | Alp Car   | -0.73600 | 7000.0 | 99  | 45794 | No |
| 41 | GOM_TRA_1PNPDE20101203_025450_000000603097_00090_45794_3050.N1 | 03-DEC-2010 02:54:50 | Dark           | 60.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 120 | 45794 | No |
| 42 | GOM_TRA_1PNPDE20101203_025832_000000343097_00090_45794_3051.N1 | 03-DEC-2010 02:58:32 | Dark           | 34.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 68  | 45794 | No |
| 43 | GOM_TRA_1PNPDE20101203_030445_000000523097_00090_45794_3052.N1 | 03-DEC-2010 03:04:45 | Straylight     | 52.000 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 104 | 45794 | No |
| 44 | GOM_TRA_1PNPDE20101203_030815_000000583097_00090_45794_3053.N1 | 03-DEC-2010 03:08:15 | Straylight     | 57.500 | 7   | 19Bet Ori | 0.10000  | 14000. | 115 | 45794 | No |
| 45 | GOM_TRA_1PNPDE20101203_031106_000000543097_00090_45794_3054.N1 | 03-DEC-2010 03:11:06 | Tw_i_and_stray | 54.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 108 | 45794 | No |
| 46 | GOM_TRA_1PNPDE20101203_031345_000000613097_00090_45794_3055.N1 | 03-DEC-2010 03:13:45 | Tw_i_and_stray | 60.500 | 27  | 24Gam Ori | 1.6360   | 26000. | 121 | 45794 | No |
| 47 | GOM_TRA_1PNPDE20101203_031606_000000613097_00090_45794_3056.N1 | 03-DEC-2010 03:16:06 | Bright         | 61.000 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 122 | 45794 | No |
| 48 | GOM_TRA_1PNPDE20101203_031748_000000393097_00090_45794_3057.N1 | 03-DEC-2010 03:17:48 | Bright         | 39.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 78  | 45794 | No |
| 49 | GOM_TRA_1PNPDE20101203_032008_000000383097_00090_45794_3058.N1 | 03-DEC-2010 03:20:08 | Bright         | 38.000 | 150 | 44Zet Per | 2.8900   | 28000. | 76  | 45794 | No |
| 50 | GOM_TRA_1PNPDE20101203_032232_000000373097_00090_45794_3059.N1 | 03-DEC-2010 03:22:32 | Bright         | 36.500 | 149 | 45Eps Per | 2.8880   | 30000. | 73  | 45794 | No |
| 51 | GOM_TRA_1PNPDE20101203_032435_000000373097_00090_45794_3060.N1 | 03-DEC-2010 03:24:35 | Bright         | 36.500 | 175 | 39Del Per | 3.0100   | 19400. | 73  | 45794 | No |
| 52 | GOM_TRA_1PNPDE20101203_032610_000000473097_00090_45794_3061.N1 | 03-DEC-2010 03:26:10 | Bright         | 47.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 94  | 45794 | No |
| 53 | GOM_TRA_1PNPDE20101203_032750_000000503097_00090_45794_3062.N1 | 03-DEC-2010 03:27:50 | Bright         | 50.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 100 | 45794 | No |
| 54 | GOM_TRA_1PNPDE20101203_034228_000000473097_00090_45794_3095.N1 | 03-DEC-2010 03:42:28 | Bright         | 47.000 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 94  | 45794 | No |
| 55 | GOM_TRA_1PNPDE20101203_034403_000000493097_00090_45794_3096.N1 | 03-DEC-2010 03:44:03 | Bright         | 48.500 | 82  | 48Bet UMa | 2.3650   | 10600. | 97  | 45794 | No |
| 56 | GOM_TRA_1PNPDE20101203_034549_000000413097_00090_45794_3097.N1 | 03-DEC-2010 03:45:49 | Bright         | 41.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 82  | 45794 | No |
| 57 | GOM_TRA_1PNPDE20101203_035126_000000413097_00090_45794_3098.N1 | 03-DEC-2010 03:51:26 | Bright         | 41.000 | 152 | 12Alp2CVn | 2.8900   | 11000. | 82  | 45794 | No |
| 58 | GOM_TRA_1PNPDE20101203_040005_000000433097_00090_45794_3099.N1 | 03-DEC-2010 04:00:05 | Bright         | 43.000 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 86  | 45794 | No |
| 59 | GOM_TRA_1PNPDE20101203_040431_000000533097_00090_45794_3100.N1 | 03-DEC-2010 04:04:31 | Bright         | 52.500 | 121 | 29Gam Vir | 2.7400   | 7200.0 | 105 | 45794 | No |
| 60 | GOM_TRA_1PNPDE20101203_041016_000000463097_00090_45794_3101.N1 | 03-DEC-2010 04:10:16 | Dark           | 46.000 | 100 | 4Gam Crv  | 2.5800   | 13100. | 92  | 45794 | No |
| 61 | GOM_TRA_1PNPDE20101203_041152_000000523097_00090_45794_3102.N1 | 03-DEC-2010 04:11:52 | Dark           | 52.000 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 104 | 45794 | No |
| 62 | GOM_TRA_1PNPDE20101203_042117_000000433097_00091_45795_3103.N1 | 03-DEC-2010 04:21:17 | Dark           | 43.000 | 113 | Mu Vel    | 2.6920   | 5000.0 | 86  | 45795 | No |
| 63 | GOM_TRA_1PNPDE20101203_042954_000000523097_00091_45795_3104.N1 | 03-DEC-2010 04:29:54 | Dark           | 51.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 103 | 45795 | No |
| 64 | GOM_TRA_1PNPDE20101203_043305_000000583097_00091_45795_3105.N1 | 03-DEC-2010 04:33:05 | Dark           | 58.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 116 | 45795 | No |
| 65 | GOM_TRA_1PNPDE20101203_043505_000000633097_00091_45795_3106.N1 | 03-DEC-2010 04:35:05 | Dark           | 63.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 126 | 45795 | No |
| 66 | GOM_TRA_1PNPDE20101203_043847_000000343097_00091_45795_3107.N1 | 03-DEC-2010 04:38:47 | Dark           | 34.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 68  | 45795 | No |
| 67 | GOM_TRA_1PNPDE20101203_044500_000000533097_00091_45795_3108.N1 | 03-DEC-2010 04:45:00 | Straylight     | 53.000 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 106 | 45795 | No |
| 68 | GOM_TRA_1PNPDE20101203_044829_000000603097_00091_45795_3109.N1 | 03-DEC-2010 04:48:29 | Straylight     | 60.000 | 7   | 19Bet Ori | 0.10000  | 14000. | 120 | 45795 | No |
| 69 | GOM_TRA_1PNPDE20101203_045120_000000543097_00091_45795_3110.N1 | 03-DEC-2010 04:51:20 | Tw_i_and_stray | 54.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 108 | 45795 | No |



|     |  |                      |            |        |     |           |          |        |     |       |    |
|-----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 70  | GOM_TRA_1PNPDE20101203_045359_000000623097_00091_45795_3111.N1 | 03-DEC-2010 04:53:59 | Twilight   | 62.000 | 27  | 24Gam Ori | 1.6360   | 26000. | 124 | 45795 | No |
| 71  | GOM_TRA_1PNPDE20101203_045620_000000613097_00091_45795_3112.N1 | 03-DEC-2010 04:56:20 | Bright     | 61.000 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 122 | 45795 | No |
| 72  | GOM_TRA_1PNPDE20101203_045802_000000393097_00091_45795_3113.N1 | 03-DEC-2010 04:58:02 | Bright     | 39.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 78  | 45795 | No |
| 73  | GOM_TRA_1PNPDE20101203_050022_000000393097_00091_45795_3114.N1 | 03-DEC-2010 05:00:22 | Bright     | 38.500 | 150 | 44Zet Per | 2.8900   | 28000. | 77  | 45795 | No |
| 74  | GOM_TRA_1PNPDE20101203_050246_000000383097_00091_45795_3115.N1 | 03-DEC-2010 05:02:46 | Bright     | 37.500 | 149 | 45Eps Per | 2.8880   | 30000. | 75  | 45795 | No |
| 75  | GOM_TRA_1PNPDE20101203_050449_000000363097_00091_45795_3116.N1 | 03-DEC-2010 05:04:49 | Bright     | 35.500 | 175 | 39Del Per | 3.0100   | 19400. | 71  | 45795 | No |
| 76  | GOM_TRA_1PNPDE20101203_050624_000000513097_00091_45795_3117.N1 | 03-DEC-2010 05:06:24 | Bright     | 51.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 102 | 45795 | No |
| 77  | GOM_TRA_1PNPDE20101203_050804_000000503097_00091_45795_3118.N1 | 03-DEC-2010 05:08:04 | Bright     | 50.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 100 | 45795 | No |
| 78  | GOM_TRA_1PNPDE20101203_052242_000000463097_00091_45795_3139.N1 | 03-DEC-2010 05:22:42 | Bright     | 45.500 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 91  | 45795 | No |
| 79  | GOM_TRA_1PNPDE20101203_052417_000000493097_00091_45795_3140.N1 | 03-DEC-2010 05:24:17 | Bright     | 48.500 | 82  | 48Bet UMa | 2.3650   | 10600. | 97  | 45795 | No |
| 80  | GOM_TRA_1PNPDE20101203_052603_000000383097_00091_45795_3141.N1 | 03-DEC-2010 05:26:03 | Bright     | 38.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 76  | 45795 | No |
| 81  | GOM_TRA_1PNPDE20101203_053140_000000403097_00091_45795_3142.N1 | 03-DEC-2010 05:31:40 | Bright     | 39.500 | 152 | 12Alp2CVn | 2.8900   | 11000. | 79  | 45795 | No |
| 82  | GOM_TRA_1PNPDE20101203_054020_000000403097_00091_45795_3143.N1 | 03-DEC-2010 05:40:20 | Bright     | 39.500 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 79  | 45795 | No |
| 83  | GOM_TRA_1PNPDE20101203_054446_000000473097_00091_45795_3144.N1 | 03-DEC-2010 05:44:46 | Bright     | 47.000 | 121 | 29Gam Vir | 2.7400   | 7200.0 | 94  | 45795 | No |
| 84  | GOM_TRA_1PNPDE20101203_055031_000000493097_00091_45795_3145.N1 | 03-DEC-2010 05:50:31 | Dark       | 49.000 | 100 | 4Gam Crv  | 2.5800   | 13100. | 98  | 45795 | No |
| 85  | GOM_TRA_1PNPDE20101203_055207_000000513097_00091_45795_3146.N1 | 03-DEC-2010 05:52:07 | Dark       | 51.000 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 102 | 45795 | No |
| 86  | GOM_TRA_1PNPDE20101203_060132_000000443097_00092_45796_3147.N1 | 03-DEC-2010 06:01:32 | Dark       | 43.500 | 113 | Mu Vel    | 2.6920   | 5000.0 | 87  | 45796 | No |
| 87  | GOM_TRA_1PNPDE20101203_061009_000000513097_00092_45796_3148.N1 | 03-DEC-2010 06:10:09 | Dark       | 50.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 101 | 45796 | No |
| 88  | GOM_TRA_1PNPDE20101203_061320_000000473097_00092_45796_3149.N1 | 03-DEC-2010 06:13:20 | Dark       | 47.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 94  | 45796 | No |
| 89  | GOM_TRA_1PNPDE20101203_061520_000000613097_00092_45796_3150.N1 | 03-DEC-2010 06:15:20 | Dark       | 61.000 | 117 | Pi Pup    | 2.7060   | 3800.0 | 122 | 45796 | No |
| 90  | GOM_TRA_1PNPDE20101203_061902_000000383097_00092_45796_3151.N1 | 03-DEC-2010 06:19:02 | Dark       | 38.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 76  | 45796 | No |
| 91  | GOM_TRA_1PNPDE20101203_062514_000000513097_00092_45796_3152.N1 | 03-DEC-2010 06:25:14 | Straylight | 51.000 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 102 | 45796 | No |
| 92  | GOM_TRA_1PNPDE20101203_062844_000000573097_00092_45796_3153.N1 | 03-DEC-2010 06:28:44 | Straylight | 57.000 | 7   | 19Bet Ori | 0.10000  | 14000. | 114 | 45796 | No |
| 93  | GOM_TRA_1PNPDE20101203_063134_000000603097_00092_45796_3154.N1 | 03-DEC-2010 06:31:34 | Twilight   | 60.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 120 | 45796 | No |
| 94  | GOM_TRA_1PNPDE20101203_063412_000000583097_00092_45796_3155.N1 | 03-DEC-2010 06:34:12 | Twilight   | 57.500 | 27  | 24Gam Ori | 1.6360   | 26000. | 115 | 45796 | No |
| 95  | GOM_TRA_1PNPDE20101203_063634_000000543097_00092_45796_3156.N1 | 03-DEC-2010 06:36:34 | Bright     | 53.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 107 | 45796 | No |
| 96  | GOM_TRA_1PNPDE20101203_063816_000000393097_00092_45796_3157.N1 | 03-DEC-2010 06:38:16 | Bright     | 38.500 | 146 | 25Eta Tau | 2.8730   | 15200. | 77  | 45796 | No |
| 97  | GOM_TRA_1PNPDE20101203_064036_000000383097_00092_45796_3158.N1 | 03-DEC-2010 06:40:36 | Bright     | 38.000 | 150 | 44Zet Per | 2.8900   | 28000. | 76  | 45796 | No |
| 98  | GOM_TRA_1PNPDE20101203_064300_000000383097_00092_45796_3159.N1 | 03-DEC-2010 06:43:00 | Bright     | 37.500 | 149 | 45Eps Per | 2.8880   | 30000. | 75  | 45796 | No |
| 99  | GOM_TRA_1PNPDE20101203_064503_000000373097_00092_45796_3160.N1 | 03-DEC-2010 06:45:03 | Bright     | 36.500 | 175 | 39Del Per | 3.0100   | 19400. | 73  | 45796 | No |
| 100 | GOM_TRA_1PNPDE20101203_064637_000000473097_00092_45796_3161.N1 | 03-DEC-2010 06:46:37 | Bright     | 47.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 94  | 45796 | No |
| 101 | GOM_TRA_1PNPDE20101203_064817_000000513097_00092_45796_3162.N1 | 03-DEC-2010 06:48:17 | Bright     | 50.500 | 42  | 34Bet Aur | 1.9000   | 10200. | 101 | 45796 | No |
| 102 | GOM_TRA_1PNPDE20101203_194059_000000513097_00100_45804_3258.N1 | 03-DEC-2010 19:40:59 | Dark       | 51.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 102 | 45804 | No |
| 103 | GOM_TRA_1PNPDE20101203_194707_000000533097_00100_45804_3259.N1 | 03-DEC-2010 19:47:07 | Straylight | 53.000 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 106 | 45804 | No |
| 104 | GOM_TRA_1PNPDE20101203_195035_000000593097_00100_45804_3260.N1 | 03-DEC-2010 19:50:35 | Straylight | 58.500 | 7   | 19Bet Ori | 0.10000  | 14000. | 117 | 45804 | No |
| 105 | GOM_TRA_1PNPDE20101203_195324_000000603097_00100_45804_3261.N1 | 03-DEC-2010 19:53:24 | Twilight   | 59.500 | 30  | 46Eps Ori | 1.6940   | 30000. | 119 | 45804 | No |
| 106 | GOM_TRA_1PNPDE20101203_195601_000000603097_00100_45804_3262.N1 | 03-DEC-2010 19:56:01 | Twilight   | 60.000 | 27  | 24Gam Ori | 1.6360   | 26000. | 120 | 45804 | No |
| 107 | GOM_TRA_1PNPDE20101203_195824_000000593097_00100_45804_3263.N1 | 03-DEC-2010 19:58:24 | Bright     | 59.000 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 118 | 45804 | No |
| 108 | GOM_TRA_1PNPDE20101203_200008_000000383097_00100_45804_3264.N1 | 03-DEC-2010 20:00:08 | Bright     | 37.500 | 146 | 25Eta Tau | 2.8730   | 15200. | 75  | 45804 | No |
| 109 | GOM_TRA_1PNPDE20101203_200227_000000393097_00100_45804_3265.N1 | 03-DEC-2010 20:02:27 | Bright     | 38.500 | 150 | 44Zet Per | 2.8900   | 28000. | 77  | 45804 | No |
| 110 | GOM_TRA_1PNPDE20101203_200450_000000373097_00100_45804_3266.N1 | 03-DEC-2010 20:04:50 | Bright     | 37.000 | 149 | 45Eps Per | 2.8880   | 30000. | 74  | 45804 | No |
| 111 | GOM_TRA_1PNPDE20101203_200654_000000363097_00100_45804_3267.N1 | 03-DEC-2010 20:06:54 | Bright     | 36.000 | 175 | 39Del Per | 3.0100   | 19400. | 72  | 45804 | No |
| 112 | GOM_TRA_1PNPDE20101203_200825_000000513097_00100_45804_3268.N1 | 03-DEC-2010 20:08:25 | Bright     | 51.000 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 102 | 45804 | No |
| 113 | GOM_TRA_1PNPDE20101203_201002_000000513097_00100_45804_3269.N1 | 03-DEC-2010 20:10:02 | Bright     | 50.500 | 42  | 34Bet Aur | 1.9000   | 10200. | 101 | 45804 | No |
| 114 | GOM_TRA_1PNPDE20101203_202445_000000463097_00100_45804_3270.N1 | 03-DEC-2010 20:24:45 | Bright     | 46.000 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 92  | 45804 | No |
| 115 | GOM_TRA_1PNPDE20101203_202619_000000473097_00100_45804_3271.N1 | 03-DEC-2010 20:26:19 | Bright     | 47.000 | 82  | 48Bet UMa | 2.3650   | 10600. | 94  | 45804 | No |
| 116 | GOM_TRA_1PNPDE20101203_202809_000000393097_00100_45804_3272.N1 | 03-DEC-2010 20:28:09 | Bright     | 39.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 78  | 45804 | No |
| 117 | GOM_TRA_1PNPDE20101203_203346_000000403097_00100_45804_3273.N1 | 03-DEC-2010 20:33:46 | Bright     | 39.500 | 152 | 12Alp2CVn | 2.8900   | 11000. | 79  | 45804 | No |
| 118 | GOM_TRA_1PNPDE20101203_204230_000000423097_00100_45804_3274.N1 | 03-DEC-2010 20:42:30 | Bright     | 41.500 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 83  | 45804 | No |
| 119 | GOM_TRA_1PNPDE20101203_204658_000000463097_00100_45804_3296.N1 | 03-DEC-2010 20:46:58 | Bright     | 46.000 | 121 | 29Gam Vir | 2.7400   | 7200.0 | 92  | 45804 | No |
| 120 | GOM_TRA_1PNPDE20101203_205245_000000493097_00100_45804_3297.N1 | 03-DEC-2010 20:52:45 | Dark       | 48.500 | 100 | 4Gam Crv  | 2.5800   | 13100. | 97  | 45804 | No |
| 121 | GOM_TRA_1PNPDE20101203_205421_000000503097_00100_45804_3298.N1 | 03-DEC-2010 20:54:21 | Dark       | 50.000 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 100 | 45804 | No |
| 122 | GOM_TRA_1PNPDE20101203_210346_000000473097_00101_45805_3299.N1 | 03-DEC-2010 21:03:46 | Dark       | 46.500 | 113 | Mu Vel    | 2.6920   | 5000.0 | 93  | 45805 | No |
| 123 | GOM_TRA_1PNPDE20101203_211223_000000483097_00101_45805_3300.N1 | 03-DEC-2010 21:12:23 | Dark       | 47.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 95  | 45805 | No |
| 124 | GOM_TRA_1PNPDE20101203_211531_000000583097_00101_45805_3301.N1 | 03-DEC-2010 21:15:31 | Dark       | 58.000 | 2   | Alp Car   | -0.73600 | 7000.0 | 116 | 45805 | No |
| 125 | GOM_TRA_1PNPDE20101203_212114_000000513097_00101_45805_3302.N1 | 03-DEC-2010 21:21:14 | Dark       | 51.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 102 | 45805 | No |
| 126 | GOM_TRA_1PNPDE20101203_212721_000000533097_00101_45805_3303.N1 | 03-DEC-2010 21:27:21 | Straylight | 52.500 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 105 | 45805 | No |
| 127 | GOM_TRA_1PNPDE20101203_213049_000000563097_00101_45805_3304.N1 | 03-DEC-2010 21:30:49 | Straylight | 56.000 | 7   | 19Bet Ori | 0.10000  | 14000. | 112 | 45805 | No |
| 128 | GOM_TRA_1PNPDE20101203_213337_000000613097_00101_45805_3305.N1 | 03-DEC-2010 21:33:37 | Twilight   | 61.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 122 | 45805 | No |

|     |  |                      |            |        |     |           |          |        |     |       |    |
|-----|--|----------------------|------------|--------|-----|-----------|----------|--------|-----|-------|----|
| 129 | GOM_TRA_1PNPDE20101203_213615_000000603097_00101_45805_3306.N1 | 03-DEC-2010 21:36:15 | Twilight   | 60.000 | 27  | 24Gam Ori | 1.6360   | 26000. | 120 | 45805 | No |
| 130 | GOM_TRA_1PNPDE20101203_213838_000000593097_00101_45805_3307.N1 | 03-DEC-2010 21:38:38 | Bright     | 58.500 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 117 | 45805 | No |
| 131 | GOM_TRA_1PNPDE20101203_214022_000000383097_00101_45805_3308.N1 | 03-DEC-2010 21:40:22 | Bright     | 38.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 76  | 45805 | No |
| 132 | GOM_TRA_1PNPDE20101203_214240_000000393097_00101_45805_3309.N1 | 03-DEC-2010 21:42:40 | Bright     | 38.500 | 150 | 44Zet Per | 2.8900   | 28000. | 77  | 45805 | No |
| 133 | GOM_TRA_1PNPDE20101203_214504_000000373097_00101_45805_3310.N1 | 03-DEC-2010 21:45:04 | Bright     | 37.000 | 149 | 45Eps Per | 2.8880   | 30000. | 74  | 45805 | No |
| 134 | GOM_TRA_1PNPDE20101203_214707_000000373097_00101_45805_3311.N1 | 03-DEC-2010 21:47:07 | Bright     | 36.500 | 175 | 39Del Per | 3.0100   | 19400. | 73  | 45805 | No |
| 135 | GOM_TRA_1PNPDE20101203_214838_000000493097_00101_45805_3312.N1 | 03-DEC-2010 21:48:38 | Bright     | 48.500 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 97  | 45805 | No |
| 136 | GOM_TRA_1PNPDE20101203_215015_000000503097_00101_45805_3313.N1 | 03-DEC-2010 21:50:15 | Bright     | 50.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 100 | 45805 | No |
| 137 | GOM_TRA_1PNPDE20101203_220458_000000423097_00101_45805_3314.N1 | 03-DEC-2010 22:04:58 | Bright     | 41.500 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 83  | 45805 | No |
| 138 | GOM_TRA_1PNPDE20101203_220633_000000453097_00101_45805_3315.N1 | 03-DEC-2010 22:06:33 | Bright     | 45.000 | 82  | 48Bet UMa | 2.3650   | 10600. | 90  | 45805 | No |
| 139 | GOM_TRA_1PNPDE20101203_220822_000000413097_00101_45805_3316.N1 | 03-DEC-2010 22:08:22 | Bright     | 40.500 | 32  | 77Eps UMa | 1.7630   | 11000. | 81  | 45805 | No |
| 140 | GOM_TRA_1PNPDE20101203_221400_000000413097_00101_45805_3317.N1 | 03-DEC-2010 22:14:00 | Bright     | 40.500 | 152 | 12Alp2CVn | 2.8900   | 11000. | 81  | 45805 | No |
| 141 | GOM_TRA_1PNPDE20101203_222244_000000433097_00101_45805_3318.N1 | 03-DEC-2010 22:22:44 | Bright     | 42.500 | 138 | 47Eps Vir | 2.8280   | 4700.0 | 85  | 45805 | No |
| 142 | GOM_TRA_1PNPDE20101203_222712_000000463097_00101_45805_3319.N1 | 03-DEC-2010 22:27:12 | Bright     | 46.000 | 121 | 29Gam Vir | 2.7400   | 7200.0 | 92  | 45805 | No |
| 143 | GOM_TRA_1PNPDE20101203_223300_000000473097_00101_45805_3351.N1 | 03-DEC-2010 22:33:00 | Dark       | 47.000 | 100 | 4Gam Crv  | 2.5800   | 13100. | 94  | 45805 | No |
| 144 | GOM_TRA_1PNPDE20101203_223436_000000523097_00101_45805_3352.N1 | 03-DEC-2010 22:34:36 | Dark       | 51.500 | 171 | 2Eps Crv  | 3.0010   | 4250.0 | 103 | 45805 | No |
| 145 | GOM_TRA_1PNPDE20101203_224400_000000433097_00102_45806_3353.N1 | 03-DEC-2010 22:44:00 | Dark       | 43.000 | 113 | Mu Vel    | 2.6920   | 5000.0 | 86  | 45806 | No |
| 146 | GOM_TRA_1PNPDE20101203_225238_000000523097_00102_45806_3354.N1 | 03-DEC-2010 22:52:38 | Dark       | 51.500 | 34  | Gam2Vel   | 1.7930   | 23000. | 103 | 45806 | No |
| 147 | GOM_TRA_1PNPDE20101203_225545_000000463097_00102_45806_3355.N1 | 03-DEC-2010 22:55:45 | Dark       | 45.500 | 2   | Alp Car   | -0.73600 | 7000.0 | 91  | 45806 | No |
| 148 | GOM_TRA_1PNPDE20101203_230128_000000553097_00102_45806_3356.N1 | 03-DEC-2010 23:01:28 | Dark       | 55.000 | 23  | 21Eps CMa | 1.5020   | 26000. | 110 | 45806 | No |
| 149 | GOM_TRA_1PNPDE20101203_230735_000000533097_00102_45806_3357.N1 | 03-DEC-2010 23:07:35 | Straylight | 52.500 | 101 | 11Alp Lep | 2.5820   | 7000.0 | 105 | 45806 | No |
| 150 | GOM_TRA_1PNPDE20101203_231103_000000643097_00102_45806_3358.N1 | 03-DEC-2010 23:11:03 | Straylight | 64.000 | 7   | 19Bet Ori | 0.10000  | 14000. | 128 | 45806 | No |
| 151 | GOM_TRA_1PNPDE20101203_231351_000000603097_00102_45806_3359.N1 | 03-DEC-2010 23:13:51 | Twilight   | 60.000 | 30  | 46Eps Ori | 1.6940   | 30000. | 120 | 45806 | No |
| 152 | GOM_TRA_1PNPDE20101203_231628_000000613097_00102_45806_3360.N1 | 03-DEC-2010 23:16:28 | Twilight   | 60.500 | 27  | 24Gam Ori | 1.6360   | 26000. | 121 | 45806 | No |
| 153 | GOM_TRA_1PNPDE20101203_231851_000000613097_00102_45806_3361.N1 | 03-DEC-2010 23:18:51 | Bright     | 61.000 | 13  | 87Alp Tau | 0.86700  | 3800.0 | 122 | 45806 | No |
| 154 | GOM_TRA_1PNPDE20101203_232035_000000383097_00102_45806_3362.N1 | 03-DEC-2010 23:20:35 | Bright     | 38.000 | 146 | 25Eta Tau | 2.8730   | 15200. | 76  | 45806 | No |
| 155 | GOM_TRA_1PNPDE20101203_232254_000000383097_00102_45806_3363.N1 | 03-DEC-2010 23:22:54 | Bright     | 37.500 | 150 | 44Zet Per | 2.8900   | 28000. | 75  | 45806 | No |
| 156 | GOM_TRA_1PNPDE20101203_232518_000000563097_00102_45806_3364.N1 | 03-DEC-2010 23:25:18 | Bright     | 56.000 | 149 | 45Eps Per | 2.8880   | 30000. | 112 | 45806 | No |
| 157 | GOM_TRA_1PNPDE20101203_232852_000000513097_00102_45806_3365.N1 | 03-DEC-2010 23:28:52 | Bright     | 50.500 | 6   | 13Alp Aur | 0.080000 | 3400.0 | 101 | 45806 | No |
| 158 | GOM_TRA_1PNPDE20101203_233028_000000503097_00102_45806_3366.N1 | 03-DEC-2010 23:30:28 | Bright     | 50.000 | 42  | 34Bet Aur | 1.9000   | 10200. | 100 | 45806 | No |
| 159 | GOM_TRA_1PNPDE20101203_234512_000000423097_00102_45806_3367.N1 | 03-DEC-2010 23:45:12 | Bright     | 41.500 | 36  | 50Alp UMa | 1.8000   | 6300.0 | 83  | 45806 | No |
| 160 | GOM_TRA_1PNPDE20101203_234646_000000463097_00102_45806_3368.N1 | 03-DEC-2010 23:46:46 | Bright     | 46.000 | 82  | 48Bet UMa | 2.3650   | 10600. | 92  | 45806 | No |
| 161 | GOM_TRA_1PNPDE20101203_234836_000000413097_00102_45806_3369.N1 | 03-DEC-2010 23:48:36 | Bright     | 41.000 | 32  | 77Eps UMa | 1.7630   | 11000. | 82  | 45806 | No |
| 162 | GOM_TRA_1PNPDE20101203_235414_000000423097_00102_45806_3370.N1 | 03-DEC-2010 23:54:14 | Bright     | 41.500 | 152 | 12Alp2CVn | 2.8900   | 11000. | 83  | 45806 | 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.

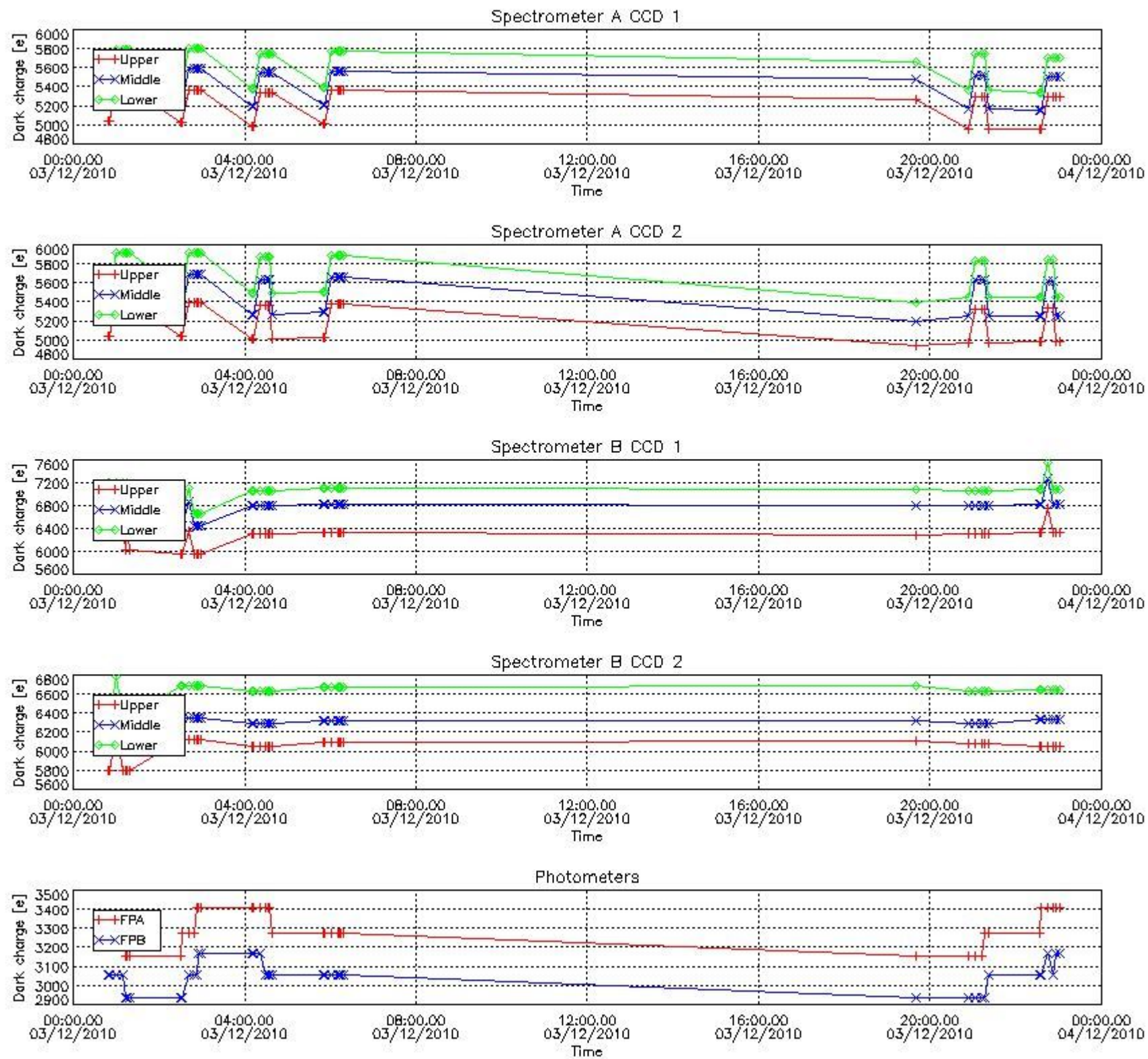
##### 4.1 These products did not use the DSA observation for DC computation:

| Product name   | DC information |
|--|----------------|
| GOM_TRA_1PNPDE20101203_194059_000000513097_00100_45804_3258.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_194707_000000533097_00100_45804_3259.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_195035_000000593097_00100_45804_3260.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_195324_000000603097_00100_45804_3261.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_195601_000000603097_00100_45804_3262.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_195824_000000593097_00100_45804_3263.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_200008_000000383097_00100_45804_3264.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_200227_000000393097_00100_45804_3265.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_200450_000000373097_00100_45804_3266.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_200654_000000363097_00100_45804_3267.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_200825_000000513097_00100_45804_3268.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_201002_000000513097_00100_45804_3269.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_202445_000000463097_00100_45804_3270.N1 | DC map used    |
| GOM_TRA_1PNPDE20101203_202619_000000473097_00100_45804_3271.N1 | DC map used    |



|  |             |
|--|-------------|
| GOM_TRA_1PNPDE20101203_202809_000000393097_00100_45804_3272.N1 | DC map used |
| GOM_TRA_1PNPDE20101203_203346_000000403097_00100_45804_3273.N1 | DC map used |
| GOM_TRA_1PNPDE20101203_204230_000000423097_00100_45804_3274.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

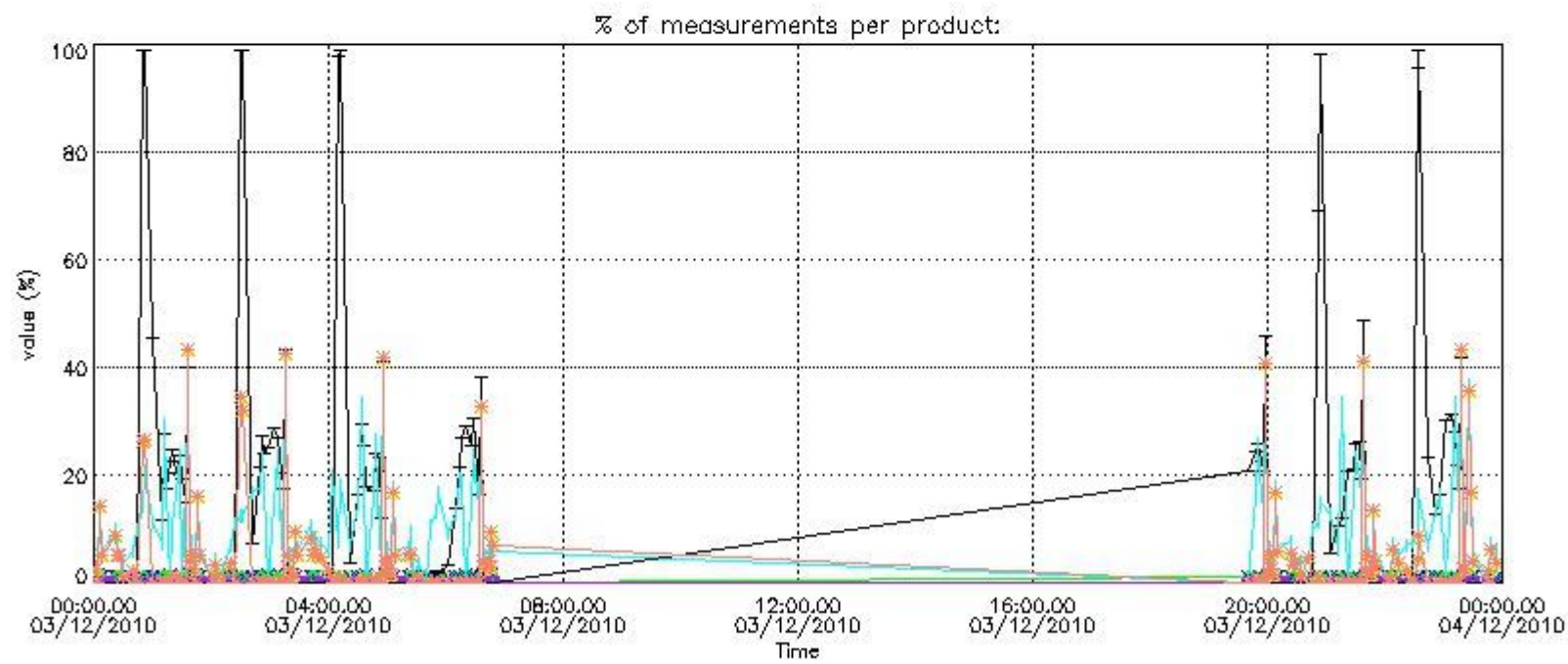
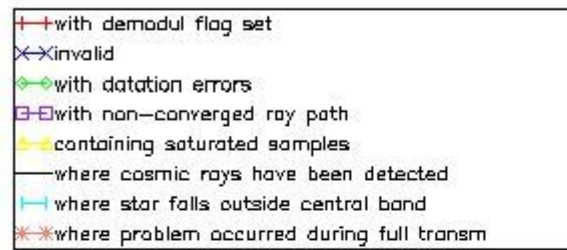
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors

(error flag in the MPH set to "0") are used.

5.1 Percentage of products during reporting period with:

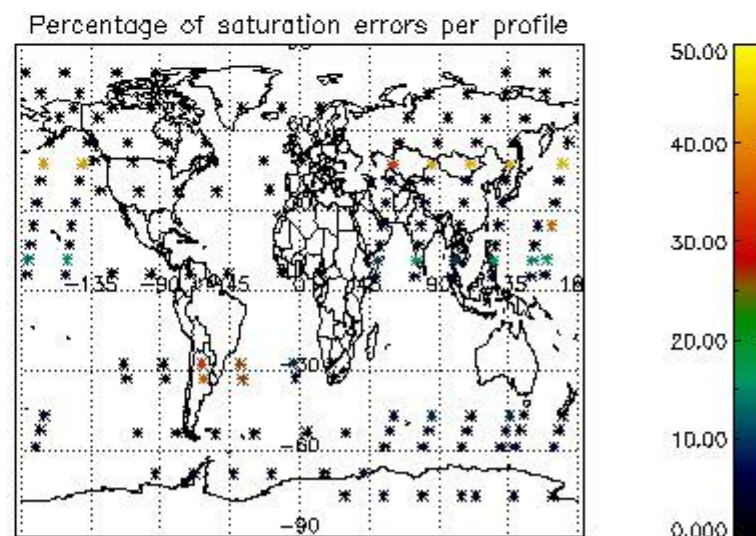
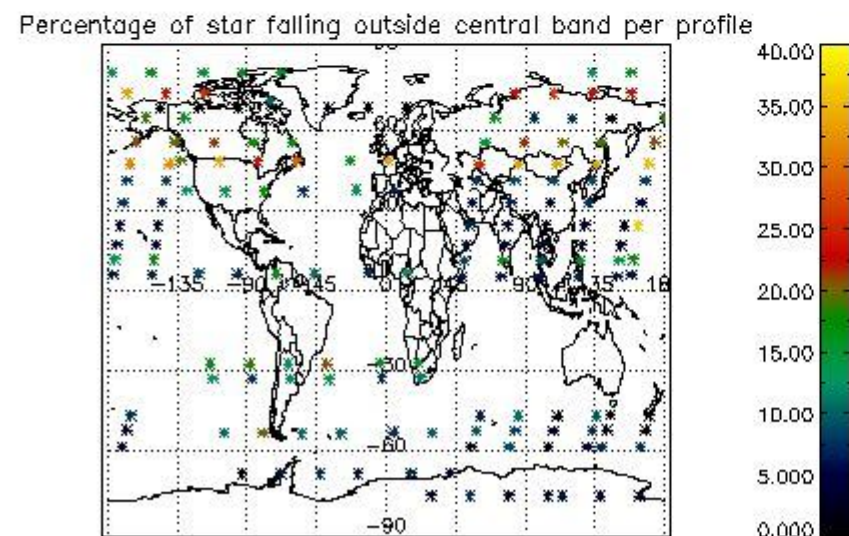
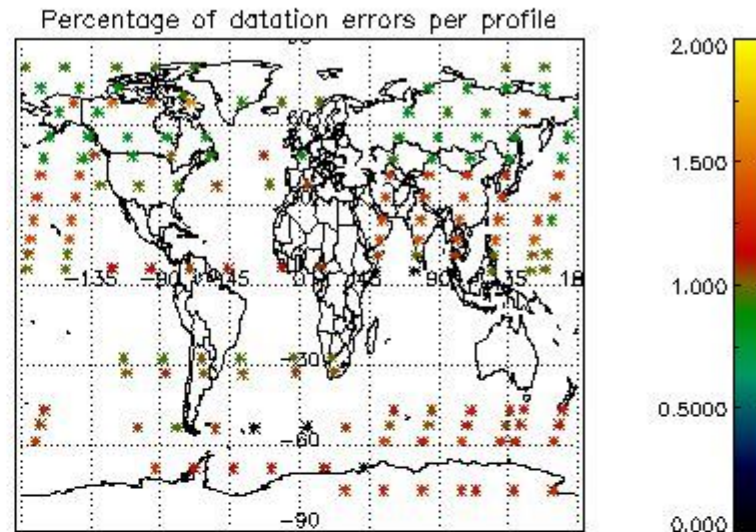
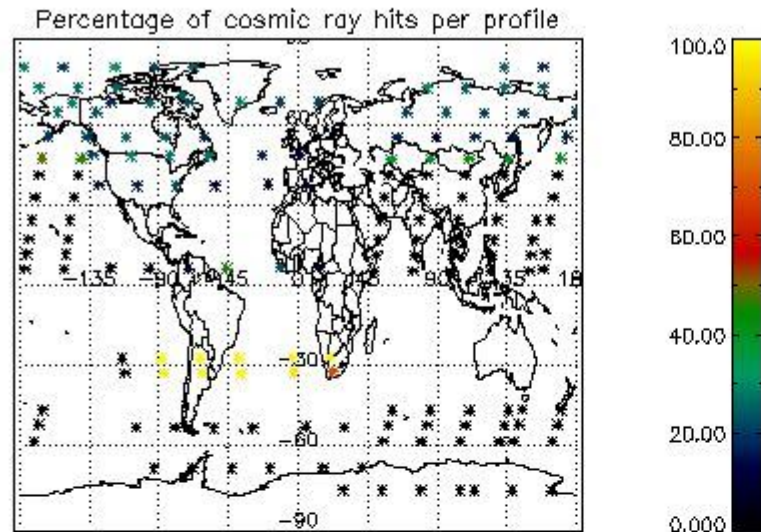
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 43.2099 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





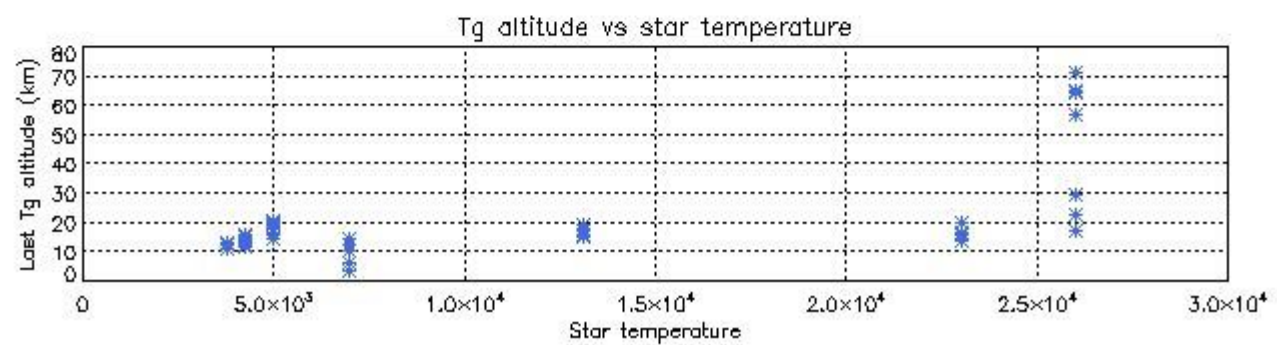
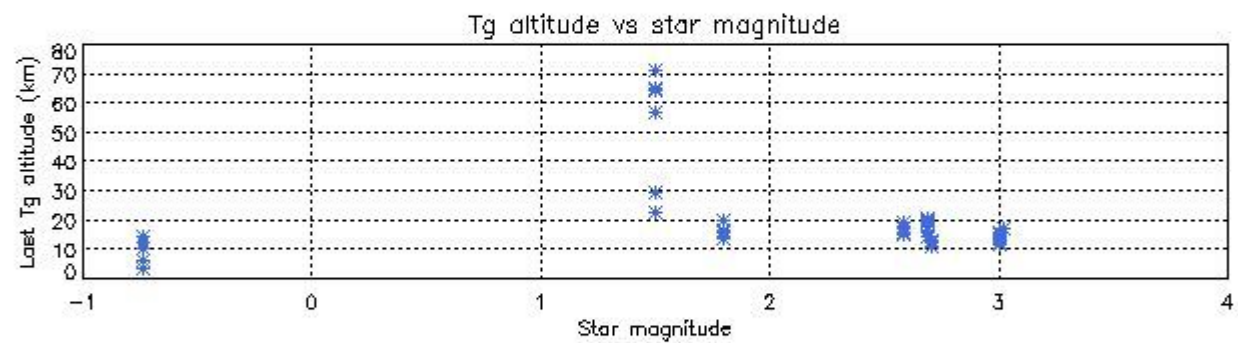
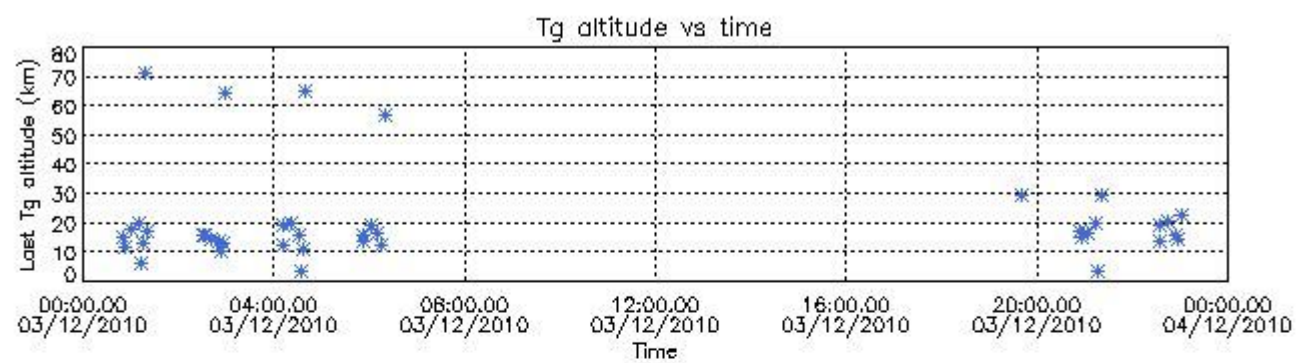
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 20.164 | 19.265 | NaN      |
| St. deviation:  | 15.441 | 5.3201 | NaN      |
| Maximum:        | 71.012 | 26.541 | NaN      |
| Minimum:        | 3.1619 | 3.4703 | NaN      |
| Number of data: | 42.000 | 92.000 | NaN      |

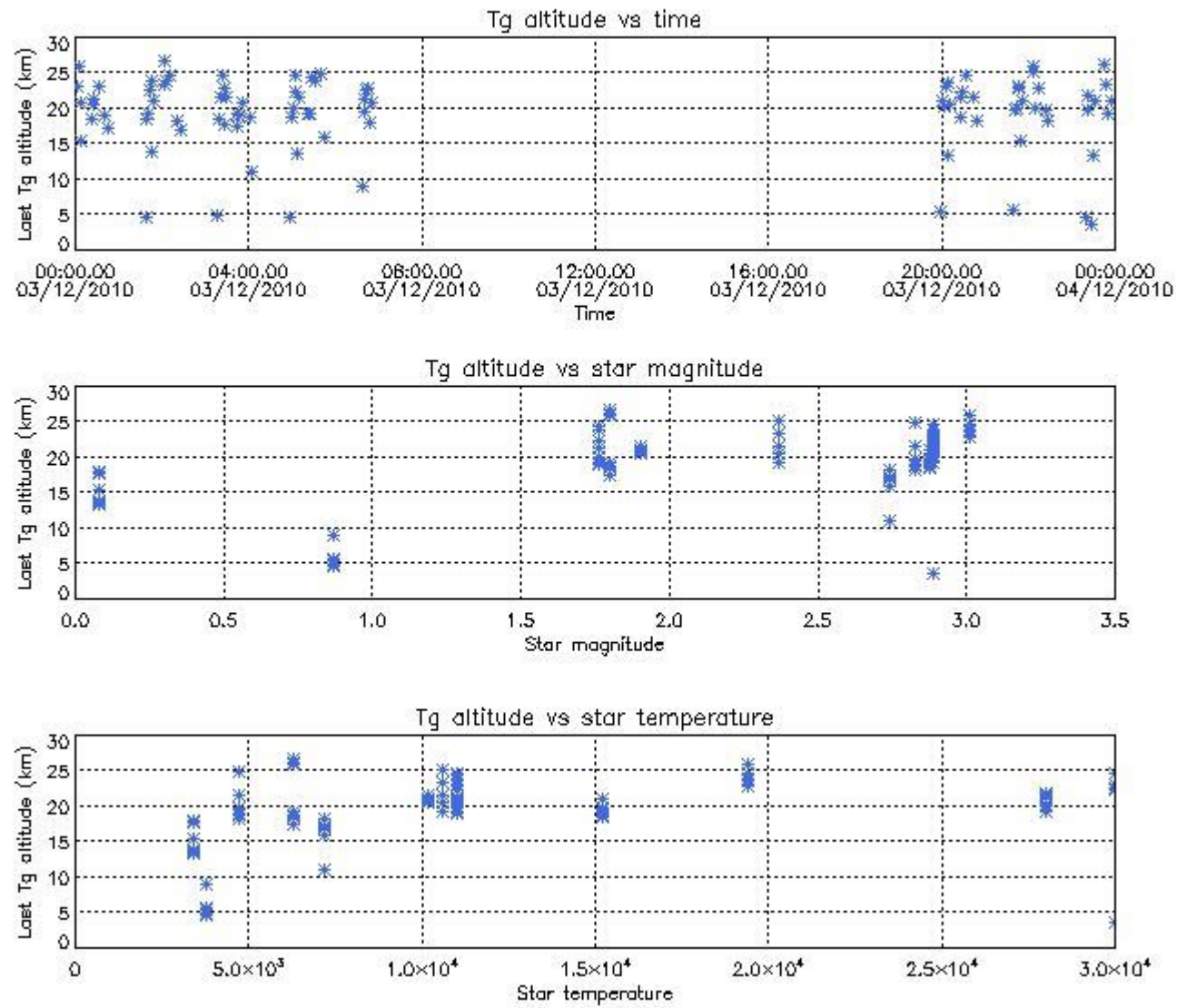
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



### 6.3 Plot for BRIGHT limb products

## Tangent altitude at which the star is lost



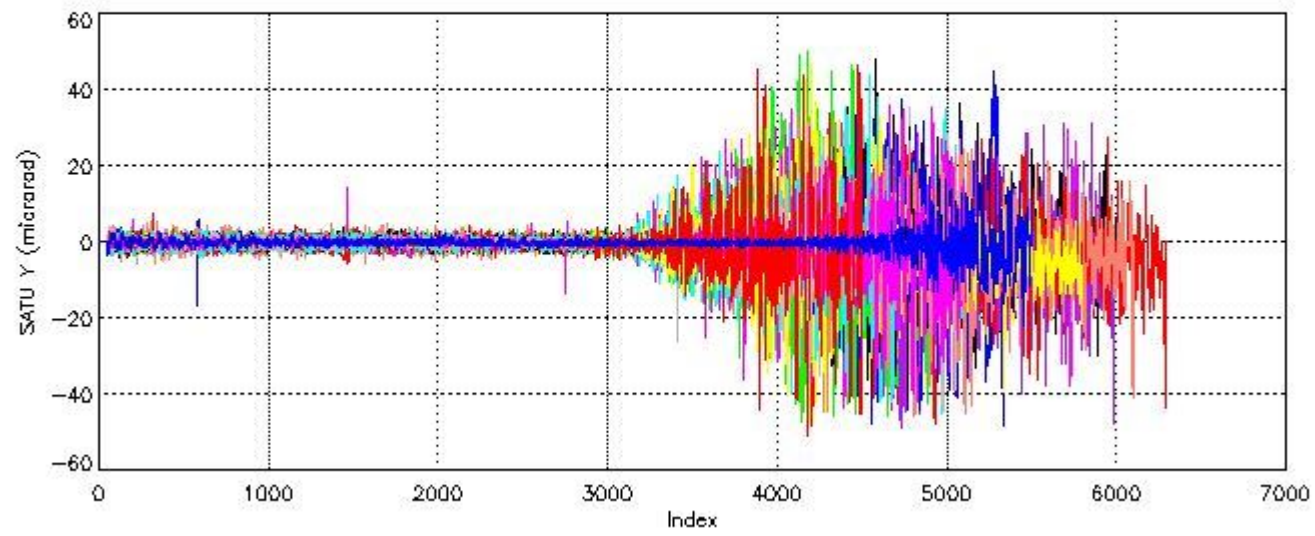
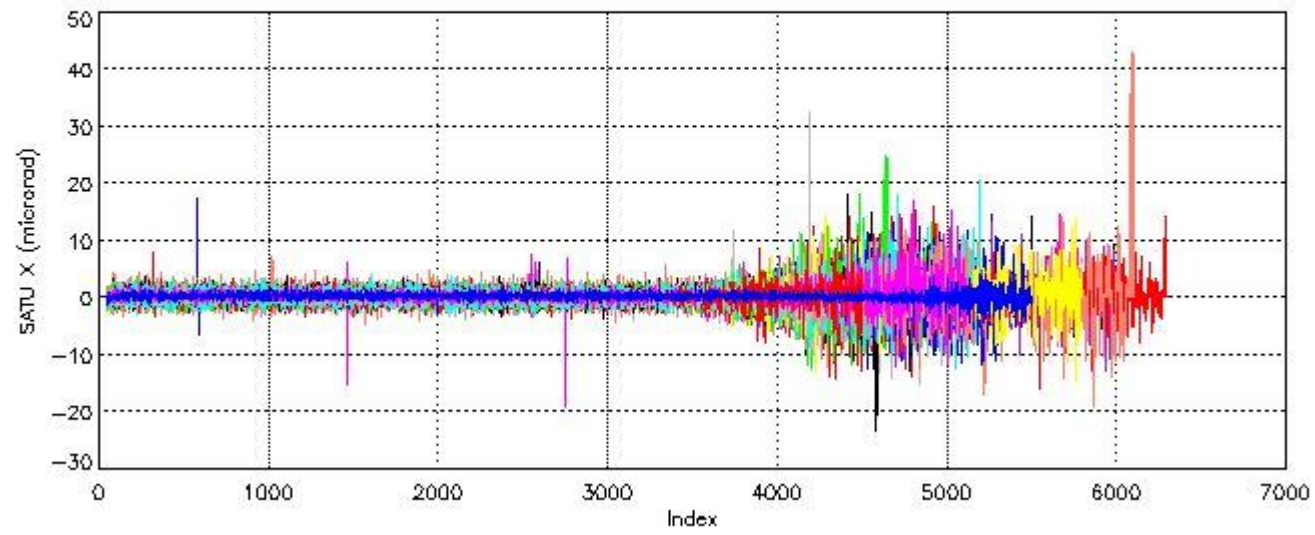
## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.26559    | -0.28888   | 0.18326    | -0.28147   |
| St. deviation: | 0.53605    | 0.81796    | 0.95210    | 1.1651     |
| Maximum:       | 17.300     | 7.3000     | 6.4000     | 6.6000     |
| Minimum:       | -6.6000    | -17.100    | -6.2000    | -7.5000    |

|                 |        |        |        |        |
|-----------------|--------|--------|--------|--------|
| Number of data: | 49050. | 49050. | 92050. | 92050. |
|-----------------|--------|--------|--------|--------|

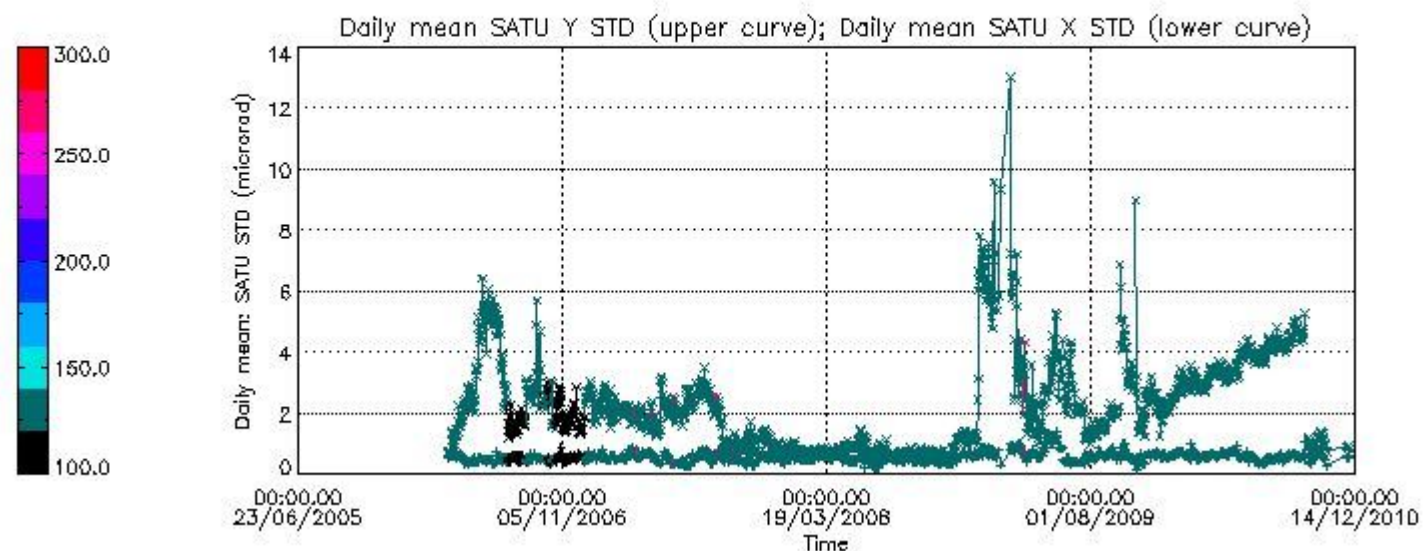
### 7.2.2 Trend of daily SATU NEA St. deviation since 1st April 2006 (dark limb)

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

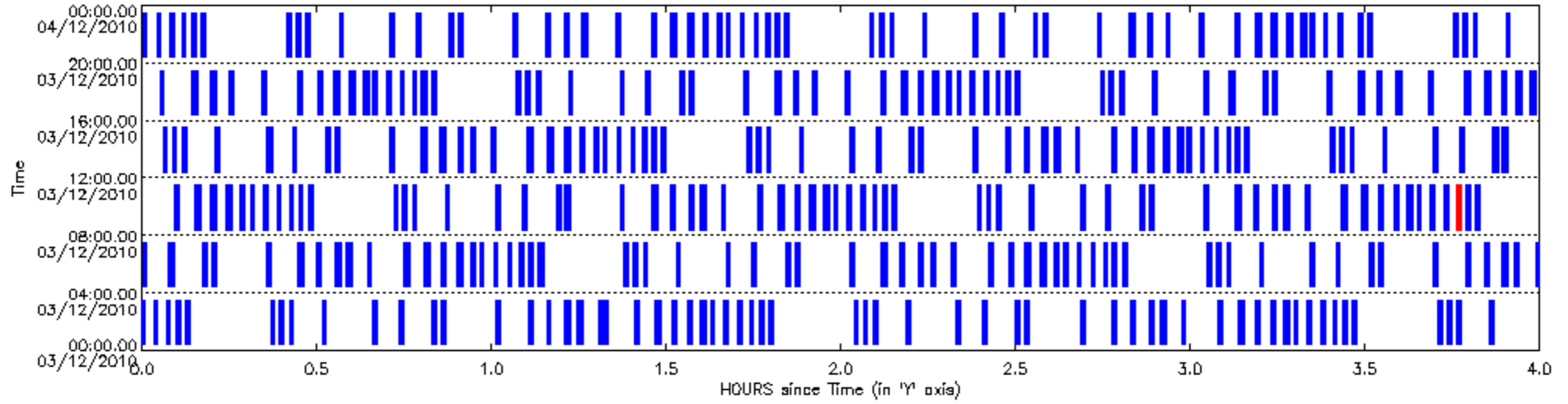
Lower curve: STD of SATU X axis



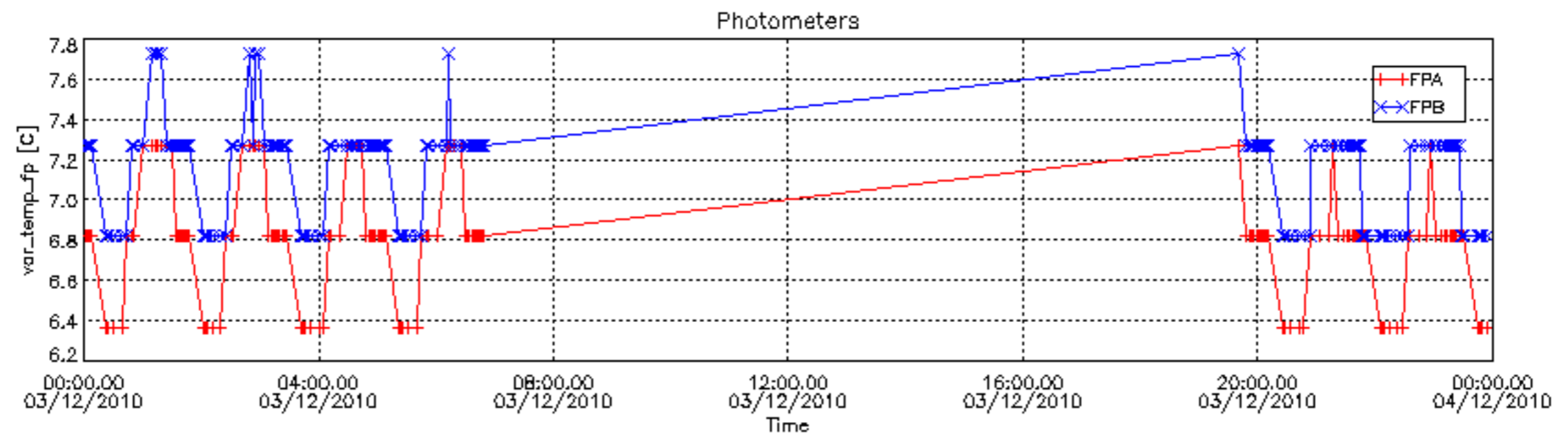
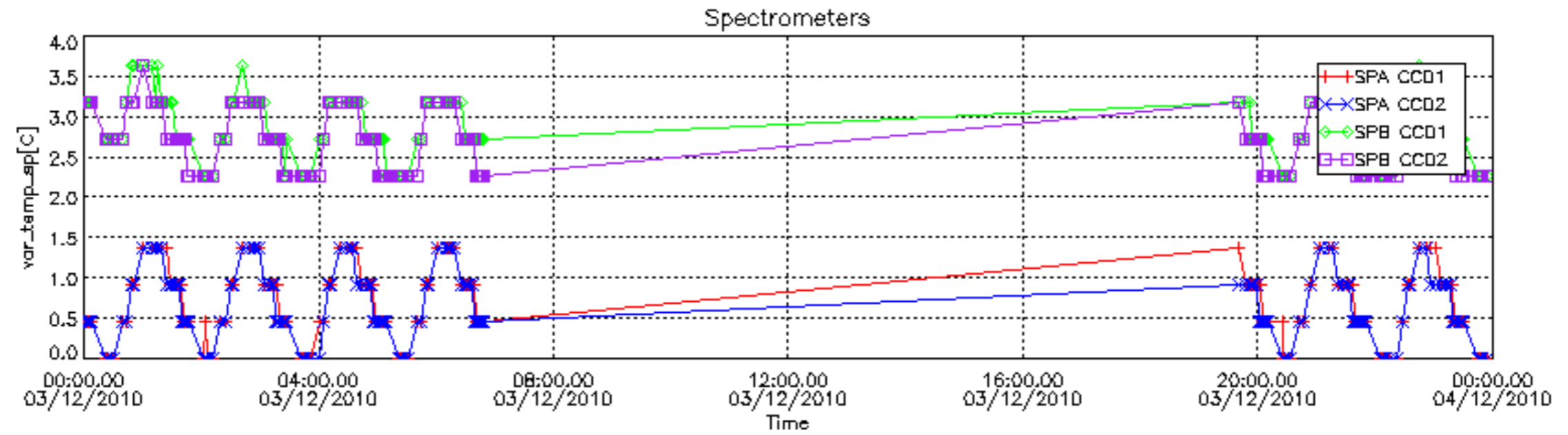
### 8. Auxiliary Data Files used for the production reported in section 2.4

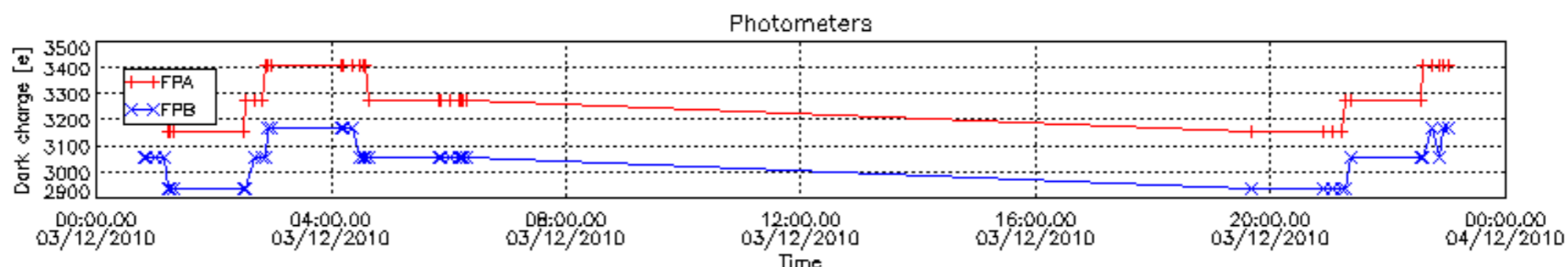
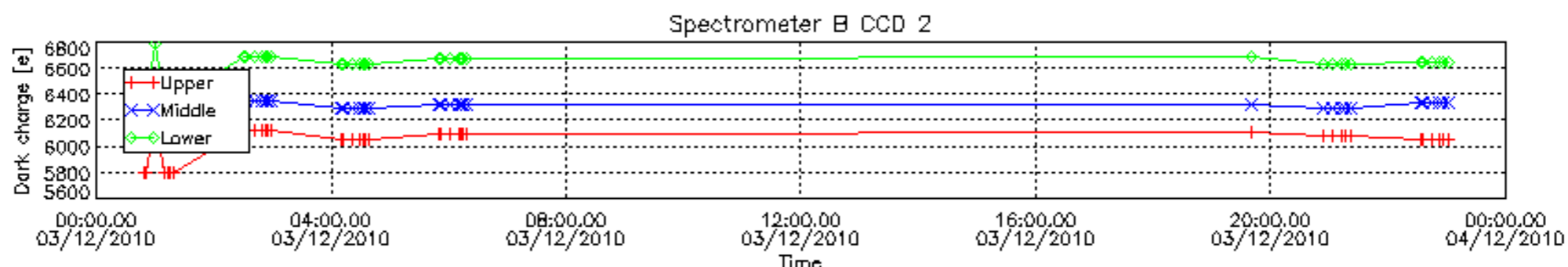
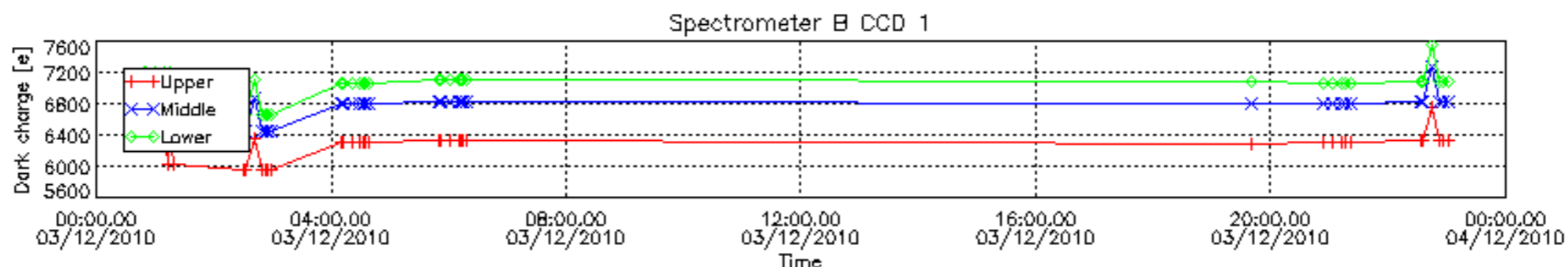
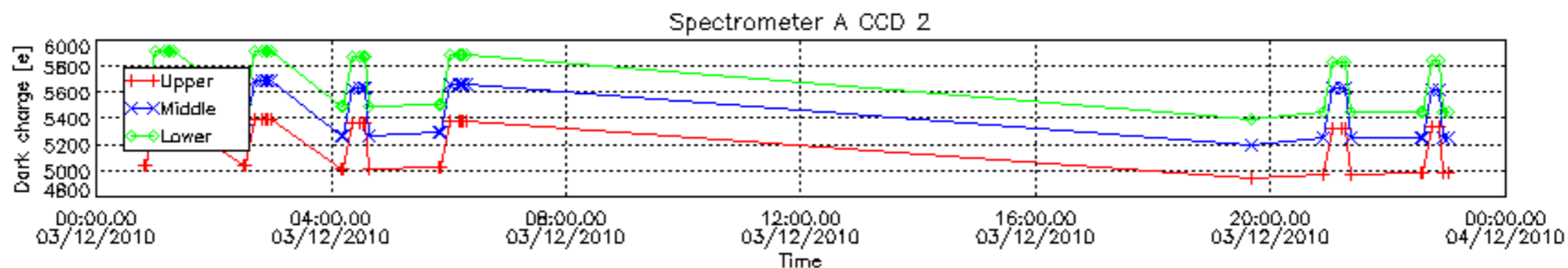
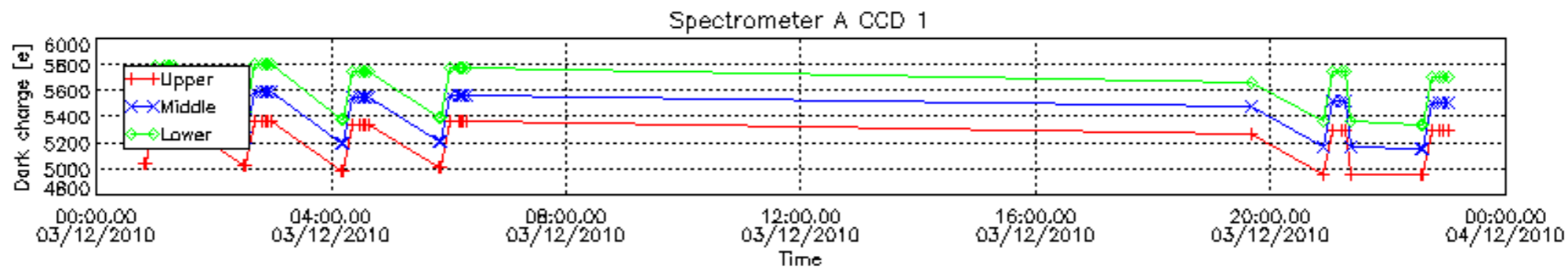
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

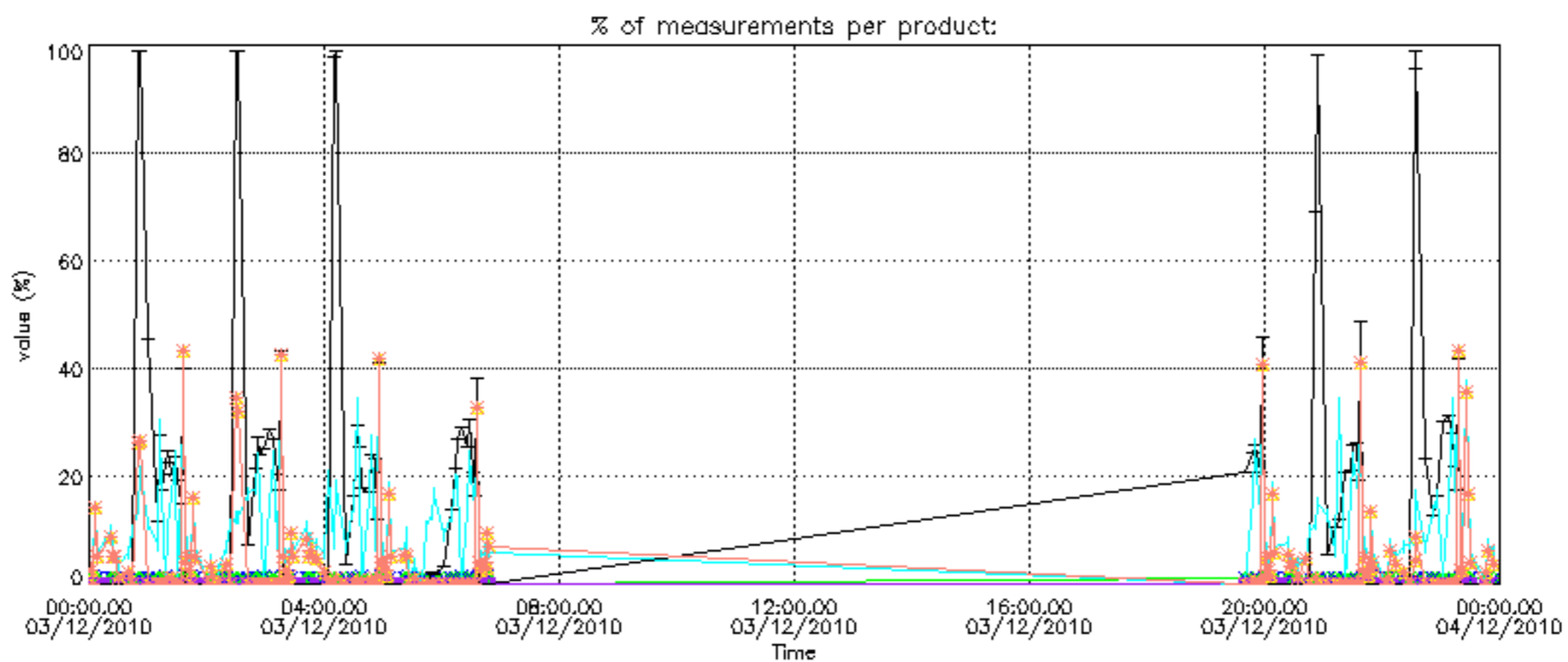
| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000  | 1                  | 03-DEC-2010 00:02:04    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20101201_093519_20101129_000000_20500101_000000  | 1                  | 03-DEC-2010 00:02:04    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000  | 1                  | 03-DEC-2010 00:02:04    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 03-DEC-2010 00:02:04    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000  | 1                  | 03-DEC-2010 00:02:04    |
| ECMWF_FILE                | AUX_ECF_AXNECM20101202_054115_20101202_210000_20101203_090000  | 1                  | 03-DEC-2010 00:02:04    |
| ECMWF_FILE                | AUX_ECF_AXNECM20101202_174116_20101203_030000_20101203_150000  | 54                 | 03-DEC-2010 03:42:28    |
| ECMWF_FILE                | AUX_ECA_AXNECM20101203_052114_20101202_210000_20101203_090000  | 78                 | 03-DEC-2010 05:22:42    |
| ECMWF_FILE                | AUX_ECA_AXNECM20101203_172116_20101203_090000_20101203_210000  | 102                | 03-DEC-2010 19:40:59    |
| ECMWF_FILE                | AUX_ECF_AXNECM20101203_054115_20101203_150000_20101204_030000  | 119                | 03-DEC-2010 20:46:58    |
| ECMWF_FILE                | AUX_ECF_AXNECM20101203_054116_20101203_210000_20101204_090000  | 143                | 03-DEC-2010 22:33:00    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 03-DEC-2010 00:02:04    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101202_230558_000057383097_00087_45791_2044.N1 | 1                  | 03-DEC-2010 00:02:04    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_004136_000057383097_00088_45792_2045.N1 | 11                 | 03-DEC-2010 00:49:46    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_022233_000041443097_00089_45793_2046.N1 | 35                 | 03-DEC-2010 02:24:16    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_033656_000057383097_00090_45794_2047.N1 | 54                 | 03-DEC-2010 03:42:28    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_051753_000057383097_00091_45795_2048.N1 | 78                 | 03-DEC-2010 05:22:42    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_193318_000038253097_00100_45804_2049.N1 | 102                | 03-DEC-2010 19:40:59    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_204222_000060573097_00100_45804_2050.N1 | 119                | 03-DEC-2010 20:46:58    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20101203_222838_000057383097_00101_45805_2051.N1 | 143                | 03-DEC-2010 22:33:00    |





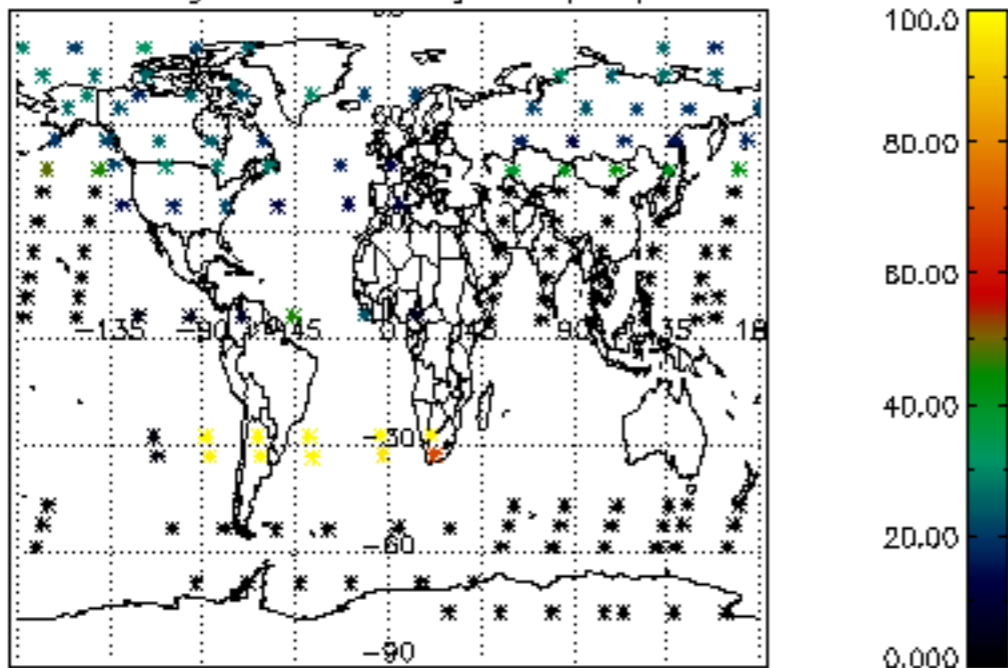




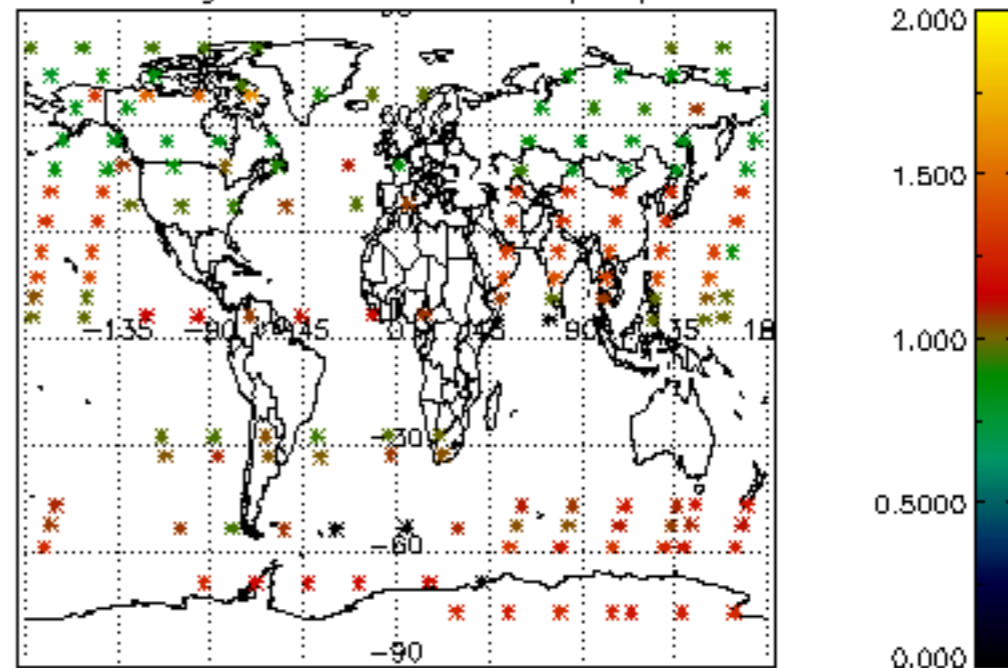




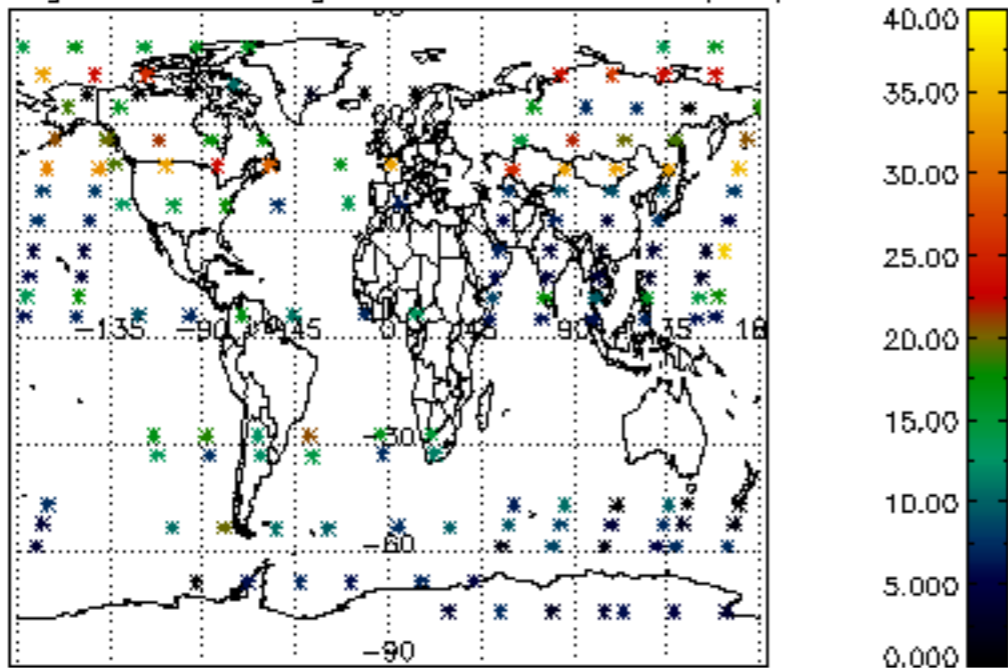
Percentage of cosmic ray hits per profile



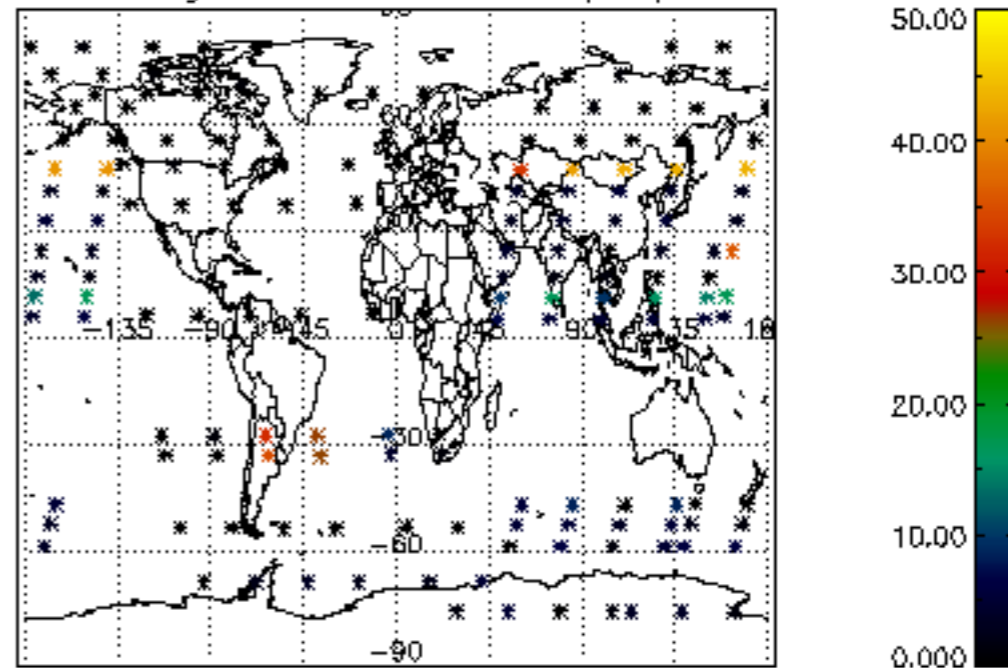
Percentage of datation errors per profile



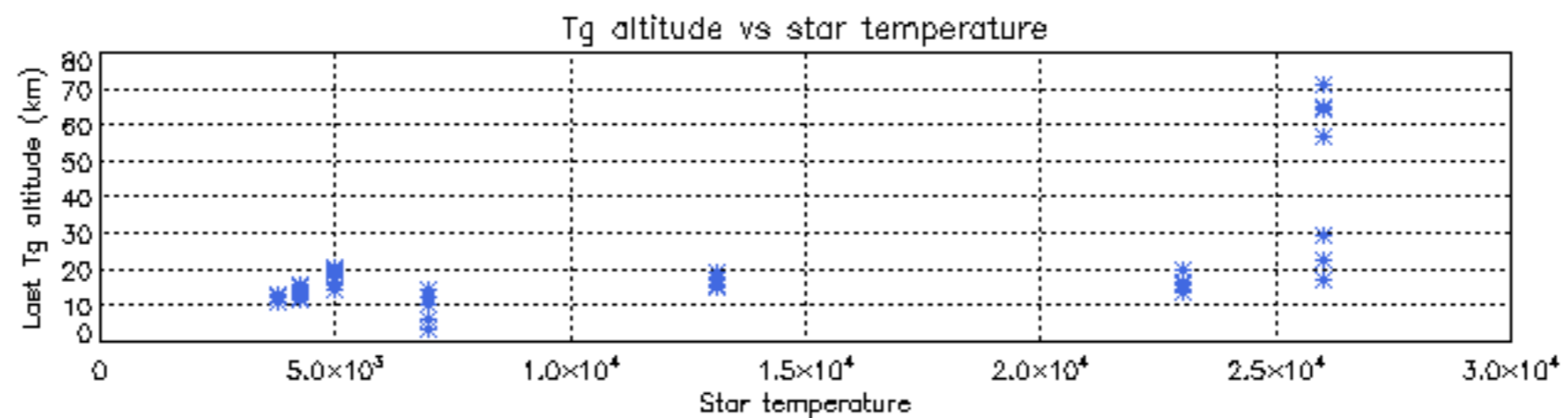
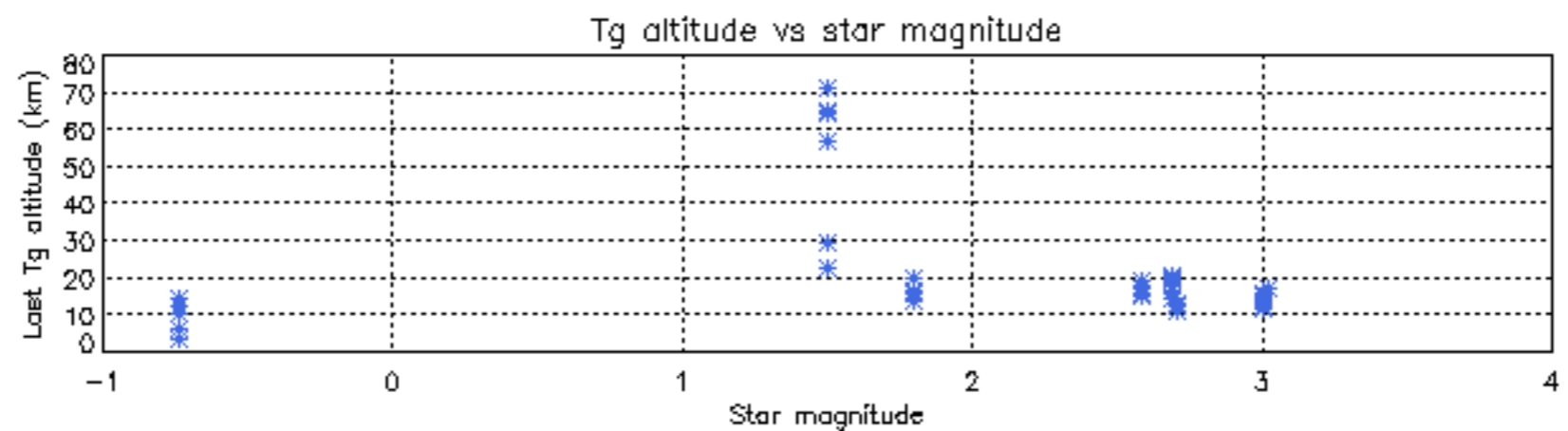
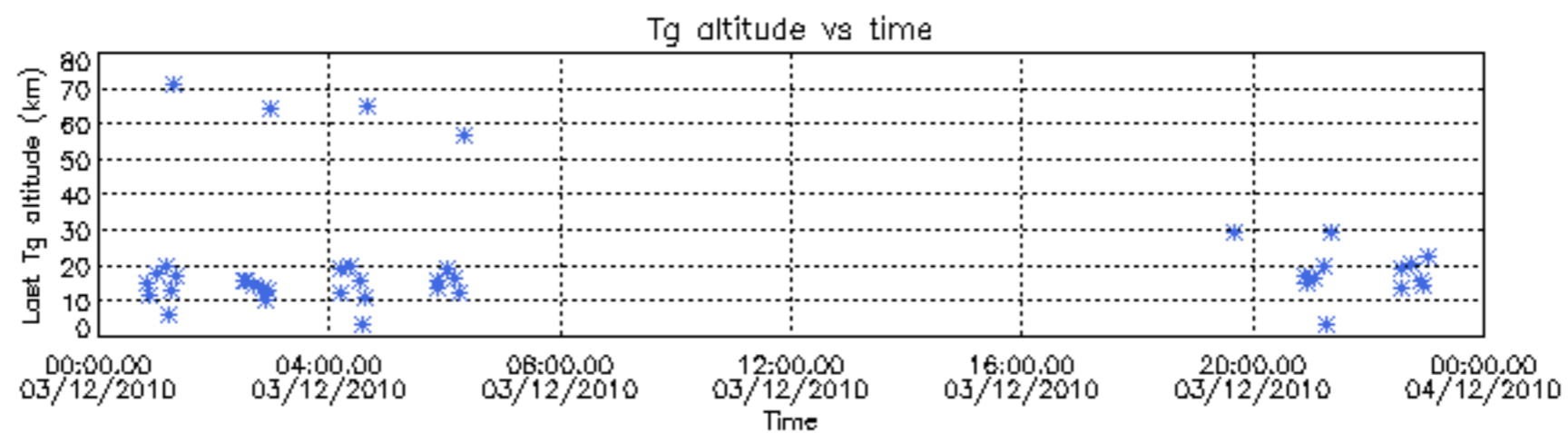
Percentage of star falling outside central band per profile



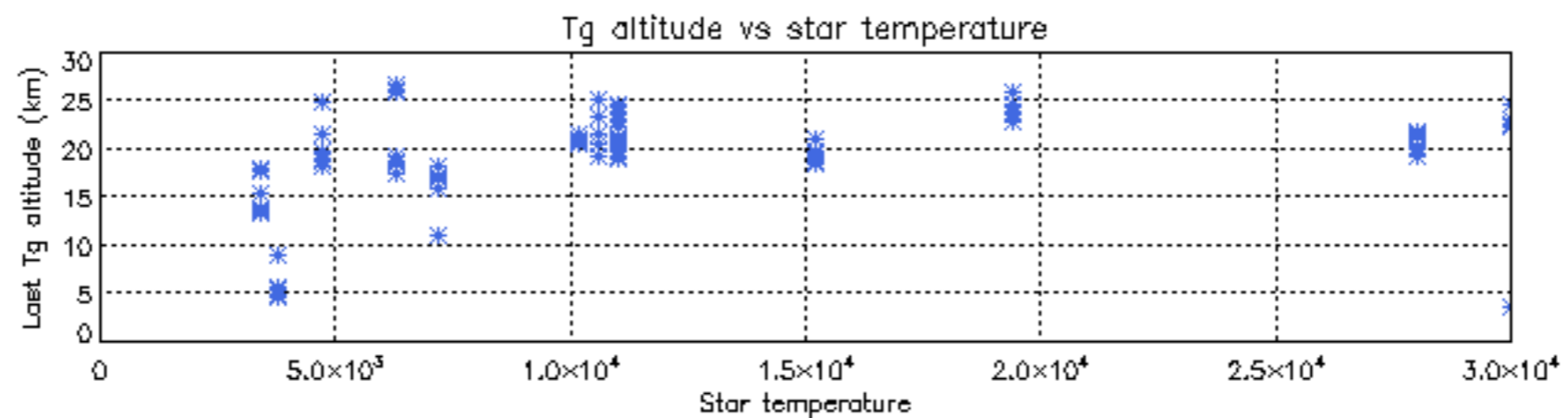
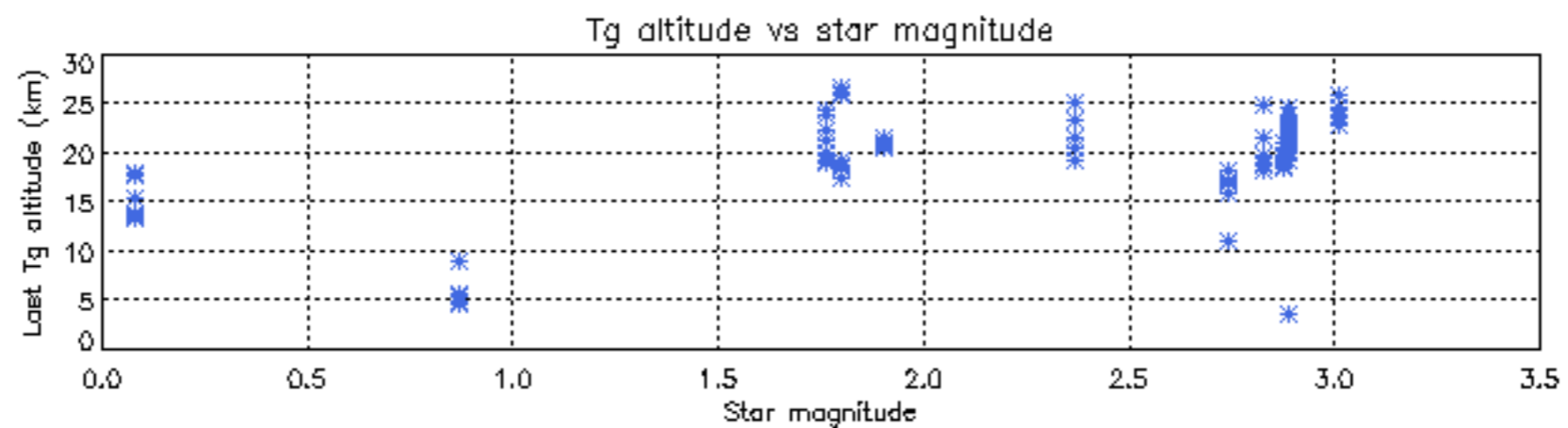
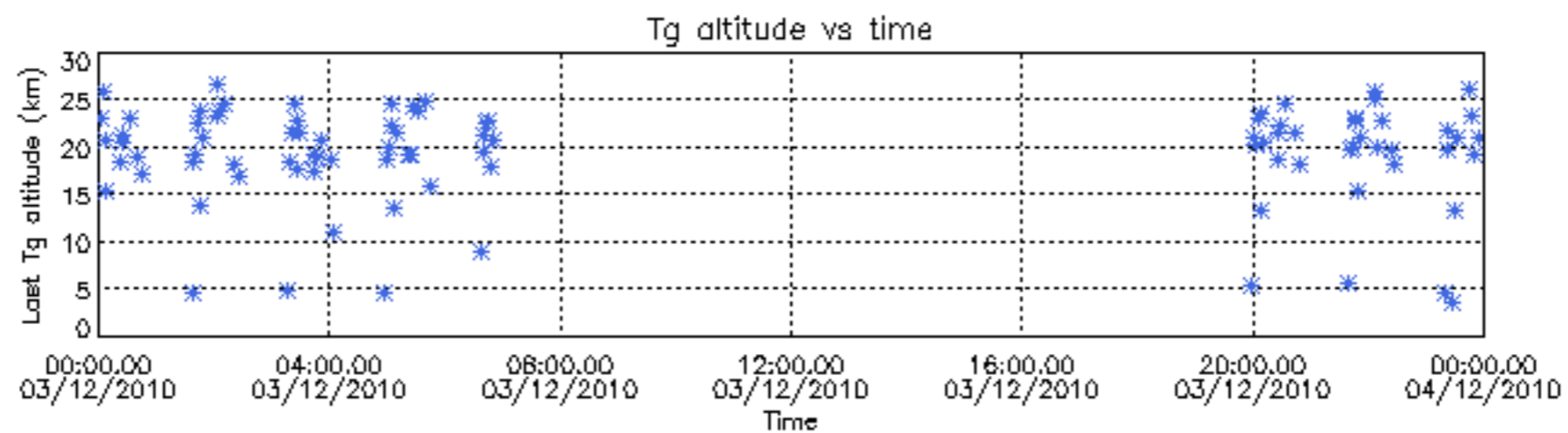
Percentage of saturation errors per profile

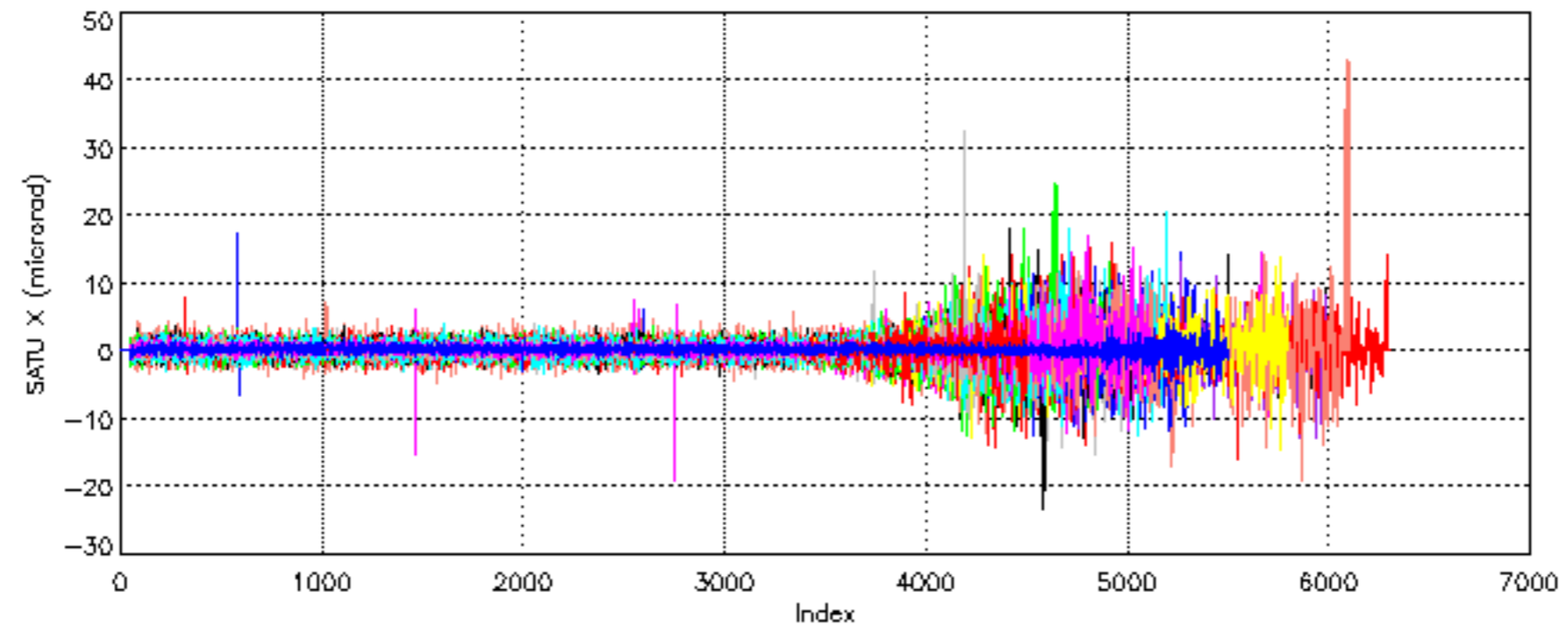


Tangent altitude at which the star is lost

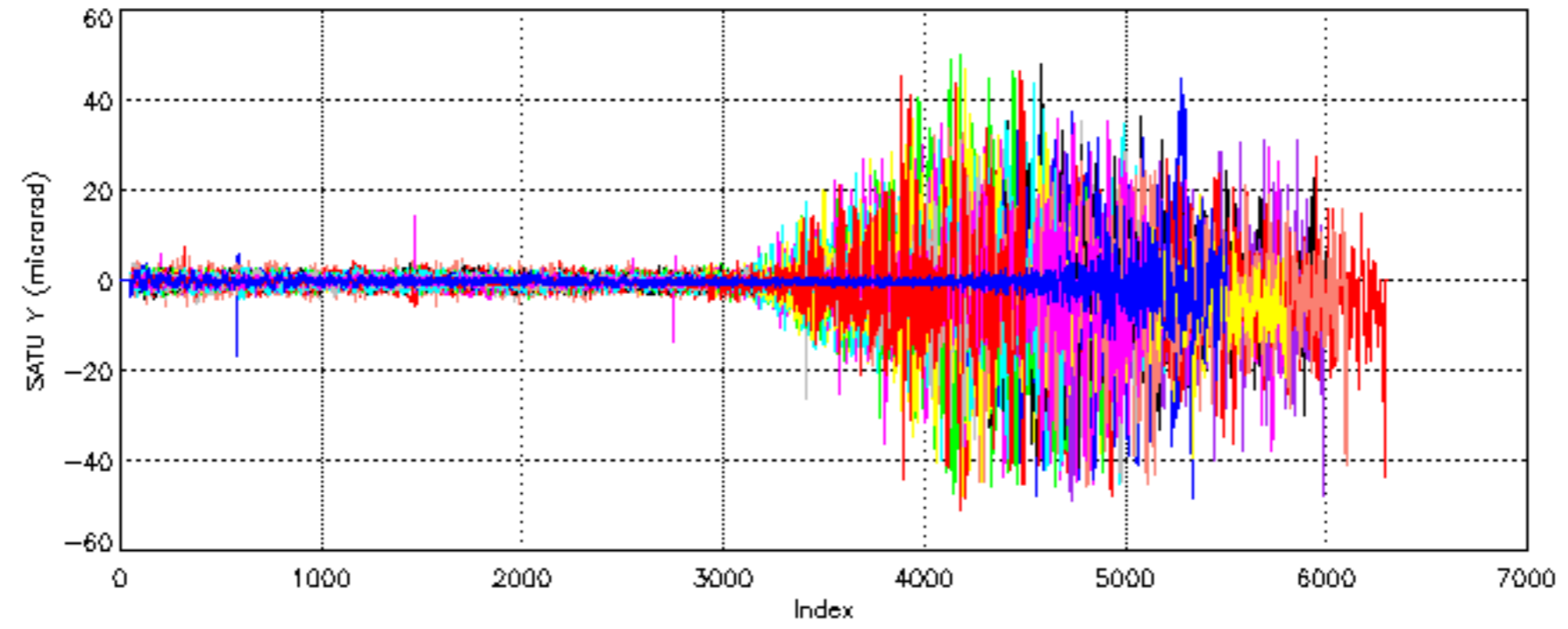


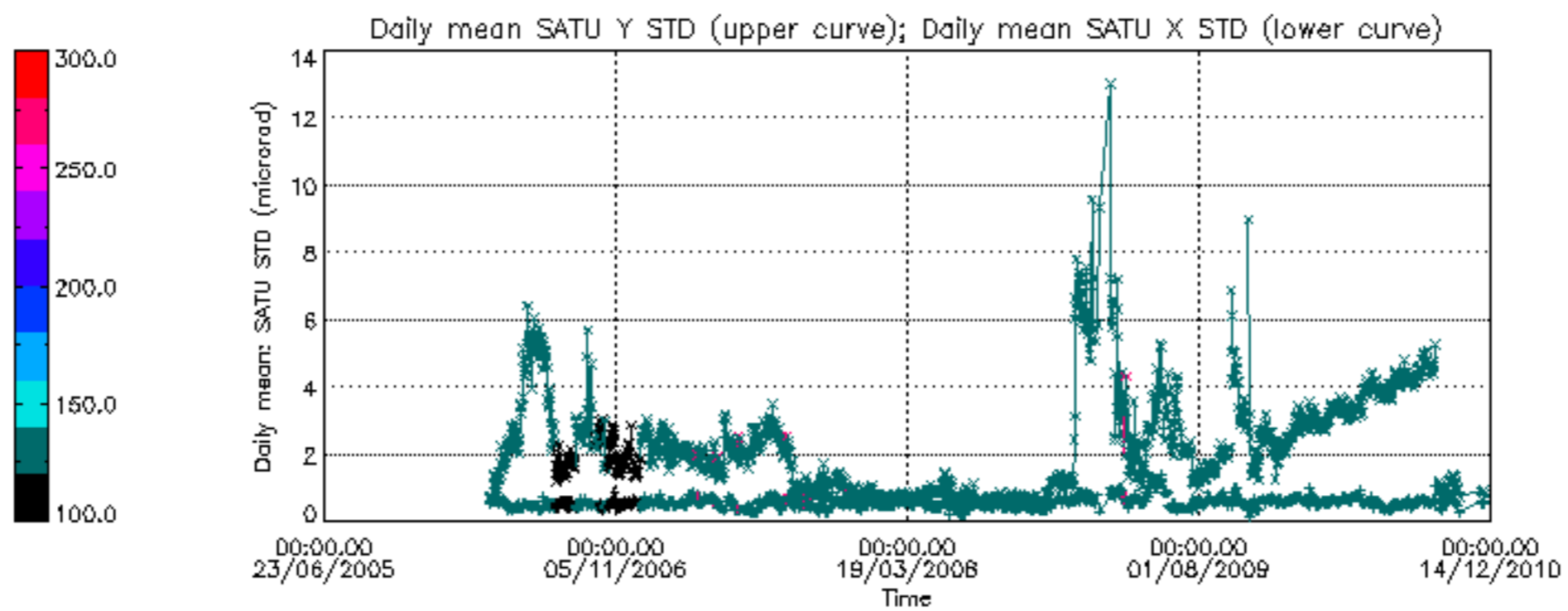
Tangent altitude at which the star is lost











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1; -581.2; 01-DEC-2010 00:22:35; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;45763  
 2; -485.7; 01-DEC-2010 00:24:11; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45763  
 3; 80.8; 01-DEC-2010 00:33:37; Dark ; 42.0; 113; Mu Vel ; 2.69; 5000;occ; 84; 0;45764  
 4; 404.8; 01-DEC-2010 00:39:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45764  
 5; 595.6; 01-DEC-2010 00:42:12; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;45764  
 6; 797.9; 01-DEC-2010 00:45:35; Dark ; 49.0; 2; Alp Car ;-0.74; 7000;occ; 98; 0;45764  
 7; 907.6; 01-DEC-2010 00:47:24; Dark ; 59.5; 117; Pi Pup ; 2.71; 3800;occ; 119; 0;45764  
 8; 1181.6; 01-DEC-2010 00:51:58; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45764  
 9; 1523.2; 01-DEC-2010 00:57:40; Dark ; 54.5; 101; 11Alp Lep ; 2.58; 7000;occ; 109; 0;45764  
 10; 1739.4; 01-DEC-2010 01:01:16; Dark ; 68.5; 7; 19Bet Ori ; 0.10; 14000;occ; 137; 0;45764  
 11; 2218.1; 01-DEC-2010 01:09:15; Bright; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45764  
 12; 2314.7; 01-DEC-2010 01:10:51; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45764  
 13; 2456.2; 01-DEC-2010 01:13:13; Bright; 36.5; 150; 44Zet Per ; 2.89; 28000;occ; 73; 0;45764  
 14; 2601.4; 01-DEC-2010 01:15:38; Bright; 37.0; 149; 45Eps Per ; 2.89; 30000;occ; 74; 0;45764  
 15; 2722.5; 01-DEC-2010 01:17:39; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45764  
 16; 2831.7; 01-DEC-2010 01:19:28; Bright; 53.0; 6; 13Alp Aur ; 0.08; 3400;occ; 106; 0;45764  
 17; 2940.4; 01-DEC-2010 01:21:17; Bright; 42.0; 42; 34Bet Aur ; 1.90; 10200;occ; 84; 0;45764  
 18; 3801.3; 01-DEC-2010 01:35:38; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;45764  
 19; 3896.8; 01-DEC-2010 01:37:13; Bright; 68.0; 82; 48Bet UMa ; 2.37; 10600;occ; 136; 0;45764  
 20; 3994.3; 01-DEC-2010 01:38:51; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;45764  
 21; 4165.0; 01-DEC-2010 01:41:42; Bright; 52.0; 174; 52Psi UMa ; 3.00; 4400;occ; 104; 0;45764  
 22; 4326.2; 01-DEC-2010 01:44:23; Bright; 39.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 78; 0;45764  
 23; 4896.6; 01-DEC-2010 01:53:53; Bright; 56.5; 62; 94Bet Leo ; 2.14; 9700;occ; 113; 0;45764  
 24; 5095.3; 01-DEC-2010 01:57:12; Bright; 23.5; 121; 29Gam Vir ; 2.74; 7200;occ; 47; 0;45764

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1; -918.7; 01-DEC-2010 01:57:12; Bright; 62.0; 121; 29Gam Vir ; 2.74; 7200;occ; 124; 0;45764  
 2; 81.8; 01-DEC-2010 02:13:52; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45765  
 3; 405.6; 01-DEC-2010 02:19:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45765  
 4; 596.6; 01-DEC-2010 02:22:27; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45765  
 5; 798.6; 01-DEC-2010 02:25:49; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;45765  
 6; 908.6; 01-DEC-2010 02:27:39; Dark ; 64.0; 117; Pi Pup ; 2.71; 3800;occ; 128; 0;45765  
 7; 1182.1; 01-DEC-2010 02:32:13; Dark ; 47.0; 108; Alp Col ; 2.65; 15200;occ; 94; 0;45765  
 8; 1523.4; 01-DEC-2010 02:37:54; Dark ; 55.0; 101; 11Alp Lep ; 2.58; 7000;occ; 110; 0;45765  
 9; 1739.4; 01-DEC-2010 02:41:30; Dark ; 59.0; 7; 19Bet Ori ; 0.10; 14000;occ; 118; 0;45765  
 10; 2217.8; 01-DEC-2010 02:49:28; Bright; 59.0; 13; 87Alp Tau ; 0.87; 3800;occ; 118; 0;45765  
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 14; 2722.2; 01-DEC-2010 02:57:53; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45765  
 15; 2831.1; 01-DEC-2010 02:59:42; Bright; 53.5; 6; 13Alp Aur ; 0.08; 3400;occ; 107; 0;45765  
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1; -2213.0; 01-DEC-2010 03:15:52; Bright; 45.5; 36; 50Alp UMa ; 1.80; 6300;occ; 91; 0;45765  
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 10; 82.7; 01-DEC-2010 03:54:07; Dark ; 42.5; 113; Mu Vel ; 2.69; 5000;occ; 85; 0;45766  
 11; 406.4; 01-DEC-2010 03:59:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45766  
 12; 597.5; 01-DEC-2010 04:02:42; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45766  
 13; 799.1; 01-DEC-2010 04:06:04; Dark ; 56.0; 2; Alp Car ;-0.74; 7000;occ; 112; 0;45766  
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17; 5533.2; 01-DEC-2010 10:25:40; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;45769
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19; 6423.8; 01-DEC-2010 10:40:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45770
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22; 6926.9; 01-DEC-2010 10:48:54; Dark ; 62.0; 117; Pi Pup ; 2.71; 3800;occ; 124; 0;45770
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 5; 2314.1; 01-DEC-2010 11:12:15; Bright; 37.0; 146; 25Eta Tau ; 2.87; 15200;occ; 74; 0;45770
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23; 6815.7; 01-DEC-2010 12:27:17; Dark ; 47.5; 2; Alp Car ;-0.74; 7000;occ; 95; 0;45771
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 6; 2455.0; 01-DEC-2010 12:54:50; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;45771
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23; 6816.8; 01-DEC-2010 15:47:46; Dark ; 56.0; 2; Alp Car ; -0.74; 7000;occ; 112; 0;45773
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5; 2313.6; 01-DEC-2010 16:12:56; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;45773
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| 6;  | 2215.0; | 01-DEC-2010 | 17:51:32; | Dark    | ; | 63.0; | 13;  | 87Alp Tau | ; | 0.87;  | 3800;  | occ; | 126; | 0; | 45774 |
| 7;  | 2313.3; | 01-DEC-2010 | 17:53:10; | Bright; | ; | 39.5; | 146; | 25Eta Tau | ; | 2.87;  | 15200; | occ; | 79;  | 0; | 45774 |
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| 12; | 2931.3; | 01-DEC-2010 | 18:03:28; | Bright; | ; | 49.5; | 42;  | 34Bet Aur | ; | 1.90;  | 10200; | occ; | 99;  | 0; | 45774 |
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| 22; | 6103.7; | 01-DEC-2010 | 18:56:21; | Dark    | ; | 44.5; | 113; | Mu Vel    | ; | 2.69;  | 5000;  | occ; | 89;  | 0; | 45775 |
| 23; | 6428.1; | 01-DEC-2010 | 19:01:45; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;     | occ; | 119; | 0; | 45775 |
| 24; | 6619.6; | 01-DEC-2010 | 19:04:57; | Dark    | ; | 49.0; | 34;  | Gam2Vel   | ; | 1.79;  | 23000; | occ; | 98;  | 0; | 45775 |
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| 7;  | 2214.7; | 01-DEC-2010 | 19:31:46; | Dark    | ; | 55.5; | 13;  | 87Alp Tau | ; | 0.87;  | 3800;  | occ; | 111; | 0; | 45775 |
| 8;  | 2313.2; | 01-DEC-2010 | 19:33:24; | Bright; | ; | 39.0; | 146; | 25Eta Tau | ; | 2.87;  | 15200; | occ; | 78;  | 0; | 45775 |
| 9;  | 2454.1; | 01-DEC-2010 | 19:35:45; | Bright; | ; | 38.5; | 150; | 44Zet Per | ; | 2.89;  | 28000; | occ; | 77;  | 0; | 45775 |
| 10; | 2598.9; | 01-DEC-2010 | 19:38:10; | Bright; | ; | 41.5; | 149; | 45Eps Per | ; | 2.89;  | 30000; | occ; | 83;  | 0; | 45775 |
| 11; | 2720.6; | 01-DEC-2010 | 19:40:12; | Bright; | ; | 36.5; | 175; | 39Del Per | ; | 3.01;  | 19400; | occ; | 73;  | 0; | 45775 |
| 12; | 2824.8; | 01-DEC-2010 | 19:41:56; | Bright; | ; | 49.5; | 6;   | 13Alp Aur | ; | 0.08;  | 3400;  | occ; | 99;  | 0; | 45775 |
| 13; | 2930.3; | 01-DEC-2010 | 19:43:41; | Bright; | ; | 49.5; | 42;  | 34Bet Aur | ; | 1.90;  | 10200; | occ; | 99;  | 0; | 45775 |
| 14; | 3797.5; | 01-DEC-2010 | 19:58:09; | Bright; | ; | 42.5; | 36;  | 50Alp UMa | ; | 1.80;  | 6300;  | occ; | 85;  | 0; | 45775 |
| 15; | 3892.7; | 01-DEC-2010 | 19:59:44; | Bright; | ; | 44.0; | 82;  | 48Bet UMa | ; | 2.37;  | 10600; | occ; | 88;  | 0; | 45775 |
| 16; | 3993.4; | 01-DEC-2010 | 20:01:25; | Bright; | ; | 37.5; | 32;  | 77Eps UMa | ; | 1.76;  | 11000; | occ; | 75;  | 0; | 45775 |
| 17; | 4162.0; | 01-DEC-2010 | 20:04:13; | Bright; | ; | 40.0; | 174; | 52Psi UMa | ; | 3.00;  | 4400;  | occ; | 80;  | 0; | 45775 |
| 18; | 4327.0; | 01-DEC-2010 | 20:06:58; | Bright; | ; | 39.0; | 152; | 12Alp2CVn | ; | 2.89;  | 11000; | occ; | 78;  | 0; | 45775 |
| 19; | 4904.4; | 01-DEC-2010 | 20:16:36; | Bright; | ; | 56.5; | 62;  | 94Bet Leo | ; | 2.14;  | 9700;  | occ; | 113; | 0; | 45775 |
| 20; | 5101.7; | 01-DEC-2010 | 20:19:53; | Bright; | ; | 42.5; | 121; | 29Gam Vir | ; | 2.74;  | 7200;  | occ; | 85;  | 0; | 45775 |
| 21; | 5442.6; | 01-DEC-2010 | 20:25:34; | Dark    | ; | 47.0; | 100; | 4Gam Crv  | ; | 2.58;  | 13100; | occ; | 94;  | 0; | 45775 |
| 22; | 5538.2; | 01-DEC-2010 | 20:27:09; | Dark    | ; | 47.5; | 171; | 2Eps Crv  | ; | 3.00;  | 4250;  | occ; | 95;  | 0; | 45775 |
| 23; | 6104.4; | 01-DEC-2010 | 20:36:36; | Dark    | ; | 42.0; | 113; | Mu Vel    | ; | 2.69;  | 5000;  | occ; | 84;  | 0; | 45776 |
| 24; | 6428.9; | 01-DEC-2010 | 20:42:00; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;     | occ; | 119; | 0; | 45776 |
| 25; | 6620.3; | 01-DEC-2010 | 20:45:11; | Dark    | ; | 52.5; | 34;  | Gam2Vel   | ; | 1.79;  | 23000; | occ; | 105; | 0; | 45776 |
| 26; | 6818.2; | 01-DEC-2010 | 20:48:29; | Dark    | ; | 49.0; | 2;   | Alp Car   | ; | -0.74; | 7000;  | occ; | 98;  | 0; | 45776 |

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|     |         |             |           |         |   |       |      |           |   |        |        |      |      |    |       |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1;  | -473.3; | 02-DEC-2010 | 01:27:54; | Dark    | ; | 47.5; | 171; | 2Eps Crv  | ; | 3.00;  | 4250;  | occ; | 95;  | 0; | 45778 |
| 2;  | 92.9;   | 02-DEC-2010 | 01:37:20; | Dark    | ; | 42.5; | 113; | Mu Vel    | ; | 2.69;  | 5000;  | occ; | 85;  | 0; | 45779 |
| 3;  | 417.4;  | 02-DEC-2010 | 01:42:44; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;     | occ; | 119; | 0; | 45779 |
| 4;  | 608.9;  | 02-DEC-2010 | 01:45:56; | Dark    | ; | 48.5; | 34;  | Gam2Vel   | ; | 1.79;  | 23000; | occ; | 97;  | 0; | 45779 |
| 5;  | 805.9;  | 02-DEC-2010 | 01:49:13; | Dark    | ; | 49.5; | 2;   | Alp Car   | ; | -0.74; | 7000;  | occ; | 99;  | 0; | 45779 |
| 6;  | 920.4;  | 02-DEC-2010 | 01:51:07; | Dark    | ; | 63.5; | 117; | Pi Pup    | ; | 2.71;  | 3800;  | occ; | 127; | 0; | 45779 |
| 7;  | 1188.0; | 02-DEC-2010 | 01:55:35; | Dark    | ; | 47.5; | 108; | Alp Col   | ; | 2.65;  | 15200; | occ; | 95;  | 0; | 45779 |
| 8;  | 1525.7; | 02-DEC-2010 | 02:01:13; | Dark    | ; | 54.5; | 101; | 11Alp Lep | ; | 2.58;  | 7000;  | occ; | 109; | 0; | 45779 |
| 9;  | 1738.6; | 02-DEC-2010 | 02:04:46; | Dark    | ; | 58.5; | 7;   | 19Bet Ori | ; | 0.10;  | 14000; | occ; | 117; | 0; | 45779 |
| 10; | 1930.1; | 02-DEC-2010 | 02:07:57; | Dark    | ; | 39.0; | 72;  | 34Del Ori | ; | 2.25;  | 30000; | occ; | 78;  | 0; | 45779 |
| 11; | 2074.7; | 02-DEC-2010 | 02:10:22; | Dark    | ; | 53.0; | 27;  | 24Gam Ori | ; | 1.64;  | 26000; | occ; | 106; | 0; | 45779 |
| 12; | 2213.6; | 02-DEC-2010 | 02:12:41; | Dark    | ; | 60.5; | 13;  | 87Alp Tau | ; | 0.87;  | 3800;  | occ; | 121; | 0; | 45779 |
| 13; | 2312.7; | 02-DEC-2010 | 02:14:20; | Bright; | ; | 37.0; | 146; | 25Eta Tau | ; | 2.87;  | 15200; | occ; | 74;  | 0; | 45779 |



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15; 2597.9; 02-DEC-2010 02:19:05; Bright; 38.0; 149; 45Eps Per ; 2.89; 30000;occ; 76; 0;45779
16; 2720.1; 02-DEC-2010 02:21:07; Bright; 36.0; 175; 39Del Per ; 3.01; 19400;occ; 72; 0;45779
17; 2822.4; 02-DEC-2010 02:22:49; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;45779
18; 2926.6; 02-DEC-2010 02:24:34; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;45779
19; 3796.1; 02-DEC-2010 02:39:03; Bright; 41.0; 36; 50Alp UMa ; 1.80; 6300;occ; 82; 0;45779
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21; 3993.2; 02-DEC-2010 02:42:20; Bright; 38.5; 32; 77Eps UMa ; 1.76; 11000;occ; 77; 0;45779
22; 4161.0; 02-DEC-2010 02:45:08; Bright; 29.0; 174; 52Psi UMa ; 3.00; 4400;occ; 58; 0;45779
23; 4327.3; 02-DEC-2010 02:47:54; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;45779
24; 4907.3; 02-DEC-2010 02:57:34; Bright; 50.0; 62; 94Bet Leo ; 2.14; 9700;occ; 100; 0;45779
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26; 5446.0; 02-DEC-2010 03:06:33; Dark ; 48.0; 100; 4Gam Crv ; 2.58; 13100;occ; 96; 0;45779
27; 5541.7; 02-DEC-2010 03:08:09; Dark ; 46.5; 171; 2Eps Crv ; 3.00; 4250;occ; 93; 0;45779
28; 6107.8; 02-DEC-2010 03:17:35; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45780
29; 6432.2; 02-DEC-2010 03:22:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45780
30; 6624.1; 02-DEC-2010 03:26:11; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;45780
31; 6820.5; 02-DEC-2010 03:29:28; Dark ; 48.5; 2; Alp Car ;-0.74; 7000;occ; 97; 0;45780
32; 6935.1; 02-DEC-2010 03:31:22; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45780
33; 7202.6; 02-DEC-2010 03:35:50; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45780
34; 7539.9; 02-DEC-2010 03:41:27; Dark ; 53.0; 101; 11Alp Lep ; 2.58; 7000;occ; 106; 0;45780
35; 7752.7; 02-DEC-2010 03:45:00; Dark ; 57.5; 7; 19Bet Ori ; 0.10; 14000;occ; 115; 0;45780
36; 7944.0; 02-DEC-2010 03:48:11; Dark ; 46.0; 72; 34Del Ori ; 2.25; 30000;occ; 92; 0;45780
37; 8088.3; 02-DEC-2010 03:50:35; Dark ; 58.0; 27; 24Gam Ori ; 1.64; 26000;occ; 116; 0;45780
38; 8227.3; 02-DEC-2010 03:52:54; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;45780
39; 8326.8; 02-DEC-2010 03:54:34; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45780
40; 8467.3; 02-DEC-2010 03:56:54; Bright; 39.0; 150; 44Zet Per ; 2.89; 28000;occ; 78; 0;45780
41; 8611.8; 02-DEC-2010 03:59:19; Bright; 36.5; 149; 45Eps Per ; 2.89; 30000;occ; 73; 0;45780
42; 8733.8; 02-DEC-2010 04:01:21; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45780
43; 8835.8; 02-DEC-2010 04:03:03; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;45780
44; 8939.8; 02-DEC-2010 04:04:47; Bright; 51.0; 42; 34Bet Aur ; 1.90; 10200;occ; 102; 0;45780
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 3; -2021.0; 02-DEC-2010 04:22:34; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;45780
 4; -1686.8; 02-DEC-2010 04:28:08; Bright; 43.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 86; 0;45780
 5; -1106.0; 02-DEC-2010 04:37:49; Bright; 41.0; 62; 94Bet Leo ; 2.14; 9700;occ; 82; 0;45780
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 9; 94.3; 02-DEC-2010 04:57:50; Dark ; 43.5; 113; Mu Vel ; 2.69; 5000;occ; 87; 0;45781
10; 419.0; 02-DEC-2010 05:03:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45781
11; 610.8; 02-DEC-2010 05:06:26; Dark ; 49.0; 34; Gam2Vel ; 1.79; 23000;occ; 98; 0;45781
12; 807.0; 02-DEC-2010 05:09:42; Dark ; 58.0; 2; Alp Car ;-0.74; 7000;occ; 116; 0;45781
13; 921.9; 02-DEC-2010 05:11:37; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;45781
14; 1188.9; 02-DEC-2010 05:16:04; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45781
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16; 1738.7; 02-DEC-2010 05:25:14; Dark ; 60.5; 7; 19Bet Ori ; 0.10; 14000;occ; 121; 0;45781
17; 1929.6; 02-DEC-2010 05:28:25; Dark ; 46.0; 72; 34Del Ori ; 2.25; 30000;occ; 92; 0;45781
18; 2073.8; 02-DEC-2010 05:30:49; Dark ; 58.0; 27; 24Gam Ori ; 1.64; 26000;occ; 116; 0;45781
19; 2212.9; 02-DEC-2010 05:33:08; Dark ; 59.5; 13; 87Alp Tau ; 0.87; 3800;occ; 119; 0;45781
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21; 2453.0; 02-DEC-2010 05:37:08; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;45781
22; 2597.6; 02-DEC-2010 05:39:33; Bright; 38.5; 149; 45Eps Per ; 2.89; 30000;occ; 77; 0;45781
23; 2719.7; 02-DEC-2010 05:41:35; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45781
24; 2821.1; 02-DEC-2010 05:43:16; Bright; 49.5; 6; 13Alp Aur ; 0.08; 3400;occ; 99; 0;45781
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 3; 1152.1; 02-DEC-2010 20:17:34; Dark ; 28.0; 23; 21Eps CMA ; 1.50; 26000;occ; 56; 0;45790
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 5; 1527.1; 02-DEC-2010 20:23:49; Dark ; 51.0; 101; 11Alp Lep ; 2.58; 7000;occ; 102; 0;45790
 6; 1737.8; 02-DEC-2010 20:27:19; Dark ; 57.5; 7; 19Bet Ori ; 0.10; 14000;occ; 115; 0;45790
 7; 1910.1; 02-DEC-2010 20:30:12; Dark ; 41.0; 30; 46Eps Ori ; 1.69; 30000;occ; 82; 0;45790
 8; 2069.5; 02-DEC-2010 20:32:51; Dark ; 59.0; 27; 24Gam Ori ; 1.64; 26000;occ; 118; 0;45790
 9; 2209.9; 02-DEC-2010 20:35:11; Dark ; 62.0; 13; 87Alp Tau ; 0.87; 3800;occ; 124; 0;45790
10; 2311.3; 02-DEC-2010 20:36:53; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;45790

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 12; 2595.4; 02-DEC-2010 20:41:37; Bright; 37.5; 149; 45Eps Per ; 2.89; 30000;occ; 75; 0;45790  
 13; 2718.1; 02-DEC-2010 20:43:40; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;45790  
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 17; 3886.8; 02-DEC-2010 21:03:08; Bright; 46.5; 82; 48Bet UMa ; 2.37; 10600;occ; 93; 0;45790  
 18; 3991.9; 02-DEC-2010 21:04:53; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45790  
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 13; 2068.6; 02-DEC-2010 23:53:18; Dark ; 62.5; 27; 24Gam Ori ; 1.64; 26000;occ; 125; 0;45792  
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 18; 2717.7; 03-DEC-2010 00:04:07; Bright; 35.0; 175; 39Del Per ; 3.01; 19400;occ; 70; 0;45792  
 19; 2814.2; 03-DEC-2010 00:05:44; Bright; 49.0; 6; 13Alp Aur ; 0.08; 3400;occ; 98; 0;45792  
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 3; 1914.8; 05-DEC-2010 13:39:23; Dark ; 45.0; 72; 34Del Ori ; 2.25; 30000;occ; 90; 0;45829  
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6; 2307.4; 05-DEC-2010 13:45:56; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45829  
7; 2444.8; 05-DEC-2010 13:48:13; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45829  
8; 2534.8; 05-DEC-2010 13:49:43; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;45829  
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11; 3777.2; 05-DEC-2010 14:10:26; Bright; 46.0; 36; 50Alp UMa ; 1.80; 6300;occ; 92; 0;45829  
12; 3870.4; 05-DEC-2010 14:11:59; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;45829  
13; 3987.5; 05-DEC-2010 14:13:56; Bright; 39.5; 32; 77Eps UMa ; 1.76; 11000;occ; 79; 0;45829  
14; 4120.2; 05-DEC-2010 14:16:09; Bright; 55.0; 39; 85Eta UMa ; 1.85; 24000;occ; 110; 0;45829  
15; 4329.4; 05-DEC-2010 14:19:38; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45829  
16; 4666.8; 05-DEC-2010 14:25:15; Bright; 36.0; 111; 8Eta Boo ; 2.68; 6000;occ; 72; 0;45829  
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18; 5136.4; 05-DEC-2010 14:33:05; Dark ; 55.0; 121; 29Gam Vir ; 2.74; 7200;occ; 110; 0;45829  
19; 5490.0; 05-DEC-2010 14:38:59; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;45829  
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21; 6147.9; 05-DEC-2010 14:49:57; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45830  
22; 6473.7; 05-DEC-2010 14:55:22; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45830  
23; 6666.6; 05-DEC-2010 14:58:35; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45830  
24; 6845.2; 05-DEC-2010 15:01:34; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;45830  
25; 6974.5; 05-DEC-2010 15:03:43; Dark ; 63.0; 117; Pi Pup ; 2.71; 3800;occ; 126; 0;45830  
26; 7221.7; 05-DEC-2010 15:07:50; Dark ; 42.5; 108; Alp Col ; 2.65; 15200;occ; 85; 0;45830

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3; 1914.6; 05-DEC-2010 15:19:37; Dark ; 52.0; 72; 34Del Ori ; 2.25; 30000;occ; 104; 0;45830  
4; 2052.7; 05-DEC-2010 15:21:55; Dark ; 58.0; 27; 24Gam Ori ; 1.64; 26000;occ; 116; 0;45830  
5; 2199.2; 05-DEC-2010 15:24:22; Dark ; 58.5; 13; 87Alp Tau ; 0.87; 3800;occ; 117; 0;45830  
6; 2307.4; 05-DEC-2010 15:26:10; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45830  
7; 2444.7; 05-DEC-2010 15:28:27; Bright; 38.5; 150; 44Zet Per ; 2.89; 28000;occ; 77; 0;45830  
8; 2534.4; 05-DEC-2010 15:29:57; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;45830  
9; 3776.8; 05-DEC-2010 15:50:39; Bright; 47.0; 36; 50Alp UMa ; 1.80; 6300;occ; 94; 0;45830  
10; 3870.3; 05-DEC-2010 15:52:13; Bright; 48.5; 82; 48Bet UMa ; 2.37; 10600;occ; 97; 0;45830  
11; 3987.6; 05-DEC-2010 15:54:10; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;45830  
12; 4120.3; 05-DEC-2010 15:56:23; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;45830  
13; 4329.6; 05-DEC-2010 15:59:52; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;45830  
14; 4667.1; 05-DEC-2010 16:05:30; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45830  
15; 4863.3; 05-DEC-2010 16:08:46; Bright; 49.5; 138; 47Eps Vir ; 2.83; 4700;occ; 99; 0;45830  
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17; 5491.0; 05-DEC-2010 16:19:14; Dark ; 50.5; 100; 4Gam Crv ; 2.58; 13100;occ; 101; 0;45830  
18; 5587.1; 05-DEC-2010 16:20:50; Dark ; 52.0; 171; 2Eps Crv ; 3.00; 4250;occ; 104; 0;45830  
19; 6148.9; 05-DEC-2010 16:30:12; Dark ; 44.0; 113; Mu Vel ; 2.69; 5000;occ; 88; 0;45831  
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21; 6667.4; 05-DEC-2010 16:38:50; Dark ; 50.0; 34; Gam2Vel ; 1.79; 23000;occ; 100; 0;45831  
22; 6845.8; 05-DEC-2010 16:41:48; Dark ; 51.0; 2; Alp Car ; -0.74; 7000;occ; 102; 0;45831  
23; 6975.2; 05-DEC-2010 16:43:58; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;45831  
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3; 1736.3; 05-DEC-2010 16:56:53; Dark ; 58.5; 7; 19Bet Ori ; 0.10; 14000;occ; 117; 0;45831  
4; 1914.2; 05-DEC-2010 16:59:51; Dark ; 52.0; 72; 34Del Ori ; 2.25; 30000;occ; 104; 0;45831  
5; 2052.2; 05-DEC-2010 17:02:09; Dark ; 56.0; 27; 24Gam Ori ; 1.64; 26000;occ; 112; 0;45831  
6; 2199.0; 05-DEC-2010 17:04:36; Dark ; 60.0; 13; 87Alp Tau ; 0.87; 3800;occ; 120; 0;45831  
7; 2307.3; 05-DEC-2010 17:06:24; Bright; 38.5; 146; 25Eta Tau ; 2.87; 15200;occ; 77; 0;45831  
8; 2444.3; 05-DEC-2010 17:08:41; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45831  
9; 2533.9; 05-DEC-2010 17:10:11; Bright; 44.5; 114; 3Iot Aur ; 2.69; 4600;occ; 89; 0;45831  
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11; 3869.7; 05-DEC-2010 17:32:26; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 90; 0;45831  
12; 3987.2; 05-DEC-2010 17:34:24; Bright; 38.0; 32; 77Eps UMa ; 1.76; 11000;occ; 76; 0;45831  
13; 4120.2; 05-DEC-2010 17:36:37; Bright; 39.0; 39; 85Eta UMa ; 1.85; 24000;occ; 78; 0;45831  
14; 4329.6; 05-DEC-2010 17:40:06; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;45831  
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16; 4863.7; 05-DEC-2010 17:49:00; Bright; 62.0; 138; 47Eps Vir ; 2.83; 4700;occ; 124; 0;45831  
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22; 6668.3; 05-DEC-2010 18:19:05; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45832
23; 6846.1; 05-DEC-2010 18:22:03; Dark ; 57.0; 2; Alp Car ;-0.74; 7000;occ; 114; 0;45832
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 3; 1533.2; 05-DEC-2010 18:33:44; Dark ; 52.5; 101; 11Alp Lep ; 2.58; 7000;occ; 105; 0;45832
 4; 1736.2; 05-DEC-2010 18:37:07; Dark ; 57.0; 7; 19Bet Ori ; 0.10; 14000;occ; 114; 0;45832
 5; 1913.9; 05-DEC-2010 18:40:05; Dark ; 52.5; 72; 34Del Ori ; 2.25; 30000;occ; 105; 0;45832
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11; 2711.8; 05-DEC-2010 18:53:23; Bright; 37.0; 175; 39Del Per ; 3.01; 19400;occ; 74; 0;45832
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13; 3869.1; 05-DEC-2010 19:12:40; Bright; 47.0; 82; 48Bet UMa ; 2.37; 10600;occ; 94; 0;45832
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18; 4864.0; 05-DEC-2010 19:29:15; Bright; 63.0; 138; 47Eps Vir ; 2.83; 4700;occ; 126; 0;45832
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21; 5588.9; 05-DEC-2010 19:41:20; Dark ; 51.5; 171; 2Eps Crv ; 3.00; 4250;occ; 103; 0;45832
22; 6150.4; 05-DEC-2010 19:50:41; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45833
23; 6476.2; 05-DEC-2010 19:56:07; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45833
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 5; 658.2; 06-DEC-2010 02:40:19; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;45837
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 7; 965.8; 06-DEC-2010 02:45:27; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45837
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 2; 1736.0; 07-DEC-2010 10:42:44; Dark ; 61.5; 7; 19Bet Ori ; 0.10; 14000;occ; 123; 0;45856  
 3; 1891.7; 07-DEC-2010 10:45:19; Dark ; 58.0; 30; 46Eps Ori ; 1.69; 30000;occ; 116; 0;45856  
 4; 2043.3; 07-DEC-2010 10:47:51; Dark ; 55.5; 27; 24Gam Ori ; 1.64; 26000;occ; 111; 0;45856  
 5; 2193.4; 07-DEC-2010 10:50:21; Dark ; 51.0; 13; 87Alp Tau ; 0.87; 3800;occ; 102; 0;45856  
 6; 2305.8; 07-DEC-2010 10:52:13; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;45856  
 7; 2441.6; 07-DEC-2010 10:54:29; Bright; 37.0; 150; 44Zet Per ; 2.89; 28000;occ; 74; 0;45856  
 8; 2522.8; 07-DEC-2010 10:55:50; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;45856  
 9; 2709.2; 07-DEC-2010 10:58:57; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45856  
 10; 2861.1; 07-DEC-2010 11:01:29; Bright; 46.5; 42; 34Bet Aur ; 1.90; 10200;occ; 93; 0;45856  
 11; 3766.2; 07-DEC-2010 11:16:34; Bright; 43.0; 36; 50Alp UMA ; 1.80; 6300;occ; 86; 0;45856  
 12; 3858.3; 07-DEC-2010 11:18:06; Bright; 49.5; 82; 48Bet UMA ; 2.37; 10600;occ; 99; 0;45856  
 13; 3983.9; 07-DEC-2010 11:20:11; Bright; 41.5; 32; 77Eps UMA ; 1.76; 11000;occ; 83; 0;45856  
 14; 4120.4; 07-DEC-2010 11:22:28; Bright; 39.5; 39; 85Eta UMA ; 1.85; 24000;occ; 79; 0;45856  
 15; 4330.4; 07-DEC-2010 11:25:58; Bright; 41.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 82; 0;45856  
 16; 4673.3; 07-DEC-2010 11:31:41; Bright; 37.0; 111; 8Eta Boo ; 2.68; 6000;occ; 74; 0;45856  
 17; 4875.1; 07-DEC-2010 11:35:03; Bright; 45.0; 138; 47Eps Vir ; 2.83; 4700;occ; 90; 0;45856  
 18; 5155.8; 07-DEC-2010 11:39:43; Dark ; 47.5; 121; 29Gam Vir ; 2.74; 7200;occ; 95; 0;45856  
 19; 5431.7; 07-DEC-2010 11:44:19; Dark ; 47.0; 169; 46Gam Hya ; 2.99; 4700;occ; 94; 0;45856



20; 5516.0; 07-DEC-2010 11:45:44; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;45856  
 21; 5612.2; 07-DEC-2010 11:47:20; Dark ; 54.0; 171; 2Eps Crv ; 3.00; 4250;occ; 108; 0;45856  
 22; 5968.2; 07-DEC-2010 11:53:16; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45856  
 23; 6170.4; 07-DEC-2010 11:56:38; Dark ; 45.5; 113; Mu Vel ; 2.69; 5000;occ; 91; 0;45857  
 24; 6495.6; 07-DEC-2010 12:02:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45857  
 25; 6688.9; 07-DEC-2010 12:05:16; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45857  
 26; 6857.9; 07-DEC-2010 12:08:05; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45857  
 27; 6994.4; 07-DEC-2010 12:10:22; Dark ; 60.0; 117; Pi Pup ; 2.71; 3800;occ; 120; 0;45857  
 28; 7231.5; 07-DEC-2010 12:14:19; Dark ; 44.0; 108; Alp Col ; 2.65; 15200;occ; 88; 0;45857  
 29; 7551.0; 07-DEC-2010 12:19:39; Dark ; 34.0; 101; 11Alp Lep ; 2.58; 7000;occ; 68; 0;45857

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1; 1537.0; 07-DEC-2010 12:19:39; Dark ; 45.5; 101; 11Alp Lep ; 2.58; 7000;occ; 91; 0;45857  
 2; 1735.9; 07-DEC-2010 12:22:57; Dark ; 62.0; 7; 19Bet Ori ; 0.10; 14000;occ; 124; 0;45857  
 3; 1891.7; 07-DEC-2010 12:25:33; Dark ; 57.0; 30; 46Eps Ori ; 1.69; 30000;occ; 114; 0;45857  
 4; 2043.0; 07-DEC-2010 12:28:04; Dark ; 54.5; 27; 24Gam Ori ; 1.64; 26000;occ; 109; 0;45857  
 5; 2193.2; 07-DEC-2010 12:30:35; Dark ; 52.5; 13; 87Alp Tau ; 0.87; 3800;occ; 105; 0;45857  
 6; 2305.9; 07-DEC-2010 12:32:27; Bright; 36.5; 146; 25Eta Tau ; 2.87; 15200;occ; 73; 0;45857  
 7; 2441.5; 07-DEC-2010 12:34:43; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45857  
 8; 2522.3; 07-DEC-2010 12:36:04; Bright; 42.5; 114; 3Iot Aur ; 2.69; 4600;occ; 85; 0;45857  
 9; 2709.0; 07-DEC-2010 12:39:11; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45857  
 10; 2860.5; 07-DEC-2010 12:41:42; Bright; 48.0; 42; 34Bet Aur ; 1.90; 10200;occ; 96; 0;45857  
 11; 3765.8; 07-DEC-2010 12:56:47; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;45857  
 12; 3857.9; 07-DEC-2010 12:58:19; Bright; 47.5; 82; 48Bet UMa ; 2.37; 10600;occ; 95; 0;45857  
 13; 3984.0; 07-DEC-2010 13:00:25; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45857  
 14; 4120.3; 07-DEC-2010 13:02:42; Bright; 37.0; 39; 85Eta UMa ; 1.85; 24000;occ; 74; 0;45857  
 15; 4330.6; 07-DEC-2010 13:06:12; Bright; 42.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 85; 0;45857  
 16; 4673.6; 07-DEC-2010 13:11:55; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;45857  
 17; 4875.5; 07-DEC-2010 13:15:17; Bright; 44.5; 138; 47Eps Vir ; 2.83; 4700;occ; 89; 0;45857  
 18; 5156.7; 07-DEC-2010 13:19:58; Dark ; 51.5; 121; 29Gam Vir ; 2.74; 7200;occ; 103; 0;45857  
 19; 5432.3; 07-DEC-2010 13:24:34; Dark ; 45.0; 169; 46Gam Hya ; 2.99; 4700;occ; 90; 0;45857  
 20; 5517.0; 07-DEC-2010 13:25:58; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45857  
 21; 5613.4; 07-DEC-2010 13:27:35; Dark ; 54.5; 171; 2Eps Crv ; 3.00; 4250;occ; 109; 0;45857  
 22; 5968.9; 07-DEC-2010 13:33:30; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45857  
 23; 6171.3; 07-DEC-2010 13:36:53; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45858  
 24; 6496.5; 07-DEC-2010 13:42:18; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45858  
 25; 6689.7; 07-DEC-2010 13:45:31; Dark ; 51.5; 34; Gam2Vel ; 1.79; 23000;occ; 103; 0;45858  
 26; 6858.3; 07-DEC-2010 13:48:20; Dark ; 48.5; 2; Alp Car ; -0.74; 7000;occ; 97; 0;45858  
 27; 6995.0; 07-DEC-2010 13:50:36; Dark ; 54.5; 117; Pi Pup ; 2.71; 3800;occ; 109; 0;45858  
 28; 7231.8; 07-DEC-2010 13:54:33; Dark ; 44.0; 108; Alp Col ; 2.65; 15200;occ; 88; 0;45858

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1; 1537.0; 07-DEC-2010 13:59:52; Dark ; 48.5; 101; 11Alp Lep ; 2.58; 7000;occ; 97; 0;45858  
 2; 1736.0; 07-DEC-2010 14:03:11; Dark ; 56.5; 7; 19Bet Ori ; 0.10; 14000;occ; 113; 0;45858  
 3; 1891.4; 07-DEC-2010 14:05:47; Dark ; 55.5; 30; 46Eps Ori ; 1.69; 30000;occ; 111; 0;45858  
 4; 2042.8; 07-DEC-2010 14:08:18; Dark ; 56.5; 27; 24Gam Ori ; 1.64; 26000;occ; 113; 0;45858  
 5; 2193.1; 07-DEC-2010 14:10:49; Dark ; 55.5; 13; 87Alp Tau ; 0.87; 3800;occ; 111; 0;45858  
 6; 2305.7; 07-DEC-2010 14:12:41; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;45858  
 7; 2441.4; 07-DEC-2010 14:14:57; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45858  
 8; 2521.9; 07-DEC-2010 14:16:17; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;45858  
 9; 2709.2; 07-DEC-2010 14:19:25; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45858  
 10; 2859.6; 07-DEC-2010 14:21:55; Bright; 48.0; 42; 34Bet Aur ; 1.90; 10200;occ; 96; 0;45858  
 11; 3765.5; 07-DEC-2010 14:37:01; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;45858  
 12; 3857.4; 07-DEC-2010 14:38:33; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;45858  
 13; 3983.8; 07-DEC-2010 14:40:39; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;45858  
 14; 4120.4; 07-DEC-2010 14:42:56; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45858  
 15; 4330.6; 07-DEC-2010 14:46:26; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45858  
 16; 4673.9; 07-DEC-2010 14:52:09; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;45858  
 17; 4876.0; 07-DEC-2010 14:55:31; Bright; 64.0; 138; 47Eps Vir ; 2.83; 4700;occ; 128; 0;45858  
 18; 5157.5; 07-DEC-2010 15:00:13; Dark ; 53.5; 121; 29Gam Vir ; 2.74; 7200;occ; 107; 0;45858  
 19; 5432.9; 07-DEC-2010 15:04:48; Dark ; 43.0; 169; 46Gam Hya ; 2.99; 4700;occ; 86; 0;45858  
 20; 5518.1; 07-DEC-2010 15:06:14; Dark ; 54.5; 100; 4Gam Crv ; 2.58; 13100;occ; 109; 0;45858  
 21; 5614.4; 07-DEC-2010 15:07:50; Dark ; 50.0; 171; 2Eps Crv ; 3.00; 4250;occ; 100; 0;45858  
 22; 5969.5; 07-DEC-2010 15:13:45; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45858  
 23; 6172.2; 07-DEC-2010 15:17:08; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45859  
 24; 6497.4; 07-DEC-2010 15:22:33; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45859  
 25; 6690.5; 07-DEC-2010 15:25:46; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45859  
 26; 6858.9; 07-DEC-2010 15:28:34; Dark ; 55.0; 2; Alp Car ; -0.74; 7000;occ; 110; 0;45859  
 27; 6995.8; 07-DEC-2010 15:30:51; Dark ; 61.5; 117; Pi Pup ; 2.71; 3800;occ; 123; 0;45859  
 28; 7232.1; 07-DEC-2010 15:34:48; Dark ; 46.5; 108; Alp Col ; 2.65; 15200;occ; 93; 0;45859

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1; 1537.2; 07-DEC-2010 15:40:07; Dark ; 49.0; 101; 11Alp Lep ; 2.58; 7000;occ; 98; 0;45859  
 2; 1735.8; 07-DEC-2010 15:43:25; Dark ; 53.5; 7; 19Bet Ori ; 0.10; 14000;occ; 107; 0;45859  
 3; 1891.2; 07-DEC-2010 15:46:01; Dark ; 55.5; 30; 46Eps Ori ; 1.69; 30000;occ; 111; 0;45859  
 4; 2042.4; 07-DEC-2010 15:48:32; Dark ; 55.5; 27; 24Gam Ori ; 1.64; 26000;occ; 111; 0;45859  
 5; 2192.9; 07-DEC-2010 15:51:02; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;45859  
 6; 2305.6; 07-DEC-2010 15:52:55; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45859  
 7; 2441.0; 07-DEC-2010 15:55:11; Bright; 38.0; 150; 44Zet Per ; 2.89; 28000;occ; 76; 0;45859  
 8; 2521.4; 07-DEC-2010 15:56:31; Bright; 43.5; 114; 3Iot Aur ; 2.69; 4600;occ; 87; 0;45859  
 9; 2708.8; 07-DEC-2010 15:59:38; Bright; 36.5; 175; 39Del Per ; 3.01; 19400;occ; 73; 0;45859  
 10; 2858.9; 07-DEC-2010 16:02:08; Bright; 49.0; 42; 34Bet Aur ; 1.90; 10200;occ; 98; 0;45859  
 11; 3765.0; 07-DEC-2010 16:17:15; Bright; 66.0; 36; 50Alp UMa ; 1.80; 6300;occ; 132; 0;45859  
 12; 3857.0; 07-DEC-2010 16:18:46; Bright; 49.5; 82; 48Bet UMa ; 2.37; 10600;occ; 99; 0;45859  
 13; 3983.6; 07-DEC-2010 16:20:53; Bright; 41.5; 32; 77Eps UMa ; 1.76; 11000;occ; 83; 0;45859  
 14; 4120.4; 07-DEC-2010 16:23:10; Bright; 39.5; 39; 85Eta UMa ; 1.85; 24000;occ; 79; 0;45859  
 15; 4330.7; 07-DEC-2010 16:26:40; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;45859  
 16; 4674.2; 07-DEC-2010 16:32:24; Bright; 56.0; 111; 8Eta Boo ; 2.68; 6000;occ; 112; 0;45859  
 17; 4876.5; 07-DEC-2010 16:35:46; Bright; 43.0; 138; 47Eps Vir ; 2.83; 4700;occ; 86; 0;45859  
 18; 5158.1; 07-DEC-2010 16:40:28; Dark ; 53.0; 121; 29Gam Vir ; 2.74; 7200;occ; 106; 0;45859  
 19; 5433.5; 07-DEC-2010 16:45:03; Dark ; 43.0; 169; 46Gam Hya ; 2.99; 4700;occ; 86; 0;45859  
 20; 5519.1; 07-DEC-2010 16:46:29; Dark ; 50.0; 100; 4Gam Crv ; 2.58; 13100;occ; 100; 0;45859  
 21; 5615.4; 07-DEC-2010 16:48:05; Dark ; 52.5; 171; 2Eps Crv ; 3.00; 4250;occ; 105; 0;45859  
 22; 5970.1; 07-DEC-2010 16:54:00; Dark ; 41.0; 99; Del Cen ; 2.58; 26000;occ; 82; 0;45859  
 23; 6173.1; 07-DEC-2010 16:57:23; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45860  
 24; 6498.3; 07-DEC-2010 17:02:48; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45860  
 25; 6691.5; 07-DEC-2010 17:06:01; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45860  
 26; 6859.4; 07-DEC-2010 17:08:49; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;45860  
 27; 6996.5; 07-DEC-2010 17:11:06; Dark ; 56.0; 117; Pi Pup ; 2.71; 3800;occ; 112; 0;45860

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1; 1019.9; 07-DEC-2010 17:11:44; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 75;45860  
 2; 1218.4; 07-DEC-2010 17:15:02; Dark ; 45.0; 108; Alp Col ; 2.65; 15200;occ; 90; 0;45860  
 3; 1537.3; 07-DEC-2010 17:20:21; Dark ; 50.5; 101; 11Alp Lep ; 2.58; 7000;occ; 101; 0;45860  
 4; 1735.9; 07-DEC-2010 17:23:39; Dark ; 55.0; 7; 19Bet Ori ; 0.10; 14000;occ; 110; 0;45860  
 5; 1891.1; 07-DEC-2010 17:26:15; Dark ; 55.5; 30; 46Eps Ori ; 1.69; 30000;occ; 111; 0;45860  
 6; 2042.2; 07-DEC-2010 17:28:46; Dark ; 55.0; 27; 24Gam Ori ; 1.64; 26000;occ; 110; 0;45860  
 7; 2192.5; 07-DEC-2010 17:31:16; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;45860  
 8; 2305.4; 07-DEC-2010 17:33:09; Bright; 38.0; 146; 25Eta Tau ; 2.87; 15200;occ; 76; 0;45860  
 9; 2440.9; 07-DEC-2010 17:35:24; Bright; 37.5; 150; 44Zet Per ; 2.89; 28000;occ; 75; 0;45860  
 10; 2520.9; 07-DEC-2010 17:36:44; Bright; 43.0; 114; 3Iot Aur ; 2.69; 4600;occ; 86; 0;45860  
 11; 2708.7; 07-DEC-2010 17:39:52; Bright; 35.5; 175; 39Del Per ; 3.01; 19400;occ; 71; 0;45860  
 12; 2857.9; 07-DEC-2010 17:42:21; Bright; 47.5; 42; 34Bet Aur ; 1.90; 10200;occ; 95; 0;45860  
 13; 3764.6; 07-DEC-2010 17:57:28; Bright; 45.0; 36; 50Alp UMa ; 1.80; 6300;occ; 90; 0;45860  
 14; 3856.5; 07-DEC-2010 17:59:00; Bright; 48.0; 82; 48Bet UMa ; 2.37; 10600;occ; 96; 0;45860  
 15; 3983.4; 07-DEC-2010 18:01:07; Bright; 42.5; 32; 77Eps UMa ; 1.76; 11000;occ; 85; 0;45860  
 16; 4120.4; 07-DEC-2010 18:03:24; Bright; 40.0; 39; 85Eta UMa ; 1.85; 24000;occ; 80; 0;45860  
 17; 4330.9; 07-DEC-2010 18:06:55; Bright; 40.5; 152; 12Alp2CVn ; 2.89; 11000;occ; 81; 0;45860  
 18; 4674.4; 07-DEC-2010 18:12:38; Bright; 37.5; 111; 8Eta Boo ; 2.68; 6000;occ; 75; 0;45860  
 19; 4876.9; 07-DEC-2010 18:16:01; Bright; 45.5; 138; 47Eps Vir ; 2.83; 4700;occ; 91; 0;45860  
 20; 5159.0; 07-DEC-2010 18:20:43; Dark ; 51.5; 121; 29Gam Vir ; 2.74; 7200;occ; 103; 0;45860  
 21; 5434.0; 07-DEC-2010 18:25:18; Dark ; 43.5; 169; 46Gam Hya ; 2.99; 4700;occ; 87; 0;45860  
 22; 5520.1; 07-DEC-2010 18:26:44; Dark ; 49.0; 100; 4Gam Crv ; 2.58; 13100;occ; 98; 0;45860  
 23; 5616.4; 07-DEC-2010 18:28:20; Dark ; 53.5; 171; 2Eps Crv ; 3.00; 4250;occ; 107; 0;45860  
 24; 5970.6; 07-DEC-2010 18:34:14; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45860  
 25; 6173.8; 07-DEC-2010 18:37:37; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;45861  
 26; 6499.0; 07-DEC-2010 18:43:03; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45861  
 27; 6692.2; 07-DEC-2010 18:46:16; Dark ; 48.5; 34; Gam2Vel ; 1.79; 23000;occ; 97; 0;45861  
 28; 6859.9; 07-DEC-2010 18:49:03; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;45861  
 29; 6997.1; 07-DEC-2010 18:51:21; Dark ; 0.5; 117; Pi Pup ; 2.71; 3800;occ; 1; 0;45861

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1; 983.0; 07-DEC-2010 18:51:21; Dark ; 57.0; 117; Pi Pup ; 2.71; 3800;occ; 114; 0;45861  
 2; 1218.6; 07-DEC-2010 18:55:16; Dark ; 43.5; 108; Alp Col ; 2.65; 15200;occ; 87; 0;45861  
 3; 1537.4; 07-DEC-2010 19:00:35; Dark ; 50.5; 101; 11Alp Lep ; 2.58; 7000;occ; 101; 0;45861  
 4; 1735.8; 07-DEC-2010 19:03:54; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;45861  
 5; 1890.7; 07-DEC-2010 19:06:28; Dark ; 52.0; 30; 46Eps Ori ; 1.69; 30000;occ; 104; 0;45861  
 6; 2041.8; 07-DEC-2010 19:09:00; Dark ; 53.0; 27; 24Gam Ori ; 1.64; 26000;occ; 106; 0;45861  
 7; 2192.4; 07-DEC-2010 19:11:30; Dark ; 58.0; 13; 87Alp Tau ; 0.87; 3800;occ; 116; 0;45861  
 8; 2305.4; 07-DEC-2010 19:13:23; Bright; 37.5; 146; 25Eta Tau ; 2.87; 15200;occ; 75; 0;45861  
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10; 2520.6; 07-DEC-2010 19:16:58; Bright; 45.5; 114; 3Iot Aur ; 2.69; 4600;occ; 91; 0;45861
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14; 3856.2; 07-DEC-2010 19:39:14; Bright; 45.0; 82; 48Bet UMa ; 2.37; 10600;occ; 101; 0;45861
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17; 4330.7; 07-DEC-2010 19:47:08; Bright; 42.0; 152; 12Alp2CVn ; 2.89; 11000;occ; 84; 0;45861
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 2; 1737.0; 14-DEC-2010 11:26:21; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45957  
 3; 1874.8; 14-DEC-2010 11:28:39; Dark ; 51.5; 30; 46Eps Ori ; 1.69; 30000;occ; 103; 0;45957  
 4; 2068.4; 14-DEC-2010 11:31:52; Dark ; 69.0; 14; 58Alp Ori ; 0.87; 3000;occ; 138; 0;45957  
 5; 2178.7; 14-DEC-2010 11:33:43; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45957  
 6; 2319.9; 14-DEC-2010 11:36:04; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;45957  
 7; 2442.1; 14-DEC-2010 11:38:06; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45957  
 8; 2662.6; 14-DEC-2010 11:41:47; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45957  
 9; 2791.2; 14-DEC-2010 11:43:55; Bright; 44.5; 42; 34Bet Aur ; 1.90; 10200;occ; 89; 0;45957  
 10; 3720.4; 14-DEC-2010 11:59:25; Bright; 42.5; 36; 50Alp UMa ; 1.80; 6300;occ; 85; 0;45957  
 11; 3966.6; 14-DEC-2010 12:03:31; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45957  
 12; 4117.9; 14-DEC-2010 12:06:02; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45957  
 13; 4314.8; 14-DEC-2010 12:09:19; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45957  
 14; 4505.1; 14-DEC-2010 12:12:29; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;45957  
 15; 4700.6; 14-DEC-2010 12:15:45; Bright; 48.0; 111; 8Eta Boo ; 2.68; 6000;occ; 96; 0;45957  
 16; 4929.5; 14-DEC-2010 12:19:34; Bright; 72.0; 138; 47Eps Vir ; 2.83; 4700;occ; 144; 0;45957  
 17; 5286.0; 14-DEC-2010 12:25:30; Dark ; 58.5; 15; 67Alp Vir ; 0.98; 28000;occ; 117; 0;45957  
 18; 5495.1; 14-DEC-2010 12:28:59; Dark ; 48.5; 169; 46Gam Hya ; 2.99; 4700;occ; 97; 0;45957  
 19; 5631.1; 14-DEC-2010 12:31:15; Dark ; 43.0; 100; 4Gam Crv ; 2.58; 13100;occ; 86; 0;45957  
 20; 5726.3; 14-DEC-2010 12:32:50; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45957  
 21; 5936.5; 14-DEC-2010 12:36:21; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;45957  
 22; 6032.3; 14-DEC-2010 12:37:56; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45958  
 23; 6257.6; 14-DEC-2010 12:41:42; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45958  
 24; 6490.3; 14-DEC-2010 12:45:34; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45958  
 25; 6575.0; 14-DEC-2010 12:46:59; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45958  
 26; 6766.6; 14-DEC-2010 12:50:11; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;45958  
 27; 6901.5; 14-DEC-2010 12:52:26; Dark ; 49.5; 2; Alp Car ; -0.74; 7000;occ; 99; 0;45958  
 28; 7059.8; 14-DEC-2010 12:55:04; Dark ; 58.0; 117; Pi Pup ; 2.71; 3800;occ; 116; 0;45958  
 29; 7257.2; 14-DEC-2010 12:58:21; Dark ; 56.0; 23; 21Eps CMa ; 1.50; 26000;occ; 112; 0;45958  
 30; 7536.2; 14-DEC-2010 13:03:00; Dark ; 54.0; 47; 2Bet CMa ; 1.98; 28000;occ; 108; 0;45958

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1; 1737.2; 14-DEC-2010 13:06:35; Dark ; 54.0; 7; 19Bet Ori ; 0.10; 14000;occ; 108; 0;45958  
 2; 1874.7; 14-DEC-2010 13:08:53; Dark ; 51.0; 30; 46Eps Ori ; 1.69; 30000;occ; 102; 0;45958  
 3; 2068.0; 14-DEC-2010 13:12:06; Dark ; 63.5; 14; 58Alp Ori ; 0.87; 3000;occ; 127; 0;45958  
 4; 2178.6; 14-DEC-2010 13:13:57; Dark ; 55.0; 13; 87Alp Tau ; 0.87; 3800;occ; 110; 0;45958  
 5; 2319.2; 14-DEC-2010 13:16:17; Bright; 45.5; 176; 23Zet Tau ; 3.02; 22000;occ; 91; 0;45958  
 6; 2441.7; 14-DEC-2010 13:18:20; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45958  
 7; 2661.9; 14-DEC-2010 13:22:00; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45958  
 8; 2790.7; 14-DEC-2010 13:24:09; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45958  
 9; 3720.1; 14-DEC-2010 13:29:38; Bright; 46.5; 36; 50Alp UMa ; 1.80; 6300;occ; 93; 0;45958  
 10; 3966.4; 14-DEC-2010 13:43:44; Bright; 43.0; 32; 77Eps UMa ; 1.76; 11000;occ; 86; 0;45958  
 11; 4117.8; 14-DEC-2010 13:46:16; Bright; 41.0; 39; 85Eta UMa ; 1.85; 24000;occ; 82; 0;45958  
 12; 4315.0; 14-DEC-2010 13:49:33; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45958  
 13; 4505.4; 14-DEC-2010 13:52:43; Bright; 35.5; 83; ; 2.38; 11000;occ; 71; 0;45958  
 14; 4701.1; 14-DEC-2010 13:55:59; Bright; 41.0; 111; 8Eta Boo ; 2.68; 6000;occ; 82; 0;45958

15; 4930.1; 14-DEC-2010 13:59:48; Bright; 72.0; 138; 47Eps Vir ; 2.83; 4700;occ; 144; 0;45958  
 16; 5286.7; 14-DEC-2010 14:05:45; Dark ; 51.5; 15; 67Alp Vir ; 0.98; 28000;occ; 103; 0;45958  
 17; 5495.8; 14-DEC-2010 14:09:14; Dark ; 49.0; 169; 46Gam Hya ; 2.99; 4700;occ; 98; 0;45958  
 18; 5632.2; 14-DEC-2010 14:11:30; Dark ; 36.0; 100; 4Gam Crv ; 2.58; 13100;occ; 72; 0;45958  
 19; 5727.5; 14-DEC-2010 14:13:06; Dark ; 59.5; 171; 2Eps Crv ; 3.00; 4250;occ; 119; 0;45958  
 20; 5937.1; 14-DEC-2010 14:16:35; Dark ; 41.5; 64; Gam Cen ; 2.20; 10600;occ; 83; 0;45958  
 21; 6033.1; 14-DEC-2010 14:18:11; Dark ; 40.5; 99; Del Cen ; 2.58; 26000;occ; 81; 0;45959  
 22; 6258.7; 14-DEC-2010 14:21:57; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45959  
 23; 6491.1; 14-DEC-2010 14:25:49; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;45959  
 24; 6575.9; 14-DEC-2010 14:27:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45959  
 25; 6767.4; 14-DEC-2010 14:30:25; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;45959  
 26; 6901.9; 14-DEC-2010 14:32:40; Dark ; 53.0; 2; Alp Car ; -0.74; 7000;occ; 106; 0;45959  
 27; 7060.3; 14-DEC-2010 14:35:18; Dark ; 56.5; 117; Pi Pup ; 2.71; 3800;occ; 113; 0;45959  
 28; 7257.7; 14-DEC-2010 14:38:36; Dark ; 54.0; 23; 21Eps CMA ; 1.50; 26000;occ; 108; 0;45959

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1; -681.2; 15-DEC-2010 00:07:55; Dark ; 50.5; 15; 67Alp Vir ; 0.98; 28000;occ; 101; 84;45964  
 2; -514.0; 15-DEC-2010 00:10:42; Dark ; 44.5; 169; 46Gam Hya ; 2.99; 4700;occ; 89; 0;45964  
 3; -370.3; 15-DEC-2010 00:13:06; Dark ; 55.0; 106; 9Bet Crv ; 2.65; 5600;occ; 110; 0;45964  
 4; -73.4; 15-DEC-2010 00:18:03; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;45964  
 5; 23.0; 15-DEC-2010 00:19:39; Dark ; 43.5; 99; Del Cen ; 2.58; 26000;occ; 87; 0;45965  
 6; 249.8; 15-DEC-2010 00:23:26; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45965  
 7; 480.5; 15-DEC-2010 00:27:17; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45965  
 8; 566.4; 15-DEC-2010 00:28:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45965  
 9; 757.7; 15-DEC-2010 00:31:54; Dark ; 50.5; 34; Gam2Vel ; 1.79; 23000;occ; 101; 0;45965  
 10; 890.1; 15-DEC-2010 00:34:06; Dark ; 51.5; 2; Alp Car ; -0.74; 7000;occ; 103; 0;45965  
 11; 1049.7; 15-DEC-2010 00:36:46; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45965  
 12; 1246.2; 15-DEC-2010 00:40:02; Dark ; 58.5; 23; 21Eps CMA ; 1.50; 26000;occ; 117; 0;45965  
 13; 1523.2; 15-DEC-2010 00:44:39; Dark ; 54.0; 47; 2Bet CMA ; 1.98; 28000;occ; 108; 0;45965  
 14; 1737.2; 15-DEC-2010 00:48:13; Dark ; 51.5; 7; 19Bet Ori ; 0.10; 14000;occ; 103; 0;45965  
 15; 1873.6; 15-DEC-2010 00:50:30; Dark ; 48.5; 30; 46Eps Ori ; 1.69; 30000;occ; 97; 0;45965  
 16; 2065.4; 15-DEC-2010 00:53:42; Dark ; 62.5; 14; 58Alp Ori ; 0.87; 3000;occ; 125; 0;45965  
 17; 2177.9; 15-DEC-2010 00:55:34; Dark ; 47.5; 13; 87Alp Tau ; 0.87; 3800;occ; 95; 0;45965  
 18; 2315.9; 15-DEC-2010 00:57:52; Bright; 44.0; 176; 23Zet Tau ; 3.02; 22000;occ; 88; 0;45965  
 19; 2438.8; 15-DEC-2010 00:59:55; Bright; 44.0; 28; 12Bet Tau ; 1.65; 15200;occ; 88; 0;45965  
 20; 2657.2; 15-DEC-2010 01:03:34; Bright; 44.5; 107; 37The Aur ; 2.65; 11000;occ; 89; 0;45965  
 21; 2786.4; 15-DEC-2010 01:05:43; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45965  
 22; 3686.1; 15-DEC-2010 01:20:42; Bright; 36.5; 60; 7Bet UMi ; 2.08; 3950;occ; 73; 0;45965  
 23; 3964.9; 15-DEC-2010 01:25:21; Bright; 62.0; 32; 77Eps UMa ; 1.76; 11000;occ; 124; 0;45965  
 24; 4117.3; 15-DEC-2010 01:27:54; Bright; 58.0; 39; 85Eta UMa ; 1.85; 24000;occ; 116; 0;45965  
 25; 4315.6; 15-DEC-2010 01:31:12; Bright; 35.0; 180; 27Gam Boo ; 3.04; 8000;occ; 70; 0;45965  
 26; 4506.5; 15-DEC-2010 01:34:23; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45965  
 27; 4703.0; 15-DEC-2010 01:37:39; Bright; 40.0; 111; 8Eta Boo ; 2.68; 6000;occ; 80; 0;45965  
 28; 4934.7; 15-DEC-2010 01:41:31; Bright; 48.5; 138; 47Eps Vir ; 2.83; 4700;occ; 97; 0;45965

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1; -722.4; 15-DEC-2010 01:47:28; Dark ; 53.5; 15; 67Alp Vir ; 0.98; 28000;occ; 107; 0;45965  
 2; -369.0; 15-DEC-2010 01:53:21; Dark ; 51.5; 106; 9Bet Crv ; 2.65; 5600;occ; 103; 0;45965  
 3; -277.5; 15-DEC-2010 01:54:53; Dark ; 57.5; 171; 2Eps Crv ; 3.00; 4250;occ; 115; 0;45965  
 4; -72.7; 15-DEC-2010 01:58:18; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45965  
 5; 23.9; 15-DEC-2010 01:59:54; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45966  
 6; 250.7; 15-DEC-2010 02:03:41; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45966  
 7; 481.2; 15-DEC-2010 02:07:31; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45966  
 8; 567.2; 15-DEC-2010 02:08:57; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45966  
 9; 758.4; 15-DEC-2010 02:12:09; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;45966  
 10; 890.5; 15-DEC-2010 02:14:21; Dark ; 40.0; 2; Alp Car ; -0.74; 7000;occ; 80; 0;45966  
 11; 1050.4; 15-DEC-2010 02:17:01; Dark ; 53.0; 117; Pi Pup ; 2.71; 3800;occ; 106; 0;45966  
 12; 1246.7; 15-DEC-2010 02:20:17; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;45966  
 13; 1523.4; 15-DEC-2010 02:24:54; Dark ; 56.0; 47; 2Bet CMA ; 1.98; 28000;occ; 112; 0;45966  
 14; 1737.3; 15-DEC-2010 02:28:28; Dark ; 52.5; 7; 19Bet Ori ; 0.10; 14000;occ; 105; 0;45966  
 15; 1873.6; 15-DEC-2010 02:30:44; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45966  
 16; 2065.0; 15-DEC-2010 02:33:55; Dark ; 67.0; 14; 58Alp Ori ; 0.87; 3000;occ; 134; 0;45966  
 17; 2177.9; 15-DEC-2010 02:35:48; Dark ; 50.5; 13; 87Alp Tau ; 0.87; 3800;occ; 101; 0;45966  
 18; 2315.7; 15-DEC-2010 02:38:06; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45966  
 19; 2438.3; 15-DEC-2010 02:40:09; Bright; 43.5; 28; 12Bet Tau ; 1.65; 15200;occ; 87; 0;45966  
 20; 2656.6; 15-DEC-2010 02:43:47; Bright; 44.0; 107; 37The Aur ; 2.65; 11000;occ; 88; 0;45966  
 21; 2786.1; 15-DEC-2010 02:45:56; Bright; 43.5; 42; 34Bet Aur ; 1.90; 10200;occ; 87; 0;45966

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1; -2327.9; 15-DEC-2010 03:00:56; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;45966  
 2; -2049.4; 15-DEC-2010 03:05:35; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;45966



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3;-1896.7; 15-DEC-2010 03:08:08; Bright; 42.5; 39; 85Eta UMa ; 1.85; 24000;occ; 85; 0;45966
4;-1698.3; 15-DEC-2010 03:11:26; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;45966
5;-1507.2; 15-DEC-2010 03:14:37; Bright; 46.0; 83; ; 2.38; 11000;occ; 92; 0;45966
6;-1310.7; 15-DEC-2010 03:17:54; Bright; 50.5; 111; 8Eta Boo ; 2.68; 6000;occ; 101; 0;45966
7;-1078.7; 15-DEC-2010 03:21:46; Bright; 73.0; 138; 47Eps Vir ; 2.83; 4700;occ; 146; 0;45966
8; -721.8; 15-DEC-2010 03:27:43; Dark ; 55.5; 15; 67Alp Vir ; 0.98; 28000;occ; 111; 0;45966
9; -512.4; 15-DEC-2010 03:31:12; Dark ; 45.5; 169; 46Gam Hya ; 2.99; 4700;occ; 91; 0;45966
10; -368.0; 15-DEC-2010 03:33:36; Dark ; 52.5; 106; 9Bet Crv ; 2.65; 5600;occ; 105; 0;45966
11; -72.0; 15-DEC-2010 03:38:32; Dark ; 40.5; 64; Gam Cen ; 2.20; 10600;occ; 81; 0;45966
12; 24.7; 15-DEC-2010 03:40:09; Dark ; 40.0; 99; Del Cen ; 2.58; 26000;occ; 80; 0;45967
13; 251.7; 15-DEC-2010 03:43:56; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;45967
14; 481.9; 15-DEC-2010 03:47:46; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;45967
15; 567.9; 15-DEC-2010 03:49:12; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45967
16; 759.1; 15-DEC-2010 03:52:23; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45967
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18; 1051.0; 15-DEC-2010 03:57:15; Dark ; 57.5; 117; Pi Pup ; 2.71; 3800;occ; 115; 0;45967
19; 1247.3; 15-DEC-2010 04:00:32; Dark ; 54.5; 23; 21Eps CMa ; 1.50; 26000;occ; 109; 0;45967
20; 1523.6; 15-DEC-2010 04:05:08; Dark ; 50.5; 47; 2Bet CMa ; 1.98; 28000;occ; 101; 0;45967
21; 1737.4; 15-DEC-2010 04:08:42; Dark ; 49.0; 7; 19Bet Ori ; 0.10; 14000;occ; 98; 0;45967
22; 1873.7; 15-DEC-2010 04:10:58; Dark ; 50.5; 30; 46Eps Ori ; 1.69; 30000;occ; 101; 0;45967
23; 2064.9; 15-DEC-2010 04:14:09; Dark ; 64.0; 14; 58Alp Ori ; 0.87; 3000;occ; 128; 0;45967
24; 2178.0; 15-DEC-2010 04:16:02; Dark ; 53.5; 13; 87Alp Tau ; 0.87; 3800;occ; 107; 0;45967
25; 2315.3; 15-DEC-2010 04:18:20; Bright; 46.0; 176; 23Zet Tau ; 3.02; 22000;occ; 92; 0;45967
26; 2438.0; 15-DEC-2010 04:20:22; Bright; 43.0; 28; 12Bet Tau ; 1.65; 15200;occ; 86; 0;45967
27; 2656.2; 15-DEC-2010 04:24:01; Bright; 43.5; 107; 37The Aur ; 2.65; 11000;occ; 87; 0;45967
28; 2785.6; 15-DEC-2010 04:26:10; Bright; 44.0; 42; 34Bet Aur ; 1.90; 10200;occ; 88; 0;45967
/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20101215_044111_000051563097_00263_45967_1892.N1
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3;-1896.8; 15-DEC-2010 04:48:22; Bright; 38.5; 39; 85Eta UMa ; 1.85; 24000;occ; 77; 0;45967
4;-1698.3; 15-DEC-2010 04:51:40; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45967
5;-1507.0; 15-DEC-2010 04:54:51; Bright; 54.0; 83; ; 2.38; 11000;occ; 108; 0;45967
6;-1310.3; 15-DEC-2010 04:58:08; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;45967
7;-1078.1; 15-DEC-2010 05:02:00; Bright; 51.5; 138; 47Eps Vir ; 2.83; 4700;occ; 103; 0;45967
8; -720.9; 15-DEC-2010 05:07:57; Dark ; 53.0; 15; 67Alp Vir ; 0.98; 28000;occ; 106; 0;45967
9; -511.8; 15-DEC-2010 05:11:27; Dark ; 46.5; 169; 46Gam Hya ; 2.99; 4700;occ; 93; 0;45967
10; -367.1; 15-DEC-2010 05:13:51; Dark ; 53.5; 106; 9Bet Crv ; 2.65; 5600;occ; 107; 0;45967
11; -275.1; 15-DEC-2010 05:15:23; Dark ; 55.0; 171; 2Eps Crv ; 3.00; 4250;occ; 110; 0;45967
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13; 25.2; 15-DEC-2010 05:20:24; Dark ; 41.5; 99; Del Cen ; 2.58; 26000;occ; 83; 0;45968
14; 252.4; 15-DEC-2010 05:24:11; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;45968
15; 482.6; 15-DEC-2010 05:28:01; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45968
16; 568.6; 15-DEC-2010 05:29:27; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45968
17; 759.8; 15-DEC-2010 05:32:38; Dark ; 54.5; 34; Gam2Vel ; 1.79; 23000;occ; 109; 0;45968
18; 891.5; 15-DEC-2010 05:34:50; Dark ; 52.0; 2; Alp Car ;-0.74; 7000;occ; 104; 0;45968
19; 1051.5; 15-DEC-2010 05:37:30; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;45968
20; 1247.7; 15-DEC-2010 05:40:46; Dark ; 58.0; 23; 21Eps CMa ; 1.50; 26000;occ; 116; 0;45968
21; 1523.8; 15-DEC-2010 05:45:22; Dark ; 54.5; 47; 2Bet CMa ; 1.98; 28000;occ; 109; 0;45968
22; 1737.5; 15-DEC-2010 05:48:56; Dark ; 56.0; 7; 19Bet Ori ; 0.10; 14000;occ; 112; 0;45968
23; 1873.6; 15-DEC-2010 05:51:12; Dark ; 50.0; 30; 46Eps Ori ; 1.69; 30000;occ; 100; 0;45968
24; 2064.5; 15-DEC-2010 05:54:23; Dark ; 59.5; 14; 58Alp Ori ; 0.87; 3000;occ; 119; 0;45968
25; 2177.9; 15-DEC-2010 05:56:16; Dark ; 48.0; 13; 87Alp Tau ; 0.87; 3800;occ; 96; 0;45968
26; 2314.9; 15-DEC-2010 05:58:33; Bright; 44.5; 176; 23Zet Tau ; 3.02; 22000;occ; 89; 0;45968
27; 2437.6; 15-DEC-2010 06:00:36; Bright; 41.5; 28; 12Bet Tau ; 1.65; 15200;occ; 83; 0;45968
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16; 3959.1; 16-DEC-2010 20:51:20; Bright; 40.5; 32; 77Eps UMa ; 1.76; 11000;occ; 81; 0;45991
17; 4115.8; 16-DEC-2010 20:53:57; Bright; 38.0; 39; 85Eta UMa ; 1.85; 24000;occ; 76; 0;45991
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6; 41.7; 16-DEC-2010 21:26:17; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45992
7; 273.8; 16-DEC-2010 21:30:09; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45992
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12; 1064.8; 16-DEC-2010 21:43:20; Dark ; 55.5; 117; Pi Pup ; 2.71; 3800;occ; 111; 0;45992
13; 1257.7; 16-DEC-2010 21:46:33; Dark ; 53.5; 23; 21Eps CMA ; 1.50; 26000;occ; 107; 0;45992
14; 1363.6; 16-DEC-2010 21:48:19; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45992
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16; 1738.5; 16-DEC-2010 21:54:33; Dark ; 47.0; 7; 19Bet Ori ; 0.10; 14000;occ; 94; 0;45992
17; 1871.0; 16-DEC-2010 21:56:46; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45992
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19; 2176.2; 16-DEC-2010 22:01:51; Dark ; 47.0; 13; 87Alp Tau ; 0.87; 3800;occ; 94; 0;45992
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22; 2640.4; 16-DEC-2010 22:09:35; Bright; 45.0; 107; 37The Aur ; 2.65; 11000;occ; 90; 0;45992
23; 2771.1; 16-DEC-2010 22:11:46; Bright; 43.0; 42; 34Bet Aur ; 1.90; 10200;occ; 86; 0;45992
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25; 3958.8; 16-DEC-2010 22:31:34; Bright; 40.0; 32; 77Eps UMa ; 1.76; 11000;occ; 80; 0;45992
26; 4115.6; 16-DEC-2010 22:34:11; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45992
27; 4317.9; 16-DEC-2010 22:37:33; Bright; 37.5; 180; 27Gam Boo ; 3.04; 8000;occ; 75; 0;45992
28; 4511.2; 16-DEC-2010 22:40:46; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45992
29; 4711.4; 16-DEC-2010 22:44:06; Bright; 61.0; 111; 8Eta Boo ; 2.68; 6000;occ; 122; 0;45992
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4; -56.0; 16-DEC-2010 23:04:53; Dark ; 43.0; 64; Gam Cen ; 2.20; 10600;occ; 86; 0;45992
5; 42.5; 16-DEC-2010 23:06:31; Dark ; 42.0; 99; Del Cen ; 2.58; 26000;occ; 84; 0;45993
6; 274.6; 16-DEC-2010 23:10:24; Dark ; 46.0; 113; Mu Vel ; 2.69; 5000;occ; 92; 0;45993
7; 498.0; 16-DEC-2010 23:14:07; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;45993
8; 587.3; 16-DEC-2010 23:15:36; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;45993
9; 777.5; 16-DEC-2010 23:18:46; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;45993
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13; 1363.9; 16-DEC-2010 23:28:33; Dark ; 34.0; 179; 240mi2CMA ; 3.03; 24000;occ; 68; 0;45993
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15; 1738.4; 16-DEC-2010 23:34:47; Dark ; 47.5; 7; 19Bet Ori ; 0.10; 14000;occ; 95; 0;45993
16; 1871.0; 16-DEC-2010 23:37:00; Dark ; 48.0; 30; 46Eps Ori ; 1.69; 30000;occ; 96; 0;45993
17; 2056.0; 16-DEC-2010 23:40:05; Dark ; 59.0; 14; 58Alp Ori ; 0.87; 3000;occ; 118; 0;45993
18; 2176.2; 16-DEC-2010 23:42:05; Dark ; 46.5; 13; 87Alp Tau ; 0.87; 3800;occ; 93; 0;45993

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 23; 3685.5; 17-DEC-2010 00:07:14; Bright; 33.0; 60; 7Bet UMi ; 2.08; 3950;occ; 66; 0;45993  
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 25; 4115.6; 17-DEC-2010 00:14:25; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;45993  
 26; 4318.0; 17-DEC-2010 00:17:47; Bright; 40.5; 180; 27Gam Boo ; 3.04; 8000;occ; 81; 0;45993  
 27; 4511.4; 17-DEC-2010 00:21:00; Bright; 37.5; 83; ; 2.38; 11000;occ; 75; 0;45993  
 28; 4711.7; 17-DEC-2010 00:24:21; Bright; 40.5; 111; 8Eta Boo ; 2.68; 6000;occ; 81; 0;45993  
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11; 3960.4; 16-DEC-2010 12:30:11; Bright; 43.5; 32; 77Eps UMa ; 1.76; 11000;occ; 87; 0;45986
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14; 4510.3; 16-DEC-2010 12:39:21; Bright; 36.5; 83; ; 2.38; 11000;occ; 73; 0;45986
15; 4709.7; 16-DEC-2010 12:42:41; Bright; 39.5; 111; 8Eta Boo ; 2.68; 6000;occ; 79; 0;45986
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27; 6914.4; 16-DEC-2010 13:19:25; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;45987
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4; 2058.1; 16-DEC-2010 13:38:43; Dark ; 60.5; 14; 58Alp Ori ; 0.87; 3000;occ; 121; 0;45987
5; 2176.7; 16-DEC-2010 13:40:41; Dark ; 44.5; 13; 87Alp Tau ; 0.87; 3800;occ; 89; 0;45987
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23; 6284.3; 16-DEC-2010 14:49:09; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;45988  
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14; 4116.0; 16-DEC-2010 17:33:29; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;45989

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 22; 5768.1; 16-DEC-2010 18:01:01; Dark ; 46.0; 171; 2Eps Crv ; 3.00; 4250;occ; 92; 0;45989  
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 12; 1258.4; 17-DEC-2010 01:07:01; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;45994  
 13; 1364.4; 17-DEC-2010 01:08:47; Dark ; 39.0; 179; 240mi2CMa ; 3.03; 24000;occ; 78; 0;45994  
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13; 4318.7; 17-DEC-2010 13:39:40; Bright; 36.5; 180; 27Gam Boo ; 3.04; 8000;occ; 73; 0;46001  
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13; 4318.9; 17-DEC-2010 15:19:54; Bright; 36.0; 180; 27Gam Boo ; 3.04; 8000;occ; 72; 0;46002  
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23; 4322.7; 21-DEC-2010 01:11:25; Bright; 57.0; 180; 27Gam Boo ; 3.04; 8000;occ; 114; 0;46051
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12; 4321.9; 20-DEC-2010 08:29:04; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;46041  
13; 4520.0; 20-DEC-2010 08:32:22; Bright; 56.0; 83; ; 2.38; 11000;occ; 112; 0;46041  
14; 4728.1; 20-DEC-2010 08:35:50; Bright; 64.0; 111; 8Eta Boo ; 2.68; 6000;occ; 128; 0;46041  
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21; 6542.1; 20-DEC-2010 09:06:04; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46042  
22; 6636.7; 20-DEC-2010 09:07:39; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46042  
23; 6824.6; 20-DEC-2010 09:10:47; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46042  
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26; 7291.5; 20-DEC-2010 09:18:34; Dark ; 51.5; 23; 21Eps CMa ; 1.50; 26000;occ; 103; 0;46042  
27; 7393.7; 20-DEC-2010 09:20:16; Dark ; 49.5; 179; 240mi2CMa ; 3.03; 24000;occ; 99; 0;46042  
28; 7563.8; 20-DEC-2010 09:23:06; Dark ; 67.0; 1; 9Alp CMa ; -1.44; 11000;occ; 134; 0;46042  
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13; 4322.3; 20-DEC-2010 13:29:47; Bright; 38.5; 180; 27Gam Boo ; 3.04; 8000;occ; 77; 0;46044  
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23; 6638.8; 20-DEC-2010 14:08:23; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46045  
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27; 7292.5; 20-DEC-2010 14:19:17; Dark ; 52.5; 23; 21Eps CMa ; 1.50; 26000;occ; 105; 0;46045  
28; 7394.4; 20-DEC-2010 14:20:59; Dark ; 52.5; 179; 240mi2CMa ; 3.03; 24000;occ; 105; 0;46045

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13; 4322.4; 20-DEC-2010 15:10:01; Bright; 37.0; 180; 27Gam Boo ; 3.04; 8000;occ; 74; 0;46045  
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5; 2401.5; 23-DEC-2010 09:27:21; Bright; 41.0; 28; 12Bet Tau ; 1.65; 15200;occ; 82; 0;46085
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 23; 6982.9; 23-DEC-2010 10:43:42; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46086  
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 25; 7307.1; 23-DEC-2010 10:49:07; Dark ; 51.0; 23; 21Eps CMa ; 1.50; 26000;occ; 102; 0;46086  
 26; 7406.2; 23-DEC-2010 10:50:46; Dark ; 47.0; 179; 240mi2CMa ; 3.03; 24000;occ; 94; 0;46086  
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 25; 7126.9; 23-DEC-2010 12:26:20; Dark ; 46.5; 117; Pi Pup ; 2.71; 3800;occ; 93; 0;46087  
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16; 5275.1; 24-DEC-2010 16:19:27; Bright; 37.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 74; 0;46103
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23; 6578.7; 24-DEC-2010 16:41:11; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46104
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3; 1299.4; 24-DEC-2010 18:33:40; Dark ; 53.0; 23; 21Eps Cma ; 1.50; 26000;occ; 106; 0;46105
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5; 1557.4; 24-DEC-2010 18:37:58; Dark ; 58.5; 1; 9Alp Cma ; -1.44; 11000;occ; 117; 0;46105
6; 1746.7; 24-DEC-2010 18:41:07; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;46105
7; 1866.6; 24-DEC-2010 18:43:07; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46105

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| 22;   | 5794.1; | 24-DEC-2010 | 19:48:34; | Dark ;  | 44.0; | 123; | Iot Cen ;   | 2.75;  | 10200;occ; | 88;  | 0; | 46105 |
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| 24;   | 6131.4; | 24-DEC-2010 | 19:54:11; | Dark ;  | 59.5; | 0;   | ;           | 0.00;  | 0;occ;     | 119; | 0; | 46106 |
| 25;   | 6391.1; | 24-DEC-2010 | 19:58:31; | Dark ;  | 50.5; | 113; | Mu Vel ;    | 2.69;  | 5000;occ;  | 101; | 0; | 46106 |
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| 29;   | 6865.0; | 24-DEC-2010 | 20:06:25; | Dark ;  | 46.0; | 34;  | Gam2Vel ;   | 1.79;  | 23000;occ; | 92;  | 0; | 46106 |
| 30;   | 6995.5; | 24-DEC-2010 | 20:08:36; | Dark ;  | 28.0; | 70;  | Zet Pup ;   | 2.25;  | 39000;occ; | 56;  | 0; | 46106 |
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| 23;   | 4104.2; | 25-DEC-2010 | 02:01:20; | Bright; | 43.0; | 39;  | 85Eta UMa ; | 1.85;  | 24000;occ; | 86;  | 0; | 46109 |
| 24;   | 4326.4; | 25-DEC-2010 | 02:05:02; | Bright; | 37.5; | 180; | 27Gam Boo ; | 3.04;  | 8000;occ;  | 75;  | 0; | 46109 |
| 25;   | 4532.3; | 25-DEC-2010 | 02:08:28; | Bright; | 58.0; | 83;  | ;           | 2.38;  | 11000;occ; | 116; | 0; | 46109 |
| 26;   | 4754.1; | 25-DEC-2010 | 02:12:10; | Bright; | 46.5; | 111; | 8Eta Boo ;  | 2.68;  | 6000;occ;  | 93;  | 0; | 46109 |
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| 2;  | -599.4; | 25-DEC-2010 | 02:23:11; | Dark ;  | 53.5; | 15;  | 67Alp Vir ; | 0.98;  | 28000;occ; | 107; | 0; | 46109 |
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27; 7574.4; 26-DEC-2010 10:43:37; Dark ; 52.5; 1; 9Alp CMa ; -1.44; 11000;occ; 105; 0;46129
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 6; 1714.2; 27-DEC-2010 20:10:51; Dark ; 45.0; 56; 53Kap Ori ; 2.07; 30000;occ; 90; 0;46149  
 7; 1866.7; 27-DEC-2010 20:13:24; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46149  
 8; 2024.6; 27-DEC-2010 20:16:02; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;46149  
 9; 2237.9; 27-DEC-2010 20:19:35; Dark ; 58.5; 44; 24Gam Gem ; 1.93; 11000;occ; 117; 0;46149  
 10; 2333.9; 27-DEC-2010 20:21:11; Bright; 49.0; 151; 13Mu Gem ; 2.89; 3000;occ; 98; 0;46149  
 11; 2458.4; 27-DEC-2010 20:23:16; Bright; 38.5; 114; 3Iot Aur ; 2.69; 4600;occ; 77; 0;46149  
 12; 2569.1; 27-DEC-2010 20:25:06; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46149  
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 15; 3912.9; 27-DEC-2010 20:47:30; Bright; 67.0; 32; 77Eps UMa ; 1.76; 11000;occ; 134; 0;46149  
 16; 4098.0; 27-DEC-2010 20:50:35; Bright; 43.0; 39; 85Eta UMa ; 1.85; 24000;occ; 86; 0;46149  
 17; 4328.6; 27-DEC-2010 20:54:26; Bright; 60.0; 180; 27Gam Boo ; 3.04; 8000;occ; 120; 0;46149  
 18; 4539.8; 27-DEC-2010 20:57:57; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46149  
 19; 4771.3; 27-DEC-2010 21:01:48; Bright; 71.5; 111; 8Eta Boo ; 2.68; 6000;occ; 143; 0;46149

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 22; 2568.7; 27-DEC-2010 22:05:20; Bright; 40.5; 107; 37The Aur ; 2.65; 11000;occ; 81; 0;46150  
 23; 2683.9; 27-DEC-2010 22:07:15; Bright; 41.5; 6; 13Alp Aur ; 0.08; 3400;occ; 83; 0;46150  
 24; 3612.6; 27-DEC-2010 22:22:44; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;46150  
 25; 3912.6; 27-DEC-2010 22:27:44; Bright; 58.5; 32; 77Eps UMa ; 1.76; 11000;occ; 117; 0;46150  
 26; 4097.7; 27-DEC-2010 22:30:49; Bright; 64.0; 39; 85Eta UMa ; 1.85; 24000;occ; 128; 0;46150  
 27; 4328.5; 27-DEC-2010 22:34:40; Bright; 60.0; 180; 27Gam Boo ; 3.04; 8000;occ; 120; 0;46150  
 28; 4540.1; 27-DEC-2010 22:38:11; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46150  
 29; 4771.7; 27-DEC-2010 22:42:03; Bright; 71.5; 111; 8Eta Boo ; 2.68; 6000;occ; 143; 0;46150

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 7; 591.4; 27-DEC-2010 23:12:37; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46151  
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 13; 1409.0; 27-DEC-2010 23:26:14; Dark ; 47.5; 179; 240mi2CMA ; 3.03; 24000;occ; 95; 0;46151  
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 16; 1866.8; 27-DEC-2010 23:33:52; Dark ; 46.0; 30; 46Eps Ori ; 1.69; 30000;occ; 92; 0;46151  
 17; 2024.4; 27-DEC-2010 23:36:29; Dark ; 58.0; 14; 58Alp Ori ; 0.87; 3000;occ; 116; 0;46151  
 18; 2236.8; 27-DEC-2010 23:40:02; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;46151  
 19; 2333.0; 27-DEC-2010 23:41:38; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;46151  
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 22; 2683.7; 27-DEC-2010 23:47:29; Bright; 40.0; 6; 13Alp Aur ; 0.08; 3400;occ; 80; 0;46151  
 23; 3611.9; 28-DEC-2010 00:02:57; Bright; 44.0; 36; 50Alp UMa ; 1.80; 6300;occ; 88; 0;46151  
 24; 3912.3; 28-DEC-2010 00:07:57; Bright; 45.5; 32; 77Eps UMa ; 1.76; 11000;occ; 91; 0;46151  
 25; 4097.5; 28-DEC-2010 00:11:03; Bright; 64.0; 39; 85Eta UMa ; 1.85; 24000;occ; 128; 0;46151  
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 27; 4540.2; 28-DEC-2010 00:18:25; Bright; 59.0; 83; ; 2.38; 11000;occ; 118; 0;46151  
 28; 4772.1; 28-DEC-2010 00:22:17; Bright; 72.0; 111; 8Eta Boo ; 2.68; 6000;occ; 144; 0;46151  
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 16; 1002.8; 27-DEC-2010 08:17:22; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46142  
 17; 1136.9; 27-DEC-2010 08:19:36; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46142  
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23; 6702.0; 27-DEC-2010 09:52:21; Dark ; 47.0; 41; Eps Car ; 1.86; 4100;occ; 94; 0;46143
24; 6886.4; 27-DEC-2010 09:55:25; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46143
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27; 7325.5; 27-DEC-2010 10:02:45; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;46143
28; 7421.2; 27-DEC-2010 10:04:20; Dark ; 47.5; 179; 240mi2CMa ; 3.03; 24000;occ; 95; 0;46143
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22; 6702.3; 27-DEC-2010 11:32:35; Dark ; 51.0; 41; Eps Car ; 1.86; 4100;occ; 102; 0;46144
23; 6886.8; 27-DEC-2010 11:35:40; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46144
24; 7017.9; 27-DEC-2010 11:37:51; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46144
25; 7151.8; 27-DEC-2010 11:40:05; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;46144
26; 7325.8; 27-DEC-2010 11:42:59; Dark ; 47.0; 23; 21Eps CMa ; 1.50; 26000;occ; 94; 0;46144
27; 7421.5; 27-DEC-2010 11:44:34; Dark ; 46.5; 179; 240mi2CMa ; 3.03; 24000;occ; 93; 0;46144
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 25; 6710.5; 28-DEC-2010 15:56:42; Dark ; 45.5; 41; Eps Car ; 1.86; 4100;occ; 91; 0;46161  
 26; 6896.6; 28-DEC-2010 15:59:48; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;46161  
 27; 7027.4; 28-DEC-2010 16:01:59; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46161  
 28; 7158.9; 28-DEC-2010 16:04:10; Dark ; 52.0; 117; Pi Pup ; 2.71; 3800;occ; 104; 0;46161  
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 14; 3908.7; 28-DEC-2010 16:50:14; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;46161  
 15; 4096.1; 28-DEC-2010 16:53:21; Bright; 42.0; 39; 85Eta UMa ; 1.85; 24000;occ; 84; 0;46161  
 16; 4329.4; 28-DEC-2010 16:57:15; Bright; 38.0; 180; 27Gam Boo ; 3.04; 8000;occ; 76; 0;46161  
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 25; 6441.7; 28-DEC-2010 17:32:27; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46162  
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13; 3605.2; 28-DEC-2010 18:25:25; Bright; 38.0; 36; 50Alp UMa ; 1.80; 6300;occ; 76; 0;46162
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5; 1564.4; 28-DEC-2010 19:31:38; Dark ; 61.0; 1; 9Alp CMa ; -1.44; 11000;occ; 122; 0;46163
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 25; 6919.6; 31-DEC-2010 15:50:14; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;46204  
 26; 7050.5; 31-DEC-2010 15:52:25; Dark ; 46.0; 70; Zet Pup ; 2.25; 39000;occ; 92; 0;46204  
 27; 7175.5; 31-DEC-2010 15:54:30; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46204  
 28; 7343.4; 31-DEC-2010 15:57:18; Dark ; 50.0; 23; 21Eps CMA ; 1.50; 26000;occ; 100; 0;46204

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1; 1358.8; 31-DEC-2010 15:57:47; Dark ; 50.5; 23; 21Eps CMA ; 1.50; 26000;occ; 101; 59;46204  
 2; 1421.5; 31-DEC-2010 15:58:50; Dark ; 46.0; 179; 240mi2CMA ; 3.03; 24000;occ; 92; 0;46204  
 3; 1569.7; 31-DEC-2010 16:01:18; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;46204  
 4; 1719.3; 31-DEC-2010 16:03:47; Dark ; 43.0; 56; 53Kap Ori ; 2.07; 30000;occ; 86; 0;46204  
 5; 1869.2; 31-DEC-2010 16:06:17; Dark ; 43.0; 30; 46Eps Ori ; 1.69; 30000;occ; 86; 0;46204  
 6; 2020.3; 31-DEC-2010 16:08:48; Dark ; 55.5; 14; 58Alp Ori ; 0.87; 3000;occ; 111; 0;46204  
 7; 2216.4; 31-DEC-2010 16:12:05; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;46204  
 8; 2314.3; 31-DEC-2010 16:13:42; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;46204  
 9; 2553.2; 31-DEC-2010 16:17:41; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46204  
 10; 2677.9; 31-DEC-2010 16:19:46; Bright; 42.0; 6; 13Alp Aur ; 0.08; 3400;occ; 84; 0;46204  
 11; 3672.5; 31-DEC-2010 16:36:21; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46204  
 12; 3892.1; 31-DEC-2010 16:40:00; Bright; 48.0; 32; 77Eps UMa ; 1.76; 11000;occ; 96; 0;46204  
 13; 4088.1; 31-DEC-2010 16:43:16; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46204  
 14; 4330.9; 31-DEC-2010 16:47:19; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;46204  
 15; 4550.9; 31-DEC-2010 16:50:59; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46204  
 16; 4745.4; 31-DEC-2010 16:54:14; Bright; 53.0; 3; 16Alp Boo ; -0.05; 4250;occ; 106; 0;46204  
 17; 5168.7; 31-DEC-2010 17:01:17; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46204  
 18; 5326.8; 31-DEC-2010 17:03:55; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;46204  
 19; 5738.3; 31-DEC-2010 17:10:47; Dark ; 52.5; 54; 5The Cen ; 2.06; 4500;occ; 105; 0;46204  
 20; 5903.9; 31-DEC-2010 17:13:32; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46204  
 21; 6112.2; 31-DEC-2010 17:17:00; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46205  
 22; 6221.0; 31-DEC-2010 17:18:49; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46205  
 23; 6480.3; 31-DEC-2010 17:23:08; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46205  
 24; 6635.5; 31-DEC-2010 17:25:44; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46205  
 25; 6730.5; 31-DEC-2010 17:27:19; Dark ; 50.5; 41; Eps Car ; 1.86; 4100;occ; 101; 0;46205  
 26; 6920.1; 31-DEC-2010 17:30:28; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46205  
 27; 7051.0; 31-DEC-2010 17:32:39; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;46205  
 28; 7175.8; 31-DEC-2010 17:34:44; Dark ; 30.5; 117; Pi Pup ; 2.71; 3800;occ; 61; 0;46205

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1; 1161.7; 31-DEC-2010 17:34:44; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46205  
 2; 1329.5; 31-DEC-2010 17:37:32; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46205  
 3; 1422.0; 31-DEC-2010 17:39:04; Dark ; 44.0; 179; 240mi2CMA ; 3.03; 24000;occ; 88; 0;46205  
 4; 1569.7; 31-DEC-2010 17:41:32; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;46205  
 5; 1719.3; 31-DEC-2010 17:44:02; Dark ; 41.0; 56; 53Kap Ori ; 2.07; 30000;occ; 82; 0;46205  
 6; 1869.3; 31-DEC-2010 17:46:32; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;46205  
 7; 2020.2; 31-DEC-2010 17:49:03; Dark ; 56.0; 14; 58Alp Ori ; 0.87; 3000;occ; 112; 0;46205  
 8; 2216.0; 31-DEC-2010 17:52:18; Dark ; 57.5; 44; 24Gam Gem ; 1.93; 11000;occ; 115; 0;46205  
 9; 2313.9; 31-DEC-2010 17:53:56; Bright; 57.0; 151; 13Mu Gem ; 2.89; 3000;occ; 114; 0;46205  
 10; 2552.9; 31-DEC-2010 17:57:55; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46205  
 11; 2677.8; 31-DEC-2010 18:00:00; Bright; 39.5; 6; 13Alp Aur ; 0.08; 3400;occ; 79; 0;46205  
 12; 3672.4; 31-DEC-2010 18:16:35; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46205  
 13; 3891.6; 31-DEC-2010 18:20:14; Bright; 44.0; 32; 77Eps UMa ; 1.76; 11000;occ; 88; 0;46205  
 14; 4087.9; 31-DEC-2010 18:23:30; Bright; 46.5; 39; 85Eta UMa ; 1.85; 24000;occ; 93; 0;46205  
 15; 4330.8; 31-DEC-2010 18:27:33; Bright; 41.5; 180; 27Gam Boo ; 3.04; 8000;occ; 83; 0;46205  
 16; 4551.1; 31-DEC-2010 18:31:13; Bright; 62.0; 83; ; 2.38; 11000;occ; 124; 0;46205  
 17; 4745.8; 31-DEC-2010 18:34:28; Bright; 52.5; 3; 16Alp Boo ; -0.05; 4250;occ; 105; 0;46205  
 18; 5169.1; 31-DEC-2010 18:41:31; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;46205  
 19; 5327.2; 31-DEC-2010 18:44:10; Dark ; 45.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 90; 0;46205  
 20; 5739.0; 31-DEC-2010 18:51:01; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46205  
 21; 5904.5; 31-DEC-2010 18:53:47; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46205  
 22; 6112.9; 31-DEC-2010 18:57:15; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46206  
 23; 6221.9; 31-DEC-2010 18:59:04; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46206  
 24; 6481.2; 31-DEC-2010 19:03:24; Dark ; 52.0; 113; Mu Vel ; 2.69; 5000;occ; 104; 0;46206  
 25; 6636.0; 31-DEC-2010 19:05:58; Dark ; 46.5; 71; Iot Car ; 2.25; 7700;occ; 93; 0;46206  
 26; 6749.9; 31-DEC-2010 19:07:52; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;46206  
 27; 6920.5; 31-DEC-2010 19:10:43; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46206  
 28; 7051.4; 31-DEC-2010 19:12:54; Dark ; 22.5; 70; Zet Pup ; 2.25; 39000;occ; 45; 0;46206

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|     |         |             |           |         |   |       |      |           |   |        |            |      |    |       |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|--------|------------|------|----|-------|
| 1;  | 1037.3; | 31-DEC-2010 | 19:12:54; | Dark    | ; | 49.0; | 70;  | Zet Pup   | ; | 2.25;  | 39000;occ; | 98;  | 0; | 46206 |
| 2;  | 1162.1; | 31-DEC-2010 | 19:14:59; | Dark    | ; | 47.0; | 117; | Pi Pup    | ; | 2.71;  | 3800;occ;  | 94;  | 0; | 46206 |
| 3;  | 1329.8; | 31-DEC-2010 | 19:17:46; | Dark    | ; | 44.0; | 23;  | 21Eps CMa | ; | 1.50;  | 26000;occ; | 88;  | 0; | 46206 |
| 4;  | 1422.0; | 31-DEC-2010 | 19:19:18; | Dark    | ; | 42.5; | 179; | 24Omi2CMa | ; | 3.03;  | 24000;occ; | 85;  | 0; | 46206 |
| 5;  | 1569.9; | 31-DEC-2010 | 19:21:46; | Dark    | ; | 48.0; | 1;   | 9Alp CMa  | ; | -1.44; | 11000;occ; | 96;  | 0; | 46206 |
| 6;  | 1719.2; | 31-DEC-2010 | 19:24:16; | Dark    | ; | 42.0; | 56;  | 53Kap Ori | ; | 2.07;  | 30000;occ; | 84;  | 0; | 46206 |
| 7;  | 1869.3; | 31-DEC-2010 | 19:26:46; | Dark    | ; | 44.5; | 30;  | 46Eps Ori | ; | 1.69;  | 30000;occ; | 89;  | 0; | 46206 |
| 8;  | 2020.2; | 31-DEC-2010 | 19:29:17; | Dark    | ; | 55.0; | 14;  | 58Alp Ori | ; | 0.87;  | 3000;occ;  | 110; | 0; | 46206 |
| 9;  | 2215.8; | 31-DEC-2010 | 19:32:32; | Dark    | ; | 57.0; | 44;  | 24Gam Gem | ; | 1.93;  | 11000;occ; | 114; | 0; | 46206 |
| 10; | 2313.6; | 31-DEC-2010 | 19:34:10; | Bright; | ; | 47.5; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;occ;  | 95;  | 0; | 46206 |
| 11; | 2552.7; | 31-DEC-2010 | 19:38:09; | Bright; | ; | 39.0; | 107; | 37The Aur | ; | 2.65;  | 11000;occ; | 78;  | 0; | 46206 |
| 12; | 2677.7; | 31-DEC-2010 | 19:40:14; | Bright; | ; | 41.0; | 6;   | 13Alp Aur | ; | 0.08;  | 3400;occ;  | 82;  | 0; | 46206 |
| 13; | 3672.2; | 31-DEC-2010 | 19:56:49; | Bright; | ; | 35.0; | 60;  | 7Bet UMi  | ; | 2.08;  | 3950;occ;  | 70;  | 0; | 46206 |
| 14; | 3891.1; | 31-DEC-2010 | 20:00:28; | Bright; | ; | 49.5; | 32;  | 77Eps UMa | ; | 1.76;  | 11000;occ; | 99;  | 0; | 46206 |
| 15; | 4087.7; | 31-DEC-2010 | 20:03:44; | Bright; | ; | 66.0; | 39;  | 85Eta UMa | ; | 1.85;  | 24000;occ; | 132; | 0; | 46206 |
| 16; | 4330.9; | 31-DEC-2010 | 20:07:47; | Bright; | ; | 62.0; | 180; | 27Gam Boo | ; | 3.04;  | 8000;occ;  | 124; | 0; | 46206 |
| 17; | 4551.4; | 31-DEC-2010 | 20:11:28; | Bright; | ; | 62.0; | 83;  |           | ; | 2.38;  | 11000;occ; | 124; | 0; | 46206 |
| 18; | 4746.2; | 31-DEC-2010 | 20:14:43; | Bright; | ; | 53.5; | 3;   | 16Alp Boo | ; | -0.05; | 4250;occ;  | 107; | 0; | 46206 |
| 19; | 5169.6; | 31-DEC-2010 | 20:21:46; | Bright; | ; | 56.0; | 104; | 27Bet Lib | ; | 2.61;  | 13100;occ; | 112; | 0; | 46206 |
| 20; | 5327.7; | 31-DEC-2010 | 20:24:24; | Dark    | ; | 45.5; | 122; | 9Alp2Lib  | ; | 2.75;  | 9700;occ;  | 91;  | 0; | 46206 |
| 21; | 5739.5; | 31-DEC-2010 | 20:31:16; | Dark    | ; | 48.5; | 54;  | 5The Cen  | ; | 2.06;  | 4500;occ;  | 97;  | 0; | 46206 |
| 22; | 5904.9; | 31-DEC-2010 | 20:34:01; | Dark    | ; | 42.0; | 95;  | Zet Cen   | ; | 2.55;  | 26000;occ; | 84;  | 0; | 46206 |
| 23; | 6113.8; | 31-DEC-2010 | 20:37:30; | Dark    | ; | 44.5; | 64;  | Gam Cen   | ; | 2.20;  | 10600;occ; | 89;  | 0; | 46207 |
| 24; | 6222.7; | 31-DEC-2010 | 20:39:19; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 46207 |
| 25; | 6482.0; | 31-DEC-2010 | 20:43:38; | Dark    | ; | 46.5; | 113; | Mu Vel    | ; | 2.69;  | 5000;occ;  | 93;  | 0; | 46207 |
| 26; | 6636.4; | 31-DEC-2010 | 20:46:13; | Dark    | ; | 45.0; | 71;  | Iot Car   | ; | 2.25;  | 7700;occ;  | 90;  | 0; | 46207 |
| 27; | 6750.2; | 31-DEC-2010 | 20:48:07; | Dark    | ; | 42.5; | 46;  | Del Vel   | ; | 1.95;  | 10600;occ; | 85;  | 0; | 46207 |
| 28; | 6921.0; | 31-DEC-2010 | 20:50:57; | Dark    | ; | 48.0; | 34;  | Gam2Vel   | ; | 1.79;  | 23000;occ; | 96;  | 0; | 46207 |
| 29; | 7051.8; | 31-DEC-2010 | 20:53:08; | Dark    | ; | 23.5; | 70;  | Zet Pup   | ; | 2.25;  | 39000;occ; | 47;  | 0; | 46207 |