

# GOMOS Daily Report 20-JAN-2011

## Level 0 and Level 1 products

### SUMMARY

#### [1. General Info](#)

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

[2.1 Level 0: products arrived in PCF during current month \(see template here\)](#)

[2.2 Level 0: plot of mission plan versus production during reporting period](#)

[2.3 Level 0: summary of missing occultations with respect to the plan](#)

[2.4 Level 1: products arrived in PCF during reporting period](#)

#### [3. Plot of Spectrometers and Photometers temperatures](#)

#### [4. Dark Charge monitoring](#)

[4.1 Products that did not use the Dark Sky Area observation for DC computation](#)

[4.2 Plot of Dark Charge](#)

#### [5. Demodulation correction and quality product information monitoring](#)

[5.1 Percentage of products with some flags set](#)

[5.2 Plot of quality information per product \(time dependant\)](#)

[5.3 Plot of quality information per product \(world map\)](#)

#### [6. Star tangent altitude lost](#)

[6.1 Statistics on star tangent altitude lost](#)

[6.2 Plot of star tangent altitude lost: DARK products](#)

[6.3 Plot of star tangent altitude lost: BRIGHT products](#)

[6.3 Plot of star tangent altitude lost: TWILIGHT products](#)

#### [7. Star Acquisition and Tracking Unit \(SATU\)](#)

[7.1 SATU plots \(dark limb\): 'X' and 'Y' axis](#)

[7.2 SATU Noise Equivalent Angle statistics](#)

[7.2.1 SATU NEA Statistics \(table\)](#)

[7.2.2 Daily SATU NEA STD \(dark limb\) - trend since 1st April 2006](#)

[8. Auxiliary Data Files used for the production reported in section 2.4](#)

## [Level 2 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 | 23JAN2011 07:05:53 |
| Data source version       | GOMOS/5.01         |
| Start time of products    | 20JAN2011 00:01:40 |
| Stop time of products     | 20JAN2011 23:56:29 |
| Store outputs in DB       | Yes                |
| Nb of level 1b prods      | 332                |
| Nb of prods with errors   | 2                  |

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

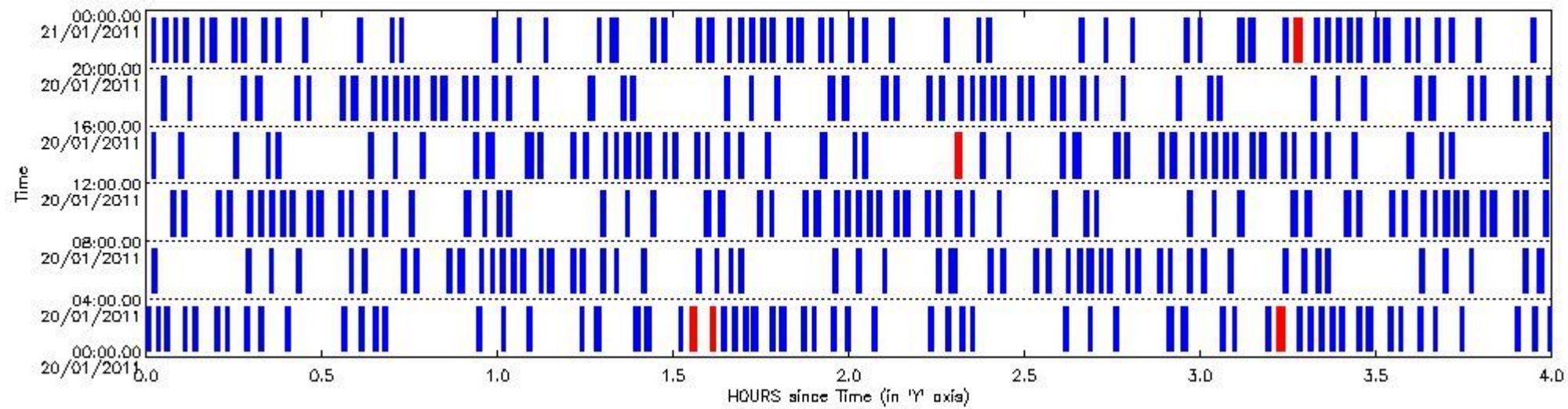
### 2.1 Level 0 products arrived in PCF (see template [here](#))

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

Red segments are missing products.

Blue segments are available products.

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



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

| UTC start time       | Star name | Star ID | Orbit |
|----------------------|-----------|---------|-------|
| 20-JAN-2011 01:32:45 | 9Alp2Lib  | 122     | 46482 |
| 20-JAN-2011 01:36:16 | GamLup    | 131     | 46482 |
| 20-JAN-2011 03:13:00 | 9Alp2Lib  | 122     | 46483 |
| 20-JAN-2011 14:18:13 | 50AlpUMa  | 36      | 46490 |
| 20-JAN-2011 23:16:03 | 9Alp2Lib  | 122     | 46495 |

### 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_1PNPDE20110120_000140_000000453098_00347_46482_5247.N1 | 20-JAN-2011 00:01:40 | Dark | 44.500   | 95      | Zet Cen   | 2.5450   | 26000.    | 89      | 46482 | No          |
| 2  | GOM_TRA_1PNPDE20110120_000307_000000543098_00347_46482_5248.N1 | 20-JAN-2011 00:03:07 | Dark | 54.000   | 123     | Iot Cen   | 2.7500   | 10200.    | 108     | 46482 | No          |
| 3  | GOM_TRA_1PNPDE20110120_000616_000000433098_00347_46482_5249.N1 | 20-JAN-2011 00:06:16 | Dark | 42.500   | 12      | Alp1Cru   | 0.77500  | 30000.    | 85      | 46482 | No          |
| 4  | GOM_TRA_1PNPDE20110120_001139_000000513098_00347_46482_5250.N1 | 20-JAN-2011 00:11:39 | Dark | 51.000   | 113     | Mu Vel    | 2.6920   | 5000.0    | 102     | 46482 | No          |
| 5  | GOM_TRA_1PNPDE20110120_001327_000000413098_00347_46482_5251.N1 | 20-JAN-2011 00:13:27 | Dark | 41.000   | 91      | Kap Vel   | 2.4900   | 26000.    | 82      | 46482 | No          |
| 6  | GOM_TRA_1PNPDE20110120_001646_000000503098_00347_46482_5252.N1 | 20-JAN-2011 00:16:46 | Dark | 50.000   | 65      | Lam Vel   | 2.2040   | 4400.0    | 100     | 46482 | No          |

|    |  |                      |            |        |     |           |         |        |     |       |     |
|----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|-----|
| 7  | GOM_TRA_1PNPDE20110120_001914_000000433098_00347_46482_5253.N1 | 20-JAN-2011 00:19:14 | Dark       | 43.000 | 70  | Zet Pup   | 2.2460  | 39000. | 86  | 46482 | No  |
| 8  | GOM_TRA_1PNPDE20110120_002348_000000483098_00347_46482_5254.N1 | 20-JAN-2011 00:23:48 | Straylight | 47.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 95  | 46482 | No  |
| 9  | GOM_TRA_1PNPDE20110120_003314_000000543098_00347_46482_5255.N1 | 20-JAN-2011 00:33:14 | Twilight   | 54.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 108 | 46482 | No  |
| 10 | GOM_TRA_1PNPDE20110120_003618_000000503098_00347_46482_5256.N1 | 20-JAN-2011 00:36:18 | Bright     | 49.500 | 44  | 24Gam Gem | 1.9280  | 11000. | 99  | 46482 | No  |
| 11 | GOM_TRA_1PNPDE20110120_003849_000000393098_00347_46482_5257.N1 | 20-JAN-2011 00:38:49 | Bright     | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46482 | No  |
| 12 | GOM_TRA_1PNPDE20110120_004028_000000463098_00347_46482_5258.N1 | 20-JAN-2011 00:40:28 | Bright     | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46482 | No  |
| 13 | GOM_TRA_1PNPDE20110120_005630_000000473098_00347_46482_5259.N1 | 20-JAN-2011 00:56:30 | Bright     | 46.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 93  | 46482 | No  |
| 14 | GOM_TRA_1PNPDE20110120_010037_000000413098_00347_46482_5260.N1 | 20-JAN-2011 01:00:37 | Bright     | 41.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 82  | 46482 | No  |
| 15 | GOM_TRA_1PNPDE20110120_010503_000000393098_00347_46482_5261.N1 | 20-JAN-2011 01:05:03 | Bright     | 39.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 78  | 46482 | No  |
| 16 | GOM_TRA_1PNPDE20110120_011407_000000383098_00347_46482_5262.N1 | 20-JAN-2011 01:14:07 | Bright     | 37.500 | 133 | 40Zet Her | 2.8070  | 6000.0 | 75  | 46482 | No  |
| 17 | GOM_TRA_1PNPDE20110120_011625_000000683098_00347_46482_5263.N1 | 20-JAN-2011 01:16:25 | Bright     | 68.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 136 | 46482 | No  |
| 18 | GOM_TRA_1PNPDE20110120_012308_000000673098_00347_46482_5264.N1 | 20-JAN-2011 01:23:08 | Bright     | 67.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 134 | 46482 | No  |
| 19 | GOM_TRA_1PNPDE20110120_012511_000000593098_00347_46482_5265.N1 | 20-JAN-2011 01:25:11 | Bright     | 58.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 117 | 46482 | No  |
| 20 | GOM_TRA_1PNPDE20110120_013052_000000443098_00347_46482_5263.N1 | 20-JAN-2011 01:30:52 | Twilight   | 43.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 87  | 46482 | No  |
| 21 | GOM_TRA_1PNPDE20110120_013813_000000423098_00347_46482_5264.N1 | 20-JAN-2011 01:38:13 | Dark       | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46482 | No  |
| 22 | GOM_TRA_1PNPDE20110120_013957_000000613098_00347_46482_5265.N1 | 20-JAN-2011 01:39:57 | Dark       | 61.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 122 | 46482 | No  |
| 23 | GOM_TRA_1PNPDE20110120_014154_000000443098_00348_46483_5266.N1 | 20-JAN-2011 01:41:54 | Dark       | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46483 | No  |
| 24 | GOM_TRA_1PNPDE20110120_014322_000000533098_00348_46483_5267.N1 | 20-JAN-2011 01:43:22 | Dark       | 52.500 | 123 | lot Cen   | 2.7500  | 10200. | 105 | 46483 | No  |
| 25 | GOM_TRA_1PNPDE20110120_014631_000000443098_00348_46483_5268.N1 | 20-JAN-2011 01:46:31 | Dark       | 43.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 87  | 46483 | No  |
| 26 | GOM_TRA_1PNPDE20110120_015153_000000473098_00348_46483_5269.N1 | 20-JAN-2011 01:51:53 | Dark       | 47.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 94  | 46483 | No  |
| 27 | GOM_TRA_1PNPDE20110120_015342_000000403098_00348_46483_5270.N1 | 20-JAN-2011 01:53:42 | Dark       | 40.000 | 91  | Kap Vel   | 2.4900  | 26000. | 80  | 46483 | No  |
| 28 | GOM_TRA_1PNPDE20110120_015700_000000493098_00348_46483_5271.N1 | 20-JAN-2011 01:57:00 | Dark       | 49.000 | 65  | Lam Vel   | 2.2040  | 4400.0 | 98  | 46483 | No  |
| 29 | GOM_TRA_1PNPDE20110120_015929_000000453098_00348_46483_5272.N1 | 20-JAN-2011 01:59:29 | Dark       | 45.000 | 70  | Zet Pup   | 2.2460  | 39000. | 90  | 46483 | No  |
| 30 | GOM_TRA_1PNPDE20110120_020402_000000463098_00348_46483_5273.N1 | 20-JAN-2011 02:04:02 | Straylight | 46.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 92  | 46483 | No  |
| 31 | GOM_TRA_1PNPDE20110120_021328_000000553098_00348_46483_5274.N1 | 20-JAN-2011 02:13:28 | Twilight   | 55.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 110 | 46483 | No  |
| 32 | GOM_TRA_1PNPDE20110120_021632_000000533098_00348_46483_5275.N1 | 20-JAN-2011 02:16:32 | Bright     | 53.000 | 44  | 24Gam Gem | 1.9280  | 11000. | 106 | 46483 | No  |
| 33 | GOM_TRA_1PNPDE20110120_021903_000000393098_00348_46483_5276.N1 | 20-JAN-2011 02:19:03 | Bright     | 39.000 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 78  | 46483 | No  |
| 34 | GOM_TRA_1PNPDE20110120_022041_000000473098_00348_46483_5277.N1 | 20-JAN-2011 02:20:41 | Bright     | 46.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 93  | 46483 | No  |
| 35 | GOM_TRA_1PNPDE20110120_023643_000000473098_00348_46483_5278.N1 | 20-JAN-2011 02:36:43 | Bright     | 46.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 93  | 46483 | No  |
| 36 | GOM_TRA_1PNPDE20110120_024051_000000403098_00348_46483_5296.N1 | 20-JAN-2011 02:40:51 | Bright     | 40.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 80  | 46483 | No  |
| 37 | GOM_TRA_1PNPDE20110120_024517_000000403098_00348_46483_5297.N1 | 20-JAN-2011 02:45:17 | Bright     | 39.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 79  | 46483 | No  |
| 38 | GOM_TRA_1PNPDE20110120_025421_000000563098_00348_46483_5298.N1 | 20-JAN-2011 02:54:21 | Bright     | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46483 | No  |
| 39 | GOM_TRA_1PNPDE20110120_025640_000000683098_00348_46483_5299.N1 | 20-JAN-2011 02:56:40 | Bright     | 68.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 136 | 46483 | No  |
| 40 | GOM_TRA_1PNPDE20110120_030323_000000533098_00348_46483_5300.N1 | 20-JAN-2011 03:03:23 | Bright     | 53.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 106 | 46483 | No  |
| 41 | GOM_TRA_1PNPDE20110120_030526_000000453098_00348_46483_5301.N1 | 20-JAN-2011 03:05:26 | Bright     | 44.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 89  | 46483 | No  |
| 42 | GOM_TRA_1PNPDE20110120_031107_000000493098_00348_46483_5302.N1 | 20-JAN-2011 03:11:07 | Twilight   | 49.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 98  | 46483 | No  |
| 43 | GOM_TRA_1PNPDE20110120_031634_000000413098_00348_46483_5303.N1 | 20-JAN-2011 03:16:34 | Dark       | 41.000 | 131 | Gam Lup   | 2.8000  | 26000. | 82  | 46483 | No  |
| 44 | GOM_TRA_1PNPDE20110120_031828_000000433098_00348_46483_5304.N1 | 20-JAN-2011 03:18:28 | Dark       | 43.000 | 109 | Bet Lup   | 2.6770  | 26000. | 86  | 46483 | No  |
| 45 | GOM_TRA_1PNPDE20110120_032012_000000503098_00348_46483_5305.N1 | 20-JAN-2011 03:20:12 | Dark       | 50.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 100 | 46483 | No  |
| 46 | GOM_TRA_1PNPDE20110120_032209_000000443098_00349_46484_5306.N1 | 20-JAN-2011 03:22:09 | Dark       | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46484 | No  |
| 47 | GOM_TRA_1PNPDE20110120_032338_000000553098_00349_46484_5307.N1 | 20-JAN-2011 03:23:38 | Dark       | 54.500 | 123 | lot Cen   | 2.7500  | 10200. | 109 | 46484 | No  |
| 48 | GOM_TRA_1PNPDE20110120_032645_000000413098_00349_46484_5308.N1 | 20-JAN-2011 03:26:45 | Dark       | 41.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 82  | 46484 | No  |
| 49 | GOM_TRA_1PNPDE20110120_033208_000000463098_00349_46484_5309.N1 | 20-JAN-2011 03:32:08 | Dark       | 45.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 91  | 46484 | No  |
| 50 | GOM_TRA_1PNPDE20110120_033356_000000403098_00349_46484_5310.N1 | 20-JAN-2011 03:33:56 | Dark       | 39.500 | 91  | Kap Vel   | 2.4900  | 26000. | 79  | 46484 | No  |
| 51 | GOM_TRA_1PNPDE20110120_033715_000000493098_00349_46484_5311.N1 | 20-JAN-2011 03:37:15 | Dark       | 48.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 97  | 46484 | No  |
| 52 | GOM_TRA_1PNPDE20110120_033943_000000413098_00349_46484_5312.N1 | 20-JAN-2011 03:39:43 | Dark       | 40.500 | 70  | Zet Pup   | 2.2460  | 39000. | 81  | 46484 | No  |
| 53 | GOM_TRA_1PNPDE20110120_034416_000000473098_00349_46484_5313.N1 | 20-JAN-2011 03:44:16 | Straylight | 46.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 93  | 46484 | No  |
| 54 | GOM_TRA_1PNPDE20110120_035342_000000533098_00349_46484_5314.N1 | 20-JAN-2011 03:53:42 | Twilight   | 52.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 105 | 46484 | No  |
| 55 | GOM_TRA_1PNPDE20110120_035646_000000453098_00349_46484_5315.N1 | 20-JAN-2011 03:56:46 | Bright     | 44.500 | 44  | 24Gam Gem | 1.9280  | 11000. | 89  | 46484 | No  |
| 56 | GOM_TRA_1PNPDE20110120_035917_000000393098_00349_46484_5316.N1 | 20-JAN-2011 03:59:17 | Bright     | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46484 | No  |
| 57 | GOM_TRA_1PNPDE20110120_040055_000000473098_00349_46484_5317.N1 | 20-JAN-2011 04:00:55 | Bright     | 46.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 93  | 46484 | No  |
| 58 | GOM_TRA_1PNPDE20110120_041657_000000503098_00349_46484_5318.N1 | 20-JAN-2011 04:16:57 | Bright     | 50.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 100 | 46484 | No  |
| 59 | GOM_TRA_1PNPDE20110120_042105_000000393098_00349_46484_5314.N1 | 20-JAN-2011 04:21:05 | Bright     | 38.500 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 77  | 46484 | Yes |
| 60 | GOM_TRA_1PNPDE20110120_042531_000000553098_00349_46484_5315.N1 | 20-JAN-2011 04:25:31 | Bright     | 54.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 109 | 46484 | No  |
| 61 | GOM_TRA_1PNPDE20110120_043435_000000373098_00349_46484_5316.N1 | 20-JAN-2011 04:34:35 | Bright     | 37.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 74  | 46484 | No  |
| 62 | GOM_TRA_1PNPDE20110120_043654_000000483098_00349_46484_5317.N1 | 20-JAN-2011 04:36:54 | Bright     | 47.500 | 67  | 5Alp CrB  | 2.2210  | 11000. | 95  | 46484 | No  |
| 63 | GOM_TRA_1PNPDE20110120_044338_000000483098_00349_46484_5318.N1 | 20-JAN-2011 04:43:38 | Bright     | 47.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 95  | 46484 | No  |
| 64 | GOM_TRA_1PNPDE20110120_044540_000000443098_00349_46484_5319.N1 | 20-JAN-2011 04:45:40 | Bright     | 44.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 88  | 46484 | No  |
| 65 | GOM_TRA_1PNPDE20110120_045122_000000473098_00349_46484_5320.N1 | 20-JAN-2011 04:51:22 | Twilight   | 47.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 94  | 46484 | No  |



|     |  |                      |                |        |     |           |         |        |     |       |    |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 66  | GOM_TRA_1PNPDE20110120_045319_000000563098_00349_46484_5321.N1 | 20-JAN-2011 04:53:19 | Dark           | 56.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 112 | 46484 | No |
| 67  | GOM_TRA_1PNPDE20110120_045649_000000433098_00349_46484_5322.N1 | 20-JAN-2011 04:56:49 | Dark           | 43.000 | 131 | Gam Lup   | 2.8000  | 26000. | 86  | 46484 | No |
| 68  | GOM_TRA_1PNPDE20110120_045843_000000423098_00349_46484_5323.N1 | 20-JAN-2011 04:58:43 | Dark           | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46484 | No |
| 69  | GOM_TRA_1PNPDE20110120_050027_000000523098_00349_46484_5324.N1 | 20-JAN-2011 05:00:27 | Dark           | 52.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 104 | 46484 | No |
| 70  | GOM_TRA_1PNPDE20110120_050224_000000443098_00350_46485_5325.N1 | 20-JAN-2011 05:02:24 | Dark           | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46485 | No |
| 71  | GOM_TRA_1PNPDE20110120_050353_000000563098_00350_46485_5326.N1 | 20-JAN-2011 05:03:53 | Dark           | 55.500 | 123 | lot Cen   | 2.7500  | 10200. | 111 | 46485 | No |
| 72  | GOM_TRA_1PNPDE20110120_050700_000000423098_00350_46485_5327.N1 | 20-JAN-2011 05:07:00 | Dark           | 42.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 84  | 46485 | No |
| 73  | GOM_TRA_1PNPDE20110120_051223_000000513098_00350_46485_5328.N1 | 20-JAN-2011 05:12:23 | Dark           | 50.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 101 | 46485 | No |
| 74  | GOM_TRA_1PNPDE20110120_051411_000000403098_00350_46485_5329.N1 | 20-JAN-2011 05:14:11 | Dark           | 39.500 | 91  | Kap Vel   | 2.4900  | 26000. | 79  | 46485 | No |
| 75  | GOM_TRA_1PNPDE20110120_051729_000000553098_00350_46485_5330.N1 | 20-JAN-2011 05:17:29 | Dark           | 55.000 | 65  | Lam Vel   | 2.2040  | 4400.0 | 110 | 46485 | No |
| 76  | GOM_TRA_1PNPDE20110120_051958_000000423098_00350_46485_5331.N1 | 20-JAN-2011 05:19:58 | Dark           | 41.500 | 70  | Zet Pup   | 2.2460  | 39000. | 83  | 46485 | No |
| 77  | GOM_TRA_1PNPDE20110120_052431_000000493098_00350_46485_5332.N1 | 20-JAN-2011 05:24:31 | Straylight     | 48.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 97  | 46485 | No |
| 78  | GOM_TRA_1PNPDE20110120_053356_000000483098_00350_46485_5333.N1 | 20-JAN-2011 05:33:56 | Tw_i_and_stray | 48.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 96  | 46485 | No |
| 79  | GOM_TRA_1PNPDE20110120_053700_000000453098_00350_46485_5334.N1 | 20-JAN-2011 05:37:00 | Bright         | 44.500 | 44  | 24Gam Gem | 1.9280  | 11000. | 89  | 46485 | No |
| 80  | GOM_TRA_1PNPDE20110120_053931_000000393098_00350_46485_5335.N1 | 20-JAN-2011 05:39:31 | Bright         | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46485 | No |
| 81  | GOM_TRA_1PNPDE20110120_054109_000000463098_00350_46485_5336.N1 | 20-JAN-2011 05:41:09 | Bright         | 46.000 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 92  | 46485 | No |
| 82  | GOM_TRA_1PNPDE20110120_055710_000000493098_00350_46485_5337.N1 | 20-JAN-2011 05:57:10 | Bright         | 48.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 97  | 46485 | No |
| 83  | GOM_TRA_1PNPDE20110120_060118_000000393098_00350_46485_5338.N1 | 20-JAN-2011 06:01:18 | Bright         | 38.500 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 77  | 46485 | No |
| 84  | GOM_TRA_1PNPDK20110120_060545_000000393098_00350_46485_3807.N1 | 20-JAN-2011 06:05:45 | Bright         | 38.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 77  | 46485 | No |
| 85  | GOM_TRA_1PNPDK20110120_061449_000000563098_00350_46485_3808.N1 | 20-JAN-2011 06:14:49 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46485 | No |
| 86  | GOM_TRA_1PNPDK20110120_061708_000000683098_00350_46485_3809.N1 | 20-JAN-2011 06:17:08 | Bright         | 68.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 136 | 46485 | No |
| 87  | GOM_TRA_1PNPDK20110120_062352_000000483098_00350_46485_3810.N1 | 20-JAN-2011 06:23:52 | Bright         | 47.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 95  | 46485 | No |
| 88  | GOM_TRA_1PNPDK20110120_062555_000000473098_00350_46485_3811.N1 | 20-JAN-2011 06:25:55 | Bright         | 47.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 94  | 46485 | No |
| 89  | GOM_TRA_1PNPDK20110120_063136_000000463098_00350_46485_3812.N1 | 20-JAN-2011 06:31:36 | Twilight       | 45.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 91  | 46485 | No |
| 90  | GOM_TRA_1PNPDK20110120_063334_000000563098_00350_46485_3813.N1 | 20-JAN-2011 06:33:34 | Dark           | 55.500 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 111 | 46485 | No |
| 91  | GOM_TRA_1PNPDK20110120_063704_000000433098_00350_46485_3814.N1 | 20-JAN-2011 06:37:04 | Dark           | 43.000 | 131 | Gam Lup   | 2.8000  | 26000. | 86  | 46485 | No |
| 92  | GOM_TRA_1PNPDK20110120_063857_000000453098_00350_46485_3815.N1 | 20-JAN-2011 06:38:57 | Dark           | 44.500 | 109 | Bet Lup   | 2.6770  | 26000. | 89  | 46485 | No |
| 93  | GOM_TRA_1PNPDK20110120_064042_000000553098_00350_46485_3816.N1 | 20-JAN-2011 06:40:42 | Dark           | 55.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 110 | 46485 | No |
| 94  | GOM_TRA_1PNPDK20110120_064239_000000443098_00351_46486_3817.N1 | 20-JAN-2011 06:42:39 | Dark           | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46486 | No |
| 95  | GOM_TRA_1PNPDK20110120_064408_000000543098_00351_46486_3818.N1 | 20-JAN-2011 06:44:08 | Dark           | 54.000 | 123 | lot Cen   | 2.7500  | 10200. | 108 | 46486 | No |
| 96  | GOM_TRA_1PNPDK20110120_064715_000000413098_00351_46486_3819.N1 | 20-JAN-2011 06:47:15 | Dark           | 41.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 82  | 46486 | No |
| 97  | GOM_TRA_1PNPDK20110120_065238_000000483098_00351_46486_3820.N1 | 20-JAN-2011 06:52:38 | Dark           | 48.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 96  | 46486 | No |
| 98  | GOM_TRA_1PNPDK20110120_065425_000000393098_00351_46486_3821.N1 | 20-JAN-2011 06:54:25 | Dark           | 38.500 | 91  | Kap Vel   | 2.4900  | 26000. | 77  | 46486 | No |
| 99  | GOM_TRA_1PNPDK20110120_065744_000000503098_00351_46486_3822.N1 | 20-JAN-2011 06:57:44 | Dark           | 49.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 99  | 46486 | No |
| 100 | GOM_TRA_1PNPDK20110120_070012_000000413098_00351_46486_3823.N1 | 20-JAN-2011 07:00:12 | Dark           | 40.500 | 70  | Zet Pup   | 2.2460  | 39000. | 81  | 46486 | No |
| 101 | GOM_TRA_1PNPDK20110120_070445_000000423098_00351_46486_3824.N1 | 20-JAN-2011 07:04:45 | Straylight     | 42.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 84  | 46486 | No |
| 102 | GOM_TRA_1PNPDK20110120_071410_000000513098_00351_46486_3835.N1 | 20-JAN-2011 07:14:10 | Tw_i_and_stray | 51.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 102 | 46486 | No |
| 103 | GOM_TRA_1PNPDK20110120_071715_000000463098_00351_46486_3836.N1 | 20-JAN-2011 07:17:15 | Bright         | 45.500 | 44  | 24Gam Gem | 1.9280  | 11000. | 91  | 46486 | No |
| 104 | GOM_TRA_1PNPDK20110120_071945_000000403098_00351_46486_3837.N1 | 20-JAN-2011 07:19:45 | Bright         | 39.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 79  | 46486 | No |
| 105 | GOM_TRA_1PNPDK20110120_072122_000000463098_00351_46486_3838.N1 | 20-JAN-2011 07:21:22 | Bright         | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46486 | No |
| 106 | GOM_TRA_1PNPDK20110120_073723_000000483098_00351_46486_3839.N1 | 20-JAN-2011 07:37:23 | Bright         | 48.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 96  | 46486 | No |
| 107 | GOM_TRA_1PNPDK20110120_074132_000000363098_00351_46486_3840.N1 | 20-JAN-2011 07:41:32 | Bright         | 36.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 72  | 46486 | No |
| 108 | GOM_TRA_1PNPDK20110120_074559_000000393098_00351_46486_3841.N1 | 20-JAN-2011 07:45:59 | Bright         | 39.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 78  | 46486 | No |
| 109 | GOM_TRA_1PNPDK20110120_075504_000000563098_00351_46486_3842.N1 | 20-JAN-2011 07:55:04 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46486 | No |
| 110 | GOM_TRA_1PNPDK20110120_075722_000000683098_00351_46486_3843.N1 | 20-JAN-2011 07:57:22 | Bright         | 68.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 136 | 46486 | No |
| 111 | GOM_TRA_1PNPDK20110120_080407_000000483098_00351_46486_3844.N1 | 20-JAN-2011 08:04:07 | Bright         | 47.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 95  | 46486 | No |
| 112 | GOM_TRA_1PNPDK20110120_080610_000000443098_00351_46486_3845.N1 | 20-JAN-2011 08:06:10 | Bright         | 44.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 88  | 46486 | No |
| 113 | GOM_TRA_1PNPDK20110120_081151_000000493098_00351_46486_3846.N1 | 20-JAN-2011 08:11:51 | Twilight       | 48.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 97  | 46486 | No |
| 114 | GOM_TRA_1PNPDK20110120_081350_000000553098_00351_46486_3847.N1 | 20-JAN-2011 08:13:50 | Dark           | 54.500 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 109 | 46486 | No |
| 115 | GOM_TRA_1PNPDK20110120_081719_000000423098_00351_46486_3848.N1 | 20-JAN-2011 08:17:19 | Dark           | 42.000 | 131 | Gam Lup   | 2.8000  | 26000. | 84  | 46486 | No |
| 116 | GOM_TRA_1PNPDK20110120_081912_000000433098_00351_46486_3849.N1 | 20-JAN-2011 08:19:12 | Dark           | 43.000 | 109 | Bet Lup   | 2.6770  | 26000. | 86  | 46486 | No |
| 117 | GOM_TRA_1PNPDK20110120_082057_000000553098_00351_46486_3850.N1 | 20-JAN-2011 08:20:57 | Dark           | 55.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 110 | 46486 | No |
| 118 | GOM_TRA_1PNPDK20110120_082254_000000443098_00352_46487_3851.N1 | 20-JAN-2011 08:22:54 | Dark           | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46487 | No |
| 119 | GOM_TRA_1PNPDK20110120_082424_000000543098_00352_46487_3852.N1 | 20-JAN-2011 08:24:24 | Dark           | 54.000 | 123 | lot Cen   | 2.7500  | 10200. | 108 | 46487 | No |
| 120 | GOM_TRA_1PNPDK20110120_082729_000000503098_00352_46487_3853.N1 | 20-JAN-2011 08:27:29 | Dark           | 49.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 99  | 46487 | No |
| 121 | GOM_TRA_1PNPDK20110120_083253_000000513098_00352_46487_3854.N1 | 20-JAN-2011 08:32:53 | Dark           | 51.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 102 | 46487 | No |
| 122 | GOM_TRA_1PNPDK20110120_083440_000000423098_00352_46487_3855.N1 | 20-JAN-2011 08:34:40 | Dark           | 42.000 | 91  | Kap Vel   | 2.4900  | 26000. | 84  | 46487 | No |
| 123 | GOM_TRA_1PNPDK20110120_083758_000000523098_00352_46487_3856.N1 | 20-JAN-2011 08:37:58 | Dark           | 52.000 | 65  | Lam Vel   | 2.2040  | 4400.0 | 104 | 46487 | No |
| 124 | GOM_TRA_1PNPDK20110120_084026_000000393098_00352_46487_3857.N1 | 20-JAN-2011 08:40:26 | Dark           | 39.000 | 70  | Zet Pup   | 2.2460  | 39000. | 78  | 46487 | No |

|     |  |                      |                |        |     |           |         |        |     |       |    |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 125 | GOM_TRA_1PNPDK20110120_084459_000000473098_00352_46487_3858.N1 | 20-JAN-2011 08:44:59 | Straylight     | 46.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 93  | 46487 | No |
| 126 | GOM_TRA_1PNPDK20110120_085424_000000563098_00352_46487_3869.N1 | 20-JAN-2011 08:54:24 | Tw_i_and_stray | 55.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 111 | 46487 | No |
| 127 | GOM_TRA_1PNPDK20110120_085734_000000353098_00352_46487_3870.N1 | 20-JAN-2011 08:57:34 | Bright         | 34.500 | 44  | 24Gam Gem | 1.9280  | 11000. | 69  | 46487 | No |
| 128 | GOM_TRA_1PNPDK20110120_085959_000000393098_00352_46487_3871.N1 | 20-JAN-2011 08:59:59 | Bright         | 39.000 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 78  | 46487 | No |
| 129 | GOM_TRA_1PNPDK20110120_090136_000000473098_00352_46487_3872.N1 | 20-JAN-2011 09:01:36 | Bright         | 46.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 93  | 46487 | No |
| 130 | GOM_TRA_1PNPDK20110120_091737_000000503098_00352_46487_3873.N1 | 20-JAN-2011 09:17:37 | Bright         | 50.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 100 | 46487 | No |
| 131 | GOM_TRA_1PNPDK20110120_092146_000000393098_00352_46487_3874.N1 | 20-JAN-2011 09:21:46 | Bright         | 39.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 78  | 46487 | No |
| 132 | GOM_TRA_1PNPDK20110120_092613_000000383098_00352_46487_3875.N1 | 20-JAN-2011 09:26:13 | Bright         | 38.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 76  | 46487 | No |
| 133 | GOM_TRA_1PNPDK20110120_093518_000000563098_00352_46487_3876.N1 | 20-JAN-2011 09:35:18 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46487 | No |
| 134 | GOM_TRA_1PNPDK20110120_093737_000000683098_00352_46487_3877.N1 | 20-JAN-2011 09:37:37 | Bright         | 68.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 136 | 46487 | No |
| 135 | GOM_TRA_1PNPDK20110120_094422_000000513098_00352_46487_3878.N1 | 20-JAN-2011 09:44:22 | Bright         | 51.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 102 | 46487 | No |
| 136 | GOM_TRA_1PNPDK20110120_094624_000000473098_00352_46487_3879.N1 | 20-JAN-2011 09:46:24 | Bright         | 46.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 93  | 46487 | No |
| 137 | GOM_TRA_1PNPDK20110120_095206_000000473098_00352_46487_3880.N1 | 20-JAN-2011 09:52:06 | Twilight       | 47.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 94  | 46487 | No |
| 138 | GOM_TRA_1PNPDK20110120_095405_000000553098_00352_46487_3881.N1 | 20-JAN-2011 09:54:05 | Dark           | 55.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 110 | 46487 | No |
| 139 | GOM_TRA_1PNPDK20110120_095733_000000403098_00352_46487_3882.N1 | 20-JAN-2011 09:57:33 | Dark           | 40.000 | 131 | Gam Lup   | 2.8000  | 26000. | 80  | 46487 | No |
| 140 | GOM_TRA_1PNPDK20110120_095927_000000433098_00352_46487_3883.N1 | 20-JAN-2011 09:59:27 | Dark           | 43.000 | 109 | Bet Lup   | 2.6770  | 26000. | 86  | 46487 | No |
| 141 | GOM_TRA_1PNPDK20110120_100112_000000553098_00352_46487_3884.N1 | 20-JAN-2011 10:01:12 | Dark           | 55.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 110 | 46487 | No |
| 142 | GOM_TRA_1PNPDK20110120_100309_000000463098_00353_46488_3885.N1 | 20-JAN-2011 10:03:09 | Dark           | 45.500 | 95  | Zet Cen   | 2.5450  | 26000. | 91  | 46488 | No |
| 143 | GOM_TRA_1PNPDK20110120_100439_000000553098_00353_46488_3886.N1 | 20-JAN-2011 10:04:39 | Dark           | 55.000 | 123 | lot Cen   | 2.7500  | 10200. | 110 | 46488 | No |
| 144 | GOM_TRA_1PNPDK20110120_100744_000000433098_00353_46488_3887.N1 | 20-JAN-2011 10:07:44 | Dark           | 42.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 85  | 46488 | No |
| 145 | GOM_TRA_1PNPDK20110120_101307_000000463098_00353_46488_3888.N1 | 20-JAN-2011 10:13:07 | Dark           | 45.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 91  | 46488 | No |
| 146 | GOM_TRA_1PNPDK20110120_101454_000000413098_00353_46488_3889.N1 | 20-JAN-2011 10:14:54 | Dark           | 41.000 | 91  | Kap Vel   | 2.4900  | 26000. | 82  | 46488 | No |
| 147 | GOM_TRA_1PNPDK20110120_101813_000000523098_00353_46488_3890.N1 | 20-JAN-2011 10:18:13 | Dark           | 51.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 103 | 46488 | No |
| 148 | GOM_TRA_1PNPDK20110120_102041_000000453098_00353_46488_3891.N1 | 20-JAN-2011 10:20:41 | Dark           | 45.000 | 70  | Zet Pup   | 2.2460  | 39000. | 90  | 46488 | No |
| 149 | GOM_TRA_1PNPDK20110120_102513_000000433098_00353_46488_3892.N1 | 20-JAN-2011 10:25:13 | Straylight     | 43.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 86  | 46488 | No |
| 150 | GOM_TRA_1PNPDK20110120_103438_000000543098_00353_46488_3901.N1 | 20-JAN-2011 10:34:38 | Tw_i_and_stray | 53.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 107 | 46488 | No |
| 151 | GOM_TRA_1PNPDK20110120_104013_000000393098_00353_46488_3902.N1 | 20-JAN-2011 10:40:13 | Bright         | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46488 | No |
| 152 | GOM_TRA_1PNPDK20110120_104150_000000453098_00353_46488_3903.N1 | 20-JAN-2011 10:41:50 | Bright         | 44.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 89  | 46488 | No |
| 153 | GOM_TRA_1PNPDK20110120_105750_000000443098_00353_46488_3904.N1 | 20-JAN-2011 10:57:50 | Bright         | 44.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 88  | 46488 | No |
| 154 | GOM_TRA_1PNPDK20110120_110200_000000403098_00353_46488_3905.N1 | 20-JAN-2011 11:02:00 | Bright         | 40.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 80  | 46488 | No |
| 155 | GOM_TRA_1PNPDK20110120_110626_000000563098_00353_46488_3906.N1 | 20-JAN-2011 11:06:26 | Bright         | 56.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 112 | 46488 | No |
| 156 | GOM_TRA_1PNPDK20110120_111532_000000563098_00353_46488_3907.N1 | 20-JAN-2011 11:15:32 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46488 | No |
| 157 | GOM_TRA_1PNPDK20110120_111751_000000693098_00353_46488_3908.N1 | 20-JAN-2011 11:17:51 | Bright         | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46488 | No |
| 158 | GOM_TRA_1PNPDK20110120_112436_000000673098_00353_46488_3909.N1 | 20-JAN-2011 11:24:36 | Bright         | 67.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 134 | 46488 | No |
| 159 | GOM_TRA_1PNPDK20110120_112639_000000493098_00353_46488_3910.N1 | 20-JAN-2011 11:26:39 | Bright         | 48.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 97  | 46488 | No |
| 160 | GOM_TRA_1PNPDK20110120_113220_000000493098_00353_46488_3911.N1 | 20-JAN-2011 11:32:20 | Twilight       | 48.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 97  | 46488 | No |
| 161 | GOM_TRA_1PNPDK20110120_113420_000000563098_00353_46488_3912.N1 | 20-JAN-2011 11:34:20 | Dark           | 56.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 112 | 46488 | No |
| 162 | GOM_TRA_1PNPDK20110120_113748_000000403098_00353_46488_3913.N1 | 20-JAN-2011 11:37:48 | Dark           | 40.000 | 131 | Gam Lup   | 2.8000  | 26000. | 80  | 46488 | No |
| 163 | GOM_TRA_1PNPDK20110120_113942_000000423098_00353_46488_3914.N1 | 20-JAN-2011 11:39:42 | Dark           | 41.500 | 109 | Bet Lup   | 2.6770  | 26000. | 83  | 46488 | No |
| 164 | GOM_TRA_1PNPDK20110120_114127_000000553098_00353_46488_3915.N1 | 20-JAN-2011 11:41:27 | Dark           | 55.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 110 | 46488 | No |
| 165 | GOM_TRA_1PNPDK20110120_114324_000000453098_00354_46489_3916.N1 | 20-JAN-2011 11:43:24 | Dark           | 45.000 | 95  | Zet Cen   | 2.5450  | 26000. | 90  | 46489 | No |
| 166 | GOM_TRA_1PNPDK20110120_114454_000000553098_00354_46489_3917.N1 | 20-JAN-2011 11:44:54 | Dark           | 55.000 | 123 | lot Cen   | 2.7500  | 10200. | 110 | 46489 | No |
| 167 | GOM_TRA_1PNPDK20110120_114758_000000423098_00354_46489_3918.N1 | 20-JAN-2011 11:47:58 | Dark           | 41.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 83  | 46489 | No |
| 168 | GOM_TRA_1PNPDK20110120_115322_000000573098_00354_46489_3919.N1 | 20-JAN-2011 11:53:22 | Dark           | 56.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 113 | 46489 | No |
| 169 | GOM_TRA_1PNPDK20110120_115509_000000413098_00354_46489_3920.N1 | 20-JAN-2011 11:55:09 | Dark           | 41.000 | 91  | Kap Vel   | 2.4900  | 26000. | 82  | 46489 | No |
| 170 | GOM_TRA_1PNPDK20110120_115827_000000503098_00354_46489_3921.N1 | 20-JAN-2011 11:58:27 | Dark           | 49.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 99  | 46489 | No |
| 171 | GOM_TRA_1PNPDK20110120_120055_000000423098_00354_46489_3922.N1 | 20-JAN-2011 12:00:55 | Dark           | 41.500 | 70  | Zet Pup   | 2.2460  | 39000. | 83  | 46489 | No |
| 172 | GOM_TRA_1PNPDK20110120_120527_000000453098_00354_46489_3923.N1 | 20-JAN-2011 12:05:27 | Straylight     | 44.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 89  | 46489 | No |
| 173 | GOM_TRA_1PNPDK20110120_121452_000000523098_00354_46489_3945.N1 | 20-JAN-2011 12:14:52 | Tw_i_and_stray | 52.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 104 | 46489 | No |
| 174 | GOM_TRA_1PNPDK20110120_122027_000000393098_00354_46489_3946.N1 | 20-JAN-2011 12:20:27 | Bright         | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46489 | No |
| 175 | GOM_TRA_1PNPDK20110120_122203_000000463098_00354_46489_3947.N1 | 20-JAN-2011 12:22:03 | Bright         | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46489 | No |
| 176 | GOM_TRA_1PNPDK20110120_123803_000000453098_00354_46489_3948.N1 | 20-JAN-2011 12:38:03 | Bright         | 44.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 89  | 46489 | No |
| 177 | GOM_TRA_1PNPDK20110120_124214_000000363098_00354_46489_3949.N1 | 20-JAN-2011 12:42:14 | Bright         | 36.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 72  | 46489 | No |
| 178 | GOM_TRA_1PNPDK20110120_124641_000000563098_00354_46489_3950.N1 | 20-JAN-2011 12:46:41 | Bright         | 56.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 112 | 46489 | No |
| 179 | GOM_TRA_1PNPDK20110120_125546_000000563098_00354_46489_3951.N1 | 20-JAN-2011 12:55:46 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46489 | No |
| 180 | GOM_TRA_1PNPDK20110120_125805_000000693098_00354_46489_3952.N1 | 20-JAN-2011 12:58:05 | Bright         | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46489 | No |
| 181 | GOM_TRA_1PNPDK20110120_130451_000000673098_00354_46489_3953.N1 | 20-JAN-2011 13:04:51 | Bright         | 67.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 134 | 46489 | No |
| 182 | GOM_TRA_1PNPDK20110120_130653_000000463098_00354_46489_3954.N1 | 20-JAN-2011 13:06:53 | Bright         | 45.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 91  | 46489 | No |
| 183 | GOM_TRA_1PNPDK20110120_131235_000000473098_00354_46489_3955.N1 | 20-JAN-2011 13:12:35 | Twilight       | 47.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 94  | 46489 | No |

|     |  |                      |                |        |     |           |         |        |     |       |     |
|-----|--|----------------------|----------------|--------|-----|-----------|---------|--------|-----|-------|-----|
| 184 | GOM_TRA_1PNPDK20110120_131435_000000553098_00354_46489_3956.N1 | 20-JAN-2011 13:14:35 | Dark           | 55.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 110 | 46489 | No  |
| 185 | GOM_TRA_1PNPDK20110120_131802_000000403098_00354_46489_3957.N1 | 20-JAN-2011 13:18:02 | Dark           | 40.000 | 131 | Gam Lup   | 2.8000  | 26000. | 80  | 46489 | No  |
| 186 | GOM_TRA_1PNPDK20110120_131956_000000433098_00354_46489_3958.N1 | 20-JAN-2011 13:19:56 | Dark           | 43.000 | 109 | Bet Lup   | 2.6770  | 26000. | 86  | 46489 | No  |
| 187 | GOM_TRA_1PNPDK20110120_132143_000000553098_00354_46489_3959.N1 | 20-JAN-2011 13:21:43 | Dark           | 54.500 | 54  | 5The Cen  | 2.0550  | 4500.0 | 109 | 46489 | No  |
| 188 | GOM_TRA_1PNPDK20110120_132339_000000443098_00355_46490_3960.N1 | 20-JAN-2011 13:23:39 | Dark           | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46490 | No  |
| 189 | GOM_TRA_1PNPDK20110120_132510_000000543098_00355_46490_3961.N1 | 20-JAN-2011 13:25:10 | Dark           | 53.500 | 123 | lot Cen   | 2.7500  | 10200. | 107 | 46490 | No  |
| 190 | GOM_TRA_1PNPDK20110120_132813_000000433098_00355_46490_3962.N1 | 20-JAN-2011 13:28:13 | Dark           | 43.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 86  | 46490 | No  |
| 191 | GOM_TRA_1PNPDK20110120_133337_000000463098_00355_46490_3963.N1 | 20-JAN-2011 13:33:37 | Dark           | 46.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 92  | 46490 | No  |
| 192 | GOM_TRA_1PNPDK20110120_133523_000000423098_00355_46490_3964.N1 | 20-JAN-2011 13:35:23 | Dark           | 41.500 | 91  | Kap Vel   | 2.4900  | 26000. | 83  | 46490 | No  |
| 193 | GOM_TRA_1PNPDK20110120_133841_000000513098_00355_46490_3965.N1 | 20-JAN-2011 13:38:41 | Dark           | 50.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 101 | 46490 | No  |
| 194 | GOM_TRA_1PNPDK20110120_134109_000000433098_00355_46490_3966.N1 | 20-JAN-2011 13:41:09 | Dark           | 42.500 | 70  | Zet Pup   | 2.2460  | 39000. | 85  | 46490 | No  |
| 195 | GOM_TRA_1PNPDK20110120_134542_000000453098_00355_46490_3976.N1 | 20-JAN-2011 13:45:42 | Straylight     | 44.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 89  | 46490 | Yes |
| 196 | GOM_TRA_1PNPDK20110120_135506_000000593098_00355_46490_3977.N1 | 20-JAN-2011 13:55:06 | Tw_i_and_stray | 59.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 118 | 46490 | No  |
| 197 | GOM_TRA_1PNPDK20110120_140041_000000403098_00355_46490_3978.N1 | 20-JAN-2011 14:00:41 | Bright         | 40.000 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 80  | 46490 | No  |
| 198 | GOM_TRA_1PNPDK20110120_140217_000000463098_00355_46490_3979.N1 | 20-JAN-2011 14:02:17 | Bright         | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46490 | No  |
| 199 | GOM_TRA_1PNPDK20110120_142228_000000403098_00355_46490_3980.N1 | 20-JAN-2011 14:22:28 | Bright         | 40.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 80  | 46490 | No  |
| 200 | GOM_TRA_1PNPDK20110120_142654_000000383098_00355_46490_3981.N1 | 20-JAN-2011 14:26:54 | Bright         | 38.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 76  | 46490 | No  |
| 201 | GOM_TRA_1PNPDK20110120_143600_000000563098_00355_46490_3982.N1 | 20-JAN-2011 14:36:00 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46490 | No  |
| 202 | GOM_TRA_1PNPDK20110120_143820_000000693098_00355_46490_3983.N1 | 20-JAN-2011 14:38:20 | Bright         | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46490 | No  |
| 203 | GOM_TRA_1PNPDK20110120_144505_000000673098_00355_46490_3984.N1 | 20-JAN-2011 14:45:05 | Bright         | 67.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 134 | 46490 | No  |
| 204 | GOM_TRA_1PNPDK20110120_144708_000000443098_00355_46490_3985.N1 | 20-JAN-2011 14:47:08 | Bright         | 44.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 88  | 46490 | No  |
| 205 | GOM_TRA_1PNPDK20110120_145250_000000483098_00355_46490_3986.N1 | 20-JAN-2011 14:52:50 | Twilight       | 48.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 96  | 46490 | No  |
| 206 | GOM_TRA_1PNPDK20110120_145450_000000563098_00355_46490_3987.N1 | 20-JAN-2011 14:54:50 | Dark           | 56.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 112 | 46490 | No  |
| 207 | GOM_TRA_1PNPDK20110120_145817_000000413098_00355_46490_3988.N1 | 20-JAN-2011 14:58:17 | Dark           | 41.000 | 131 | Gam Lup   | 2.8000  | 26000. | 82  | 46490 | No  |
| 208 | GOM_TRA_1PNPDK20110120_150011_000000423098_00355_46490_3989.N1 | 20-JAN-2011 15:00:11 | Dark           | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46490 | No  |
| 209 | GOM_TRA_1PNPDK20110120_150158_000000523098_00355_46490_3990.N1 | 20-JAN-2011 15:01:58 | Dark           | 52.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 104 | 46490 | No  |
| 210 | GOM_TRA_1PNPDK20110120_150353_000000453098_00356_46491_3991.N1 | 20-JAN-2011 15:03:53 | Dark           | 44.500 | 95  | Zet Cen   | 2.5450  | 26000. | 89  | 46491 | No  |
| 211 | GOM_TRA_1PNPDK20110120_150525_000000543098_00356_46491_3992.N1 | 20-JAN-2011 15:05:25 | Dark           | 53.500 | 123 | lot Cen   | 2.7500  | 10200. | 107 | 46491 | No  |
| 212 | GOM_TRA_1PNPDK20110120_150827_000000443098_00356_46491_3993.N1 | 20-JAN-2011 15:08:27 | Dark           | 43.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 87  | 46491 | No  |
| 213 | GOM_TRA_1PNPDK20110120_151351_000000473098_00356_46491_3994.N1 | 20-JAN-2011 15:13:51 | Dark           | 46.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 93  | 46491 | No  |
| 214 | GOM_TRA_1PNPDK20110120_151538_000000413098_00356_46491_3995.N1 | 20-JAN-2011 15:15:38 | Dark           | 41.000 | 91  | Kap Vel   | 2.4900  | 26000. | 82  | 46491 | No  |
| 215 | GOM_TRA_1PNPDK20110120_151856_000000513098_00356_46491_3996.N1 | 20-JAN-2011 15:18:56 | Dark           | 50.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 101 | 46491 | No  |
| 216 | GOM_TRA_1PNPDK20110120_152123_000000433098_00356_46491_3997.N1 | 20-JAN-2011 15:21:23 | Dark           | 42.500 | 70  | Zet Pup   | 2.2460  | 39000. | 85  | 46491 | No  |
| 217 | GOM_TRA_1PNPDK20110120_152556_000000463098_00356_46491_4007.N1 | 20-JAN-2011 15:25:56 | Straylight     | 46.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 92  | 46491 | No  |
| 218 | GOM_TRA_1PNPDK20110120_153519_000000583098_00356_46491_4008.N1 | 20-JAN-2011 15:35:19 | Tw_i_and_stray | 57.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 115 | 46491 | No  |
| 219 | GOM_TRA_1PNPDK20110120_154055_000000393098_00356_46491_4009.N1 | 20-JAN-2011 15:40:55 | Bright         | 39.000 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 78  | 46491 | No  |
| 220 | GOM_TRA_1PNPDK20110120_154231_000000463098_00356_46491_4010.N1 | 20-JAN-2011 15:42:31 | Bright         | 46.000 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 92  | 46491 | No  |
| 221 | GOM_TRA_1PNPDK20110120_155830_000000483098_00356_46491_4011.N1 | 20-JAN-2011 15:58:30 | Bright         | 48.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 96  | 46491 | No  |
| 222 | GOM_TRA_1PNPDK20110120_160241_000000393098_00356_46491_4012.N1 | 20-JAN-2011 16:02:41 | Bright         | 39.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 78  | 46491 | No  |
| 223 | GOM_TRA_1PNPDK20110120_160708_000000393098_00356_46491_4013.N1 | 20-JAN-2011 16:07:08 | Bright         | 39.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 78  | 46491 | No  |
| 224 | GOM_TRA_1PNPDK20110120_161614_000000563098_00356_46491_4014.N1 | 20-JAN-2011 16:16:14 | Bright         | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46491 | No  |
| 225 | GOM_TRA_1PNPDK20110120_161834_000000693098_00356_46491_4015.N1 | 20-JAN-2011 16:18:34 | Bright         | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46491 | No  |
| 226 | GOM_TRA_1PNPDK20110120_162520_000000543098_00356_46491_4016.N1 | 20-JAN-2011 16:25:20 | Bright         | 54.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 108 | 46491 | No  |
| 227 | GOM_TRA_1PNPDK20110120_162722_000000473098_00356_46491_4017.N1 | 20-JAN-2011 16:27:22 | Bright         | 46.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 93  | 46491 | No  |
| 228 | GOM_TRA_1PNPDK20110120_163304_000000473098_00356_46491_4018.N1 | 20-JAN-2011 16:33:04 | Twilight       | 47.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 94  | 46491 | No  |
| 229 | GOM_TRA_1PNPDK20110120_163506_000000543098_00356_46491_4019.N1 | 20-JAN-2011 16:35:06 | Dark           | 53.500 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 107 | 46491 | No  |
| 230 | GOM_TRA_1PNPDK20110120_163832_000000413098_00356_46491_4020.N1 | 20-JAN-2011 16:38:32 | Dark           | 41.000 | 131 | Gam Lup   | 2.8000  | 26000. | 82  | 46491 | No  |
| 231 | GOM_TRA_1PNPDK20110120_164026_000000433098_00356_46491_4021.N1 | 20-JAN-2011 16:40:26 | Dark           | 43.000 | 109 | Bet Lup   | 2.6770  | 26000. | 86  | 46491 | No  |
| 232 | GOM_TRA_1PNPDK20110120_164213_000000523098_00356_46491_4022.N1 | 20-JAN-2011 16:42:13 | Dark           | 51.500 | 54  | 5The Cen  | 2.0550  | 4500.0 | 103 | 46491 | No  |
| 233 | GOM_TRA_1PNPDK20110120_164408_000000443098_00357_46492_4023.N1 | 20-JAN-2011 16:44:08 | Dark           | 43.500 | 95  | Zet Cen   | 2.5450  | 26000. | 87  | 46492 | No  |
| 234 | GOM_TRA_1PNPDK20110120_164540_000000553098_00357_46492_4024.N1 | 20-JAN-2011 16:45:40 | Dark           | 54.500 | 123 | lot Cen   | 2.7500  | 10200. | 109 | 46492 | No  |
| 235 | GOM_TRA_1PNPDK20110120_164842_000000513098_00357_46492_4025.N1 | 20-JAN-2011 16:48:42 | Dark           | 50.500 | 12  | Alp1Cru   | 0.77500 | 30000. | 101 | 46492 | No  |
| 236 | GOM_TRA_1PNPDK20110120_165406_000000493098_00357_46492_4026.N1 | 20-JAN-2011 16:54:06 | Dark           | 48.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 97  | 46492 | No  |
| 237 | GOM_TRA_1PNPDK20110120_165552_000000433098_00357_46492_4027.N1 | 20-JAN-2011 16:55:52 | Dark           | 43.000 | 91  | Kap Vel   | 2.4900  | 26000. | 86  | 46492 | No  |
| 238 | GOM_TRA_1PNPDK20110120_165911_000000513098_00357_46492_4028.N1 | 20-JAN-2011 16:59:11 | Dark           | 51.000 | 65  | Lam Vel   | 2.2040  | 4400.0 | 102 | 46492 | No  |
| 239 | GOM_TRA_1PNPDK20110120_170138_000000413098_00357_46492_4029.N1 | 20-JAN-2011 17:01:38 | Dark           | 41.000 | 70  | Zet Pup   | 2.2460  | 39000. | 82  | 46492 | No  |
| 240 | GOM_TRA_1PNPDK20110120_170610_000000473098_00357_46492_4040.N1 | 20-JAN-2011 17:06:10 | Straylight     | 46.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 93  | 46492 | No  |
| 241 | GOM_TRA_1PNPDK20110120_171533_000000563098_00357_46492_4041.N1 | 20-JAN-2011 17:15:33 | Tw_i_and_stray | 56.000 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 112 | 46492 | No  |
| 242 | GOM_TRA_1PNPDK20110120_172109_000000413098_00357_46492_4042.N1 | 20-JAN-2011 17:21:09 | Bright         | 40.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 81  | 46492 | No  |

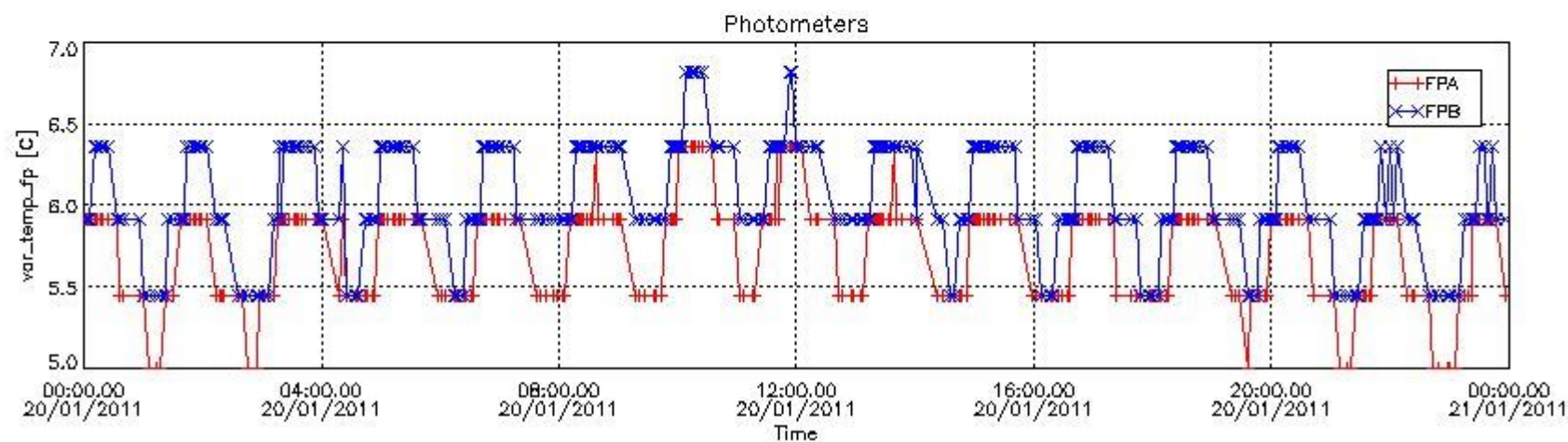
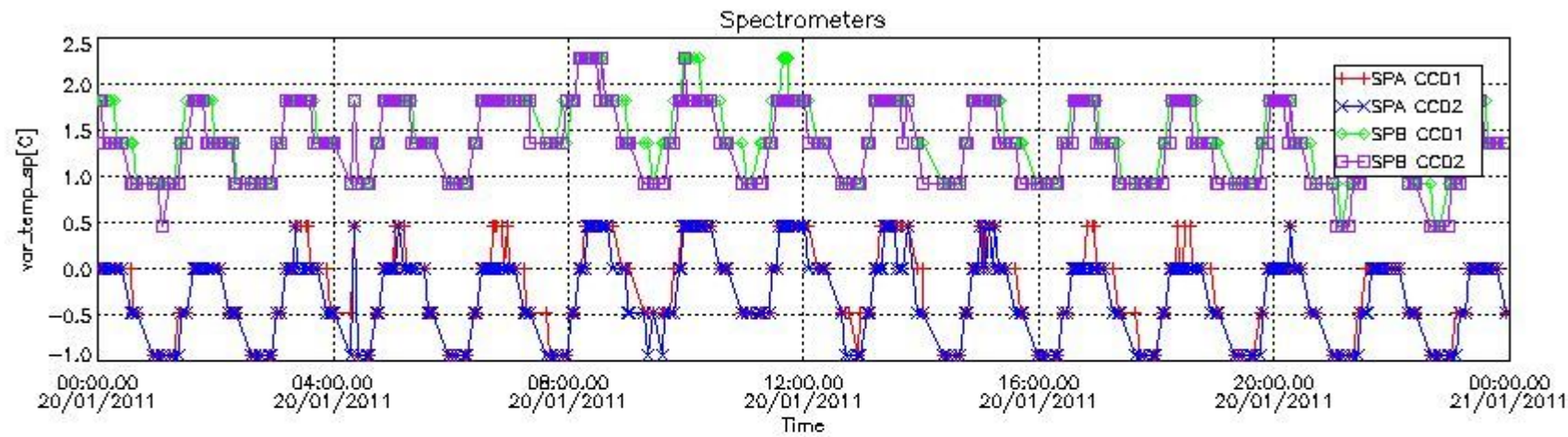


|     |  |                      |              |        |     |           |         |        |     |       |    |
|-----|--|----------------------|--------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 243 | GOM_TRA_1PNPDK20110120_172244_000000463098_00357_46492_4043.N1 | 20-JAN-2011 17:22:44 | Bright       | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46492 | No |
| 244 | GOM_TRA_1PNPDK20110120_173843_000000483098_00357_46492_4044.N1 | 20-JAN-2011 17:38:43 | Bright       | 47.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 95  | 46492 | No |
| 245 | GOM_TRA_1PNPDK20110120_174255_000000423098_00357_46492_4045.N1 | 20-JAN-2011 17:42:55 | Bright       | 41.500 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 83  | 46492 | No |
| 246 | GOM_TRA_1PNPDK20110120_174722_000000393098_00357_46492_4046.N1 | 20-JAN-2011 17:47:22 | Bright       | 39.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 78  | 46492 | No |
| 247 | GOM_TRA_1PNPDK20110120_175628_000000563098_00357_46492_4047.N1 | 20-JAN-2011 17:56:28 | Bright       | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46492 | No |
| 248 | GOM_TRA_1PNPDK20110120_175848_000000693098_00357_46492_4048.N1 | 20-JAN-2011 17:58:48 | Bright       | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46492 | No |
| 249 | GOM_TRA_1PNPDK20110120_180535_000000623098_00357_46492_4049.N1 | 20-JAN-2011 18:05:35 | Bright       | 61.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 123 | 46492 | No |
| 250 | GOM_TRA_1PNPDK20110120_180737_000000493098_00357_46492_4050.N1 | 20-JAN-2011 18:07:37 | Bright       | 49.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 98  | 46492 | No |
| 251 | GOM_TRA_1PNPDK20110120_181319_000000453098_00357_46492_4051.N1 | 20-JAN-2011 18:13:19 | Twilight     | 44.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 89  | 46492 | No |
| 252 | GOM_TRA_1PNPDK20110120_181521_000000573098_00357_46492_4052.N1 | 20-JAN-2011 18:15:21 | Dark         | 56.500 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 113 | 46492 | No |
| 253 | GOM_TRA_1PNPDK20110120_181846_000000443098_00357_46492_4053.N1 | 20-JAN-2011 18:18:46 | Dark         | 43.500 | 131 | Gam Lup   | 2.8000  | 26000. | 87  | 46492 | No |
| 254 | GOM_TRA_1PNPDK20110120_182041_000000433098_00357_46492_4054.N1 | 20-JAN-2011 18:20:41 | Dark         | 42.500 | 109 | Bet Lup   | 2.6770  | 26000. | 85  | 46492 | No |
| 255 | GOM_TRA_1PNPDK20110120_182228_000000523098_00357_46492_4055.N1 | 20-JAN-2011 18:22:28 | Dark         | 51.500 | 54  | 5The Cen  | 2.0550  | 4500.0 | 103 | 46492 | No |
| 256 | GOM_TRA_1PNPDK20110120_182423_000000443098_00358_46493_4056.N1 | 20-JAN-2011 18:24:23 | Dark         | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46493 | No |
| 257 | GOM_TRA_1PNPDK20110120_182556_000000543098_00358_46493_4057.N1 | 20-JAN-2011 18:25:56 | Dark         | 53.500 | 123 | 1ot Cen   | 2.7500  | 10200. | 107 | 46493 | No |
| 258 | GOM_TRA_1PNPDK20110120_182857_000000423098_00358_46493_4058.N1 | 20-JAN-2011 18:28:57 | Dark         | 42.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 84  | 46493 | No |
| 259 | GOM_TRA_1PNPDK20110120_183421_000000483098_00358_46493_4059.N1 | 20-JAN-2011 18:34:21 | Dark         | 47.500 | 113 | Mu Vel    | 2.6920  | 5000.0 | 95  | 46493 | No |
| 260 | GOM_TRA_1PNPDK20110120_183607_000000403098_00358_46493_4060.N1 | 20-JAN-2011 18:36:07 | Dark         | 39.500 | 91  | Kap Vel   | 2.4900  | 26000. | 79  | 46493 | No |
| 261 | GOM_TRA_1PNPDK20110120_183925_000000503098_00358_46493_4063.N1 | 20-JAN-2011 18:39:25 | Dark         | 50.000 | 65  | Lam Vel   | 2.2040  | 4400.0 | 100 | 46493 | No |
| 262 | GOM_TRA_1PNPDK20110120_184152_000000453098_00358_46493_4064.N1 | 20-JAN-2011 18:41:52 | Dark         | 45.000 | 70  | Zet Pup   | 2.2460  | 39000. | 90  | 46493 | No |
| 263 | GOM_TRA_1PNPDK20110120_184624_000000463098_00358_46493_4065.N1 | 20-JAN-2011 18:46:24 | Straylight   | 46.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 92  | 46493 | No |
| 264 | GOM_TRA_1PNPDK20110120_185547_000000543098_00358_46493_4066.N1 | 20-JAN-2011 18:55:47 | Tw_and_stray | 53.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 107 | 46493 | No |
| 265 | GOM_TRA_1PNPDK20110120_190123_000000393098_00358_46493_4067.N1 | 20-JAN-2011 19:01:23 | Bright       | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46493 | No |
| 266 | GOM_TRA_1PNPDK20110120_190258_000000443098_00358_46493_4068.N1 | 20-JAN-2011 19:02:58 | Bright       | 44.000 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 88  | 46493 | No |
| 267 | GOM_TRA_1PNPDK20110120_191857_000000493098_00358_46493_4069.N1 | 20-JAN-2011 19:18:57 | Bright       | 48.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 97  | 46493 | No |
| 268 | GOM_TRA_1PNPDK20110120_192309_000000413098_00358_46493_4070.N1 | 20-JAN-2011 19:23:09 | Bright       | 40.500 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 81  | 46493 | No |
| 269 | GOM_TRA_1PNPDK20110120_192736_000000393098_00358_46493_4071.N1 | 20-JAN-2011 19:27:36 | Bright       | 38.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 77  | 46493 | No |
| 270 | GOM_TRA_1PNPDK20110120_193643_000000563098_00358_46493_4072.N1 | 20-JAN-2011 19:36:43 | Bright       | 56.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 112 | 46493 | No |
| 271 | GOM_TRA_1PNPDK20110120_193902_000000693098_00358_46493_4073.N1 | 20-JAN-2011 19:39:02 | Bright       | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46493 | No |
| 272 | GOM_TRA_1PNPDK20110120_194549_000000503098_00358_46493_4074.N1 | 20-JAN-2011 19:45:49 | Bright       | 50.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 100 | 46493 | No |
| 273 | GOM_TRA_1PNPDK20110120_194751_000000453098_00358_46493_4075.N1 | 20-JAN-2011 19:47:51 | Bright       | 44.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 89  | 46493 | No |
| 274 | GOM_TRA_1PNPDK20110120_195334_000000463098_00358_46493_4076.N1 | 20-JAN-2011 19:53:34 | Twilight     | 45.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 91  | 46493 | No |
| 275 | GOM_TRA_1PNPDK20110120_195536_000000563098_00358_46493_4077.N1 | 20-JAN-2011 19:55:36 | Dark         | 55.500 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 111 | 46493 | No |
| 276 | GOM_TRA_1PNPDK20110120_195901_000000413098_00358_46493_4078.N1 | 20-JAN-2011 19:59:01 | Dark         | 40.500 | 131 | Gam Lup   | 2.8000  | 26000. | 81  | 46493 | No |
| 277 | GOM_TRA_1PNPDK20110120_200055_000000423098_00358_46493_4079.N1 | 20-JAN-2011 20:00:55 | Dark         | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46493 | No |
| 278 | GOM_TRA_1PNPDK20110120_200243_000000543098_00358_46493_4080.N1 | 20-JAN-2011 20:02:43 | Dark         | 54.000 | 54  | 5The Cen  | 2.0550  | 4500.0 | 108 | 46493 | No |
| 279 | GOM_TRA_1PNPDK20110120_200438_000000443098_00359_46494_4081.N1 | 20-JAN-2011 20:04:38 | Dark         | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46494 | No |
| 280 | GOM_TRA_1PNPDK20110120_200611_000000523098_00359_46494_4082.N1 | 20-JAN-2011 20:06:11 | Dark         | 52.000 | 123 | 1ot Cen   | 2.7500  | 10200. | 104 | 46494 | No |
| 281 | GOM_TRA_1PNPDK20110120_200911_000000413098_00359_46494_4083.N1 | 20-JAN-2011 20:09:11 | Dark         | 41.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 82  | 46494 | No |
| 282 | GOM_TRA_1PNPDK20110120_201436_000000473098_00359_46494_4084.N1 | 20-JAN-2011 20:14:36 | Dark         | 47.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 94  | 46494 | No |
| 283 | GOM_TRA_1PNPDE20110120_201621_000000433098_00359_46494_5418.N1 | 20-JAN-2011 20:16:21 | Dark         | 42.500 | 91  | Kap Vel   | 2.4900  | 26000. | 85  | 46494 | No |
| 284 | GOM_TRA_1PNPDE20110120_201940_000000513098_00359_46494_5419.N1 | 20-JAN-2011 20:19:40 | Dark         | 50.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 101 | 46494 | No |
| 285 | GOM_TRA_1PNPDE20110120_202207_000000443098_00359_46494_5420.N1 | 20-JAN-2011 20:22:07 | Dark         | 44.000 | 70  | Zet Pup   | 2.2460  | 39000. | 88  | 46494 | No |
| 286 | GOM_TRA_1PNPDE20110120_202639_000000453098_00359_46494_5421.N1 | 20-JAN-2011 20:26:39 | Straylight   | 44.500 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 89  | 46494 | No |
| 287 | GOM_TRA_1PNPDE20110120_203601_000000543098_00359_46494_5422.N1 | 20-JAN-2011 20:36:01 | Tw_and_stray | 53.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 107 | 46494 | No |
| 288 | GOM_TRA_1PNPDE20110120_204137_000000383098_00359_46494_5423.N1 | 20-JAN-2011 20:41:37 | Bright       | 37.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 75  | 46494 | No |
| 289 | GOM_TRA_1PNPDE20110120_204312_000000463098_00359_46494_5424.N1 | 20-JAN-2011 20:43:12 | Bright       | 45.500 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 91  | 46494 | No |
| 290 | GOM_TRA_1PNPDE20110120_205910_000000503098_00359_46494_5425.N1 | 20-JAN-2011 20:59:10 | Bright       | 50.000 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 100 | 46494 | No |
| 291 | GOM_TRA_1PNPDE20110120_210323_000000383098_00359_46494_5426.N1 | 20-JAN-2011 21:03:23 | Bright       | 37.500 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 75  | 46494 | No |
| 292 | GOM_TRA_1PNPDE20110120_210750_000000383098_00359_46494_5427.N1 | 20-JAN-2011 21:07:50 | Bright       | 38.000 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 76  | 46494 | No |
| 293 | GOM_TRA_1PNPDE20110120_211657_000000383098_00359_46494_5428.N1 | 20-JAN-2011 21:16:57 | Bright       | 37.500 | 133 | 40Zet Her | 2.8070  | 6000.0 | 75  | 46494 | No |
| 294 | GOM_TRA_1PNPDE20110120_211917_000000693098_00359_46494_5429.N1 | 20-JAN-2011 21:19:17 | Bright       | 69.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 138 | 46494 | No |
| 295 | GOM_TRA_1PNPDE20110120_212604_000000493098_00359_46494_5430.N1 | 20-JAN-2011 21:26:04 | Bright       | 49.000 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 98  | 46494 | No |
| 296 | GOM_TRA_1PNPDE20110120_212806_000000453098_00359_46494_5431.N1 | 20-JAN-2011 21:28:06 | Bright       | 45.000 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 90  | 46494 | No |
| 297 | GOM_TRA_1PNPDE20110120_213348_000000483098_00359_46494_5436.N1 | 20-JAN-2011 21:33:48 | Twilight     | 47.500 | 80  | 7Del Sco  | 2.3160  | 30000. | 95  | 46494 | No |
| 298 | GOM_TRA_1PNPDE20110120_213551_000000563098_00359_46494_5437.N1 | 20-JAN-2011 21:35:51 | Dark         | 56.000 | 122 | 9Alp2Lib  | 2.7470  | 9700.0 | 112 | 46494 | No |
| 299 | GOM_TRA_1PNPDE20110120_213916_000000403098_00359_46494_5438.N1 | 20-JAN-2011 21:39:16 | Dark         | 40.000 | 131 | Gam Lup   | 2.8000  | 26000. | 80  | 46494 | No |
| 300 | GOM_TRA_1PNPDE20110120_214110_000000423098_00359_46494_5439.N1 | 20-JAN-2011 21:41:10 | Dark         | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46494 | No |
| 301 | GOM_TRA_1PNPDE20110120_214258_000000543098_00359_46494_5440.N1 | 20-JAN-2011 21:42:58 | Dark         | 53.500 | 54  | 5The Cen  | 2.0550  | 4500.0 | 107 | 46494 | No |

|     |  |                      |            |        |     |           |         |        |     |       |    |
|-----|--|----------------------|------------|--------|-----|-----------|---------|--------|-----|-------|----|
| 302 | GOM_TRA_1PNPDE20110120_214453_000000443098_00360_46495_5441.N1 | 20-JAN-2011 21:44:53 | Dark       | 43.500 | 95  | Zet Cen   | 2.5450  | 26000. | 87  | 46495 | No |
| 303 | GOM_TRA_1PNPDE20110120_214626_000000543098_00360_46495_5442.N1 | 20-JAN-2011 21:46:26 | Dark       | 53.500 | 123 | Iot Cen   | 2.7500  | 10200. | 107 | 46495 | No |
| 304 | GOM_TRA_1PNPDE20110120_214926_000000443098_00360_46495_5443.N1 | 20-JAN-2011 21:49:26 | Dark       | 44.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 88  | 46495 | No |
| 305 | GOM_TRA_1PNPDE20110120_215451_000000523098_00360_46495_5444.N1 | 20-JAN-2011 21:54:51 | Dark       | 52.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 104 | 46495 | No |
| 306 | GOM_TRA_1PNPDE20110120_215636_000000413098_00360_46495_5445.N1 | 20-JAN-2011 21:56:36 | Dark       | 40.500 | 91  | Kap Vel   | 2.4900  | 26000. | 81  | 46495 | No |
| 307 | GOM_TRA_1PNPDE20110120_215954_000000553098_00360_46495_5446.N1 | 20-JAN-2011 21:59:54 | Dark       | 54.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 109 | 46495 | No |
| 308 | GOM_TRA_1PNPDE20110120_220221_000000413098_00360_46495_5447.N1 | 20-JAN-2011 22:02:21 | Dark       | 40.500 | 70  | Zet Pup   | 2.2460  | 39000. | 81  | 46495 | No |
| 309 | GOM_TRA_1PNPDE20110120_220653_000000453098_00360_46495_5448.N1 | 20-JAN-2011 22:06:53 | Straylight | 45.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 90  | 46495 | No |
| 310 | GOM_TRA_1PNPDE20110120_221615_000000553098_00360_46495_5449.N1 | 20-JAN-2011 22:16:15 | Twilight   | 54.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 109 | 46495 | No |
| 311 | GOM_TRA_1PNPDE20110120_222151_000000393098_00360_46495_5450.N1 | 20-JAN-2011 22:21:51 | Bright     | 38.500 | 170 | 27Eps Gem | 3.0000  | 9700.0 | 77  | 46495 | No |
| 312 | GOM_TRA_1PNPDE20110120_222325_000000453098_00360_46495_5451.N1 | 20-JAN-2011 22:23:25 | Bright     | 45.000 | 17  | 78Bet Gem | 1.1610  | 4500.0 | 90  | 46495 | No |
| 313 | GOM_TRA_1PNPDE20110120_223923_000000483098_00360_46495_5452.N1 | 20-JAN-2011 22:39:23 | Bright     | 47.500 | 36  | 50Alp UMa | 1.8000  | 6300.0 | 95  | 46495 | No |
| 314 | GOM_TRA_1PNPDE20110120_224337_000000363098_00360_46495_5453.N1 | 20-JAN-2011 22:43:37 | Bright     | 36.000 | 60  | 7Bet UMi  | 2.0810  | 3950.0 | 72  | 46495 | No |
| 315 | GOM_TRA_1PNPDE20110120_224804_000000393098_00360_46495_5454.N1 | 20-JAN-2011 22:48:04 | Bright     | 38.500 | 119 | 14Eta Dra | 2.7270  | 4700.0 | 77  | 46495 | No |
| 316 | GOM_TRA_1PNPDE20110120_225711_000000573098_00360_46495_5455.N1 | 20-JAN-2011 22:57:11 | Bright     | 57.000 | 133 | 40Zet Her | 2.8070  | 6000.0 | 114 | 46495 | No |
| 317 | GOM_TRA_1PNPDE20110120_225931_000000483098_00360_46495_5456.N1 | 20-JAN-2011 22:59:31 | Bright     | 48.000 | 67  | 5Alp CrB  | 2.2210  | 11000. | 96  | 46495 | No |
| 318 | GOM_TRA_1PNPDE20110120_230618_000000643098_00360_46495_5457.N1 | 20-JAN-2011 23:06:18 | Bright     | 63.500 | 102 | 24Alp Ser | 2.6000  | 4250.0 | 127 | 46495 | No |
| 319 | GOM_TRA_1PNPDE20110120_230821_000000503098_00360_46495_5458.N1 | 20-JAN-2011 23:08:21 | Bright     | 49.500 | 120 | 1Del Oph  | 2.7340  | 3200.0 | 99  | 46495 | No |
| 320 | GOM_TRA_1PNPDE20110120_231403_000000463098_00360_46495_5459.N1 | 20-JAN-2011 23:14:03 | Twilight   | 46.000 | 80  | 7Del Sco  | 2.3160  | 30000. | 92  | 46495 | No |
| 321 | GOM_TRA_1PNPDE20110120_231930_000000413098_00360_46495_5460.N1 | 20-JAN-2011 23:19:30 | Dark       | 40.500 | 131 | Gam Lup   | 2.8000  | 26000. | 81  | 46495 | No |
| 322 | GOM_TRA_1PNPDE20110120_232125_000000423098_00360_46495_5461.N1 | 20-JAN-2011 23:21:25 | Dark       | 42.000 | 109 | Bet Lup   | 2.6770  | 26000. | 84  | 46495 | No |
| 323 | GOM_TRA_1PNPDE20110120_232314_000000513098_00360_46495_5462.N1 | 20-JAN-2011 23:23:14 | Dark       | 50.500 | 54  | 5The Cen  | 2.0550  | 4500.0 | 101 | 46495 | No |
| 324 | GOM_TRA_1PNPDE20110120_232508_000000443098_00361_46496_5463.N1 | 20-JAN-2011 23:25:08 | Dark       | 44.000 | 95  | Zet Cen   | 2.5450  | 26000. | 88  | 46496 | No |
| 325 | GOM_TRA_1PNPDE20110120_232641_000000563098_00361_46496_5464.N1 | 20-JAN-2011 23:26:41 | Dark       | 55.500 | 123 | Iot Cen   | 2.7500  | 10200. | 111 | 46496 | No |
| 326 | GOM_TRA_1PNPDE20110120_232940_000000473098_00361_46496_5465.N1 | 20-JAN-2011 23:29:40 | Dark       | 47.000 | 12  | Alp1Cru   | 0.77500 | 30000. | 94  | 46496 | No |
| 327 | GOM_TRA_1PNPDE20110120_233505_000000503098_00361_46496_5466.N1 | 20-JAN-2011 23:35:05 | Dark       | 50.000 | 113 | Mu Vel    | 2.6920  | 5000.0 | 100 | 46496 | No |
| 328 | GOM_TRA_1PNPDE20110120_233650_000000403098_00361_46496_5467.N1 | 20-JAN-2011 23:36:50 | Dark       | 39.500 | 91  | Kap Vel   | 2.4900  | 26000. | 79  | 46496 | No |
| 329 | GOM_TRA_1PNPDE20110120_234008_000000523098_00361_46496_5468.N1 | 20-JAN-2011 23:40:08 | Dark       | 51.500 | 65  | Lam Vel   | 2.2040  | 4400.0 | 103 | 46496 | No |
| 330 | GOM_TRA_1PNPDE20110120_234235_000000423098_00361_46496_5469.N1 | 20-JAN-2011 23:42:35 | Dark       | 42.000 | 70  | Zet Pup   | 2.2460  | 39000. | 84  | 46496 | No |
| 331 | GOM_TRA_1PNPDE20110120_234707_000000453098_00361_46496_5470.N1 | 20-JAN-2011 23:47:07 | Straylight | 45.000 | 132 | 15Rho Pup | 2.8030  | 6900.0 | 90  | 46496 | No |
| 332 | GOM_TRA_1PNPDE20110120_235629_000000423098_00361_46496_5471.N1 | 20-JAN-2011 23:56:29 | Twilight   | 41.500 | 8   | 10Alp CMi | 0.40000 | 6500.0 | 83  | 46496 | No |

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





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

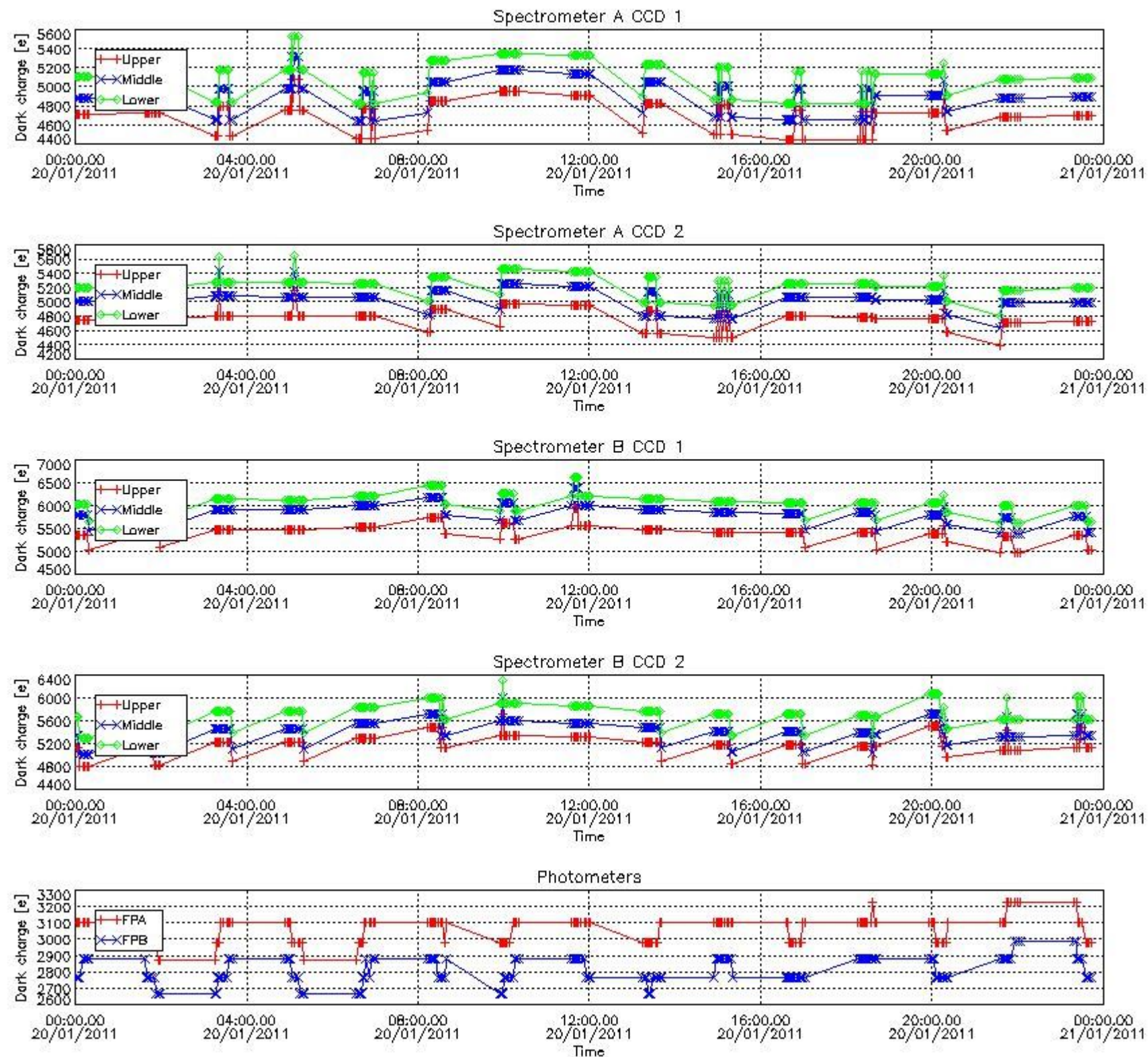
The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount 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_1PNPDE20110120_201621_000000433098_00359_46494_5418.N1 | DC map with no T dep. |
| GOM_TRA_1PNPDE20110120_201940_000000513098_00359_46494_5419.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_202207_000000443098_00359_46494_5420.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_202639_000000453098_00359_46494_5421.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_203601_000000543098_00359_46494_5422.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_204137_000000383098_00359_46494_5423.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_204312_000000463098_00359_46494_5424.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_205910_000000503098_00359_46494_5425.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_210323_000000383098_00359_46494_5426.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_210750_000000383098_00359_46494_5427.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_211657_000000383098_00359_46494_5428.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_211917_000000693098_00359_46494_5429.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_212604_000000493098_00359_46494_5430.N1 | DC map used           |
| GOM_TRA_1PNPDE20110120_212806_000000453098_00359_46494_5431.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

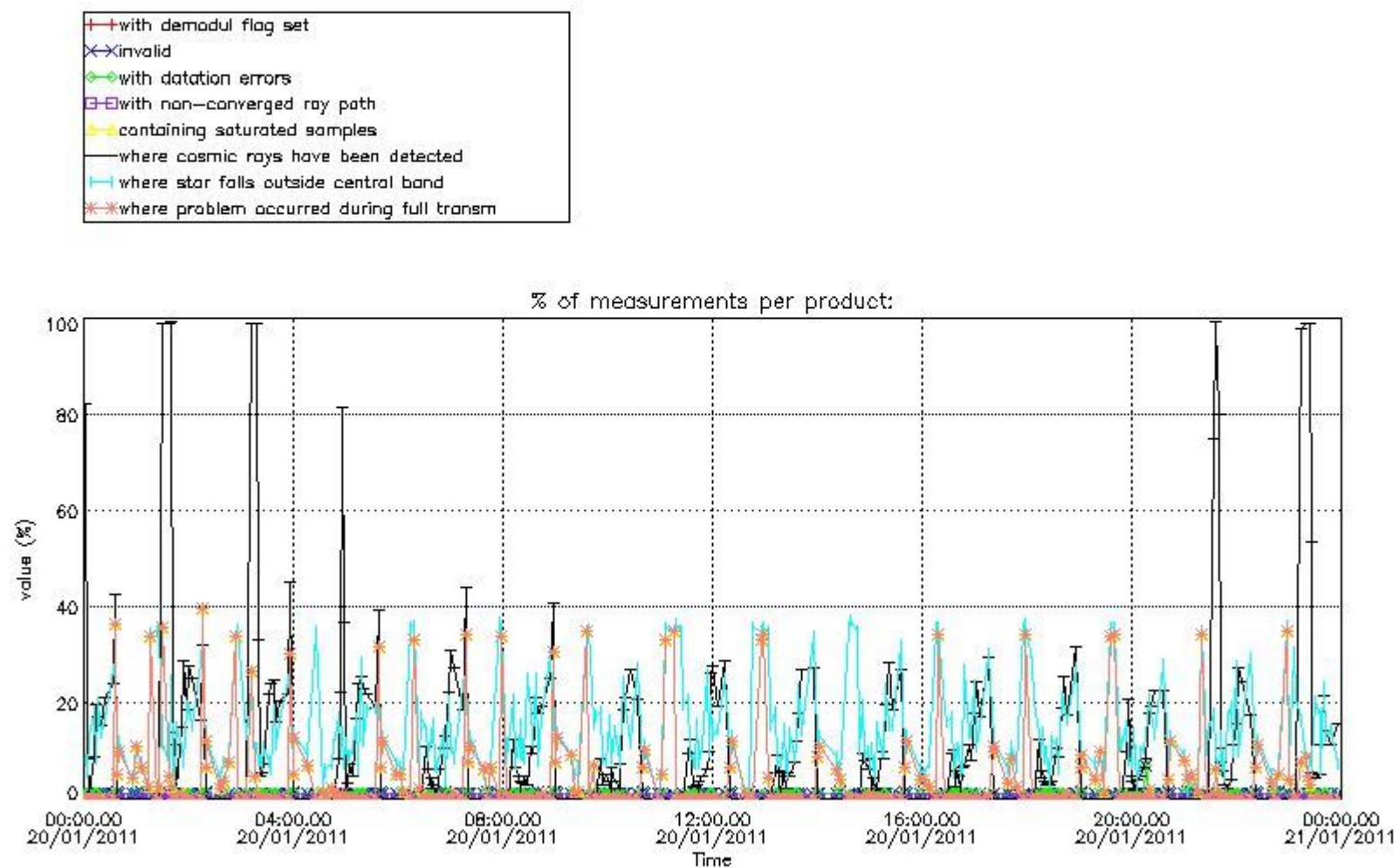
In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.



5.1 Percentage of products during reporting period with:

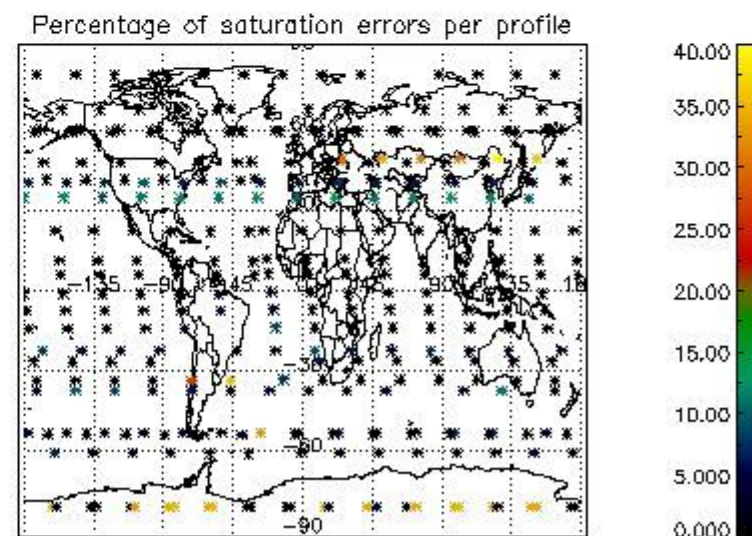
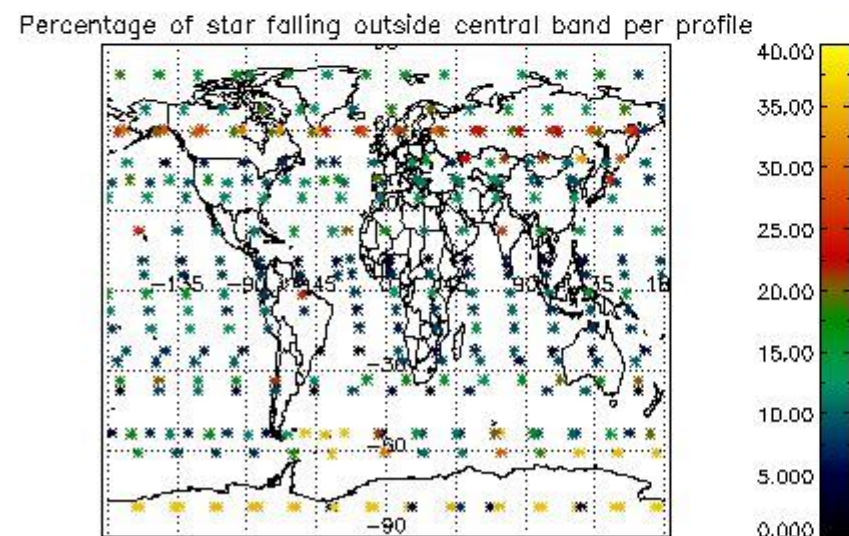
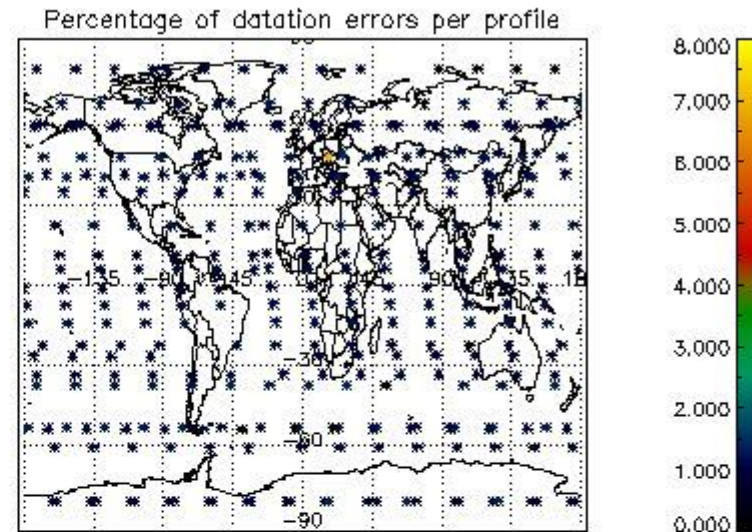
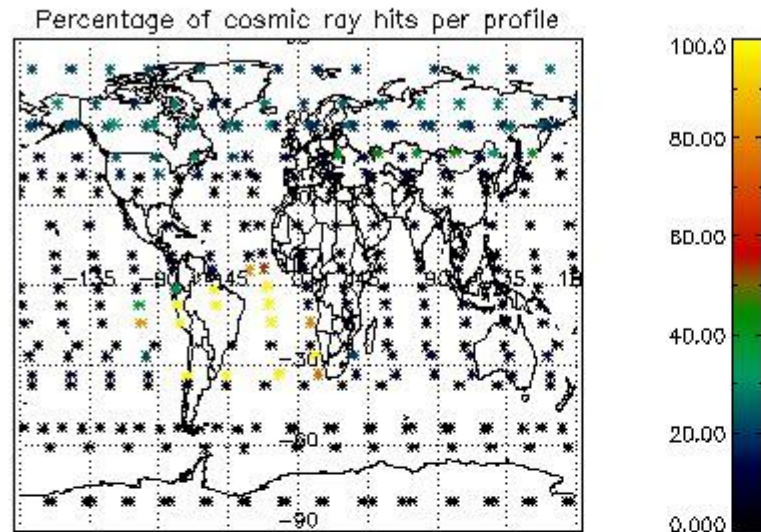
|   |           |
|---|-----------|
| At least one measurement with demodulation flag set:  | 55.1515 % |
| Reference spectrum computed from DB:                  | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used:                                   | 0.00000 % |

5.2 Plot quality information per product (time dependant)



5.3 Plot quality information per product (world map)





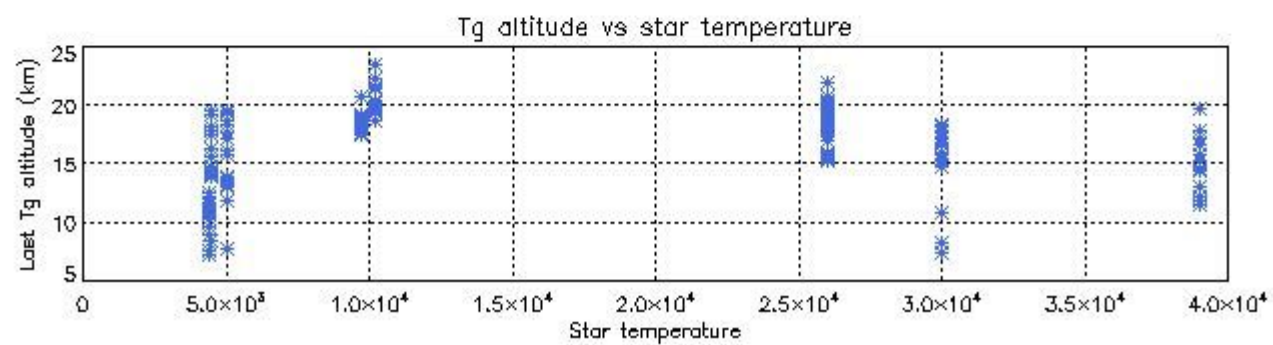
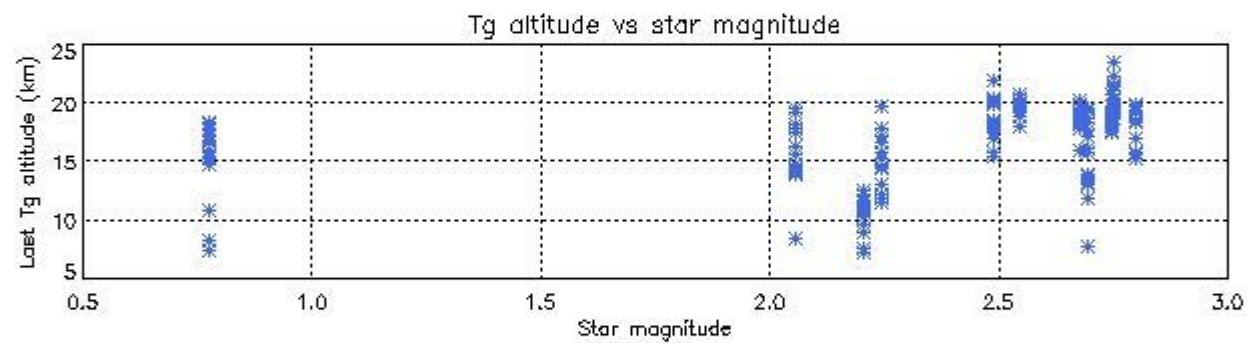
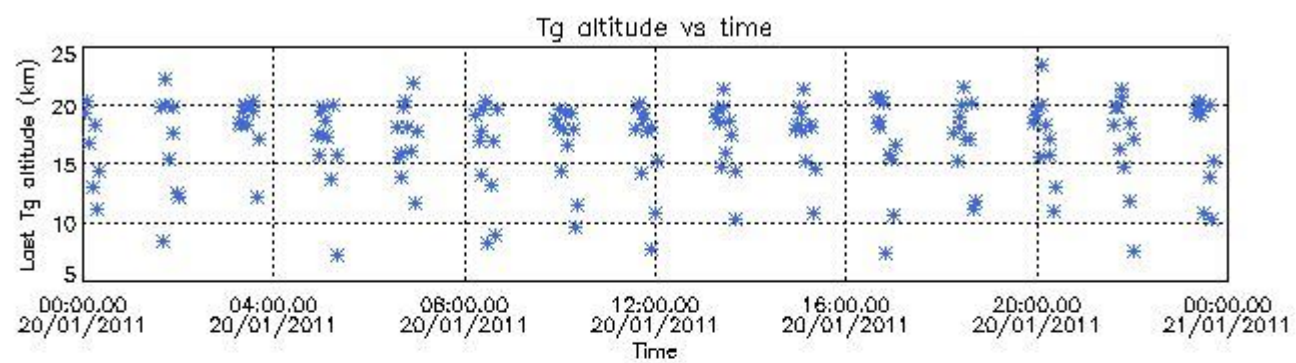
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

| Statistics      | DARK   | BRIGHT | TWILIGHT |
|-----------------|--------|--------|----------|
| Mean:           | 16.932 | 14.355 | 12.608   |
| St. deviation:  | 3.5233 | 6.9711 | 1.6391   |
| Maximum:        | 23.455 | 27.705 | 15.913   |
| Minimum:        | 7.2214 | 3.1678 | 10.549   |
| Number of data: | 157.00 | 130.00 | 14.000   |

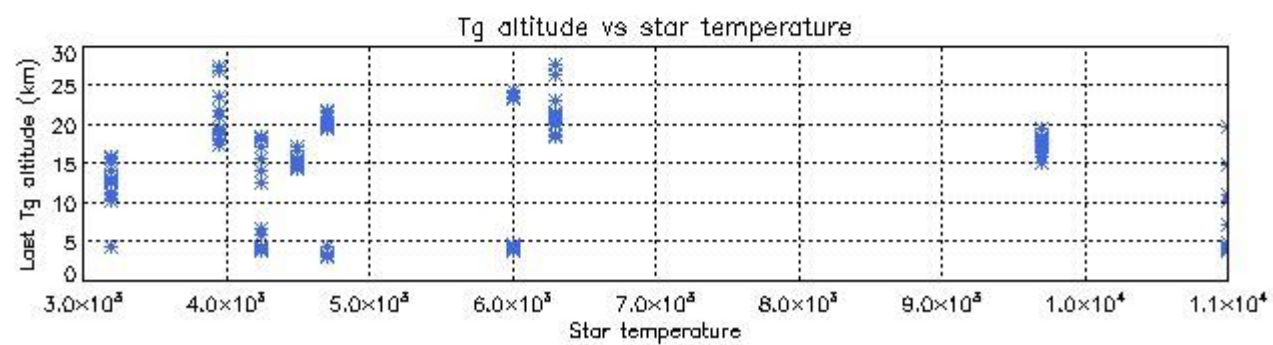
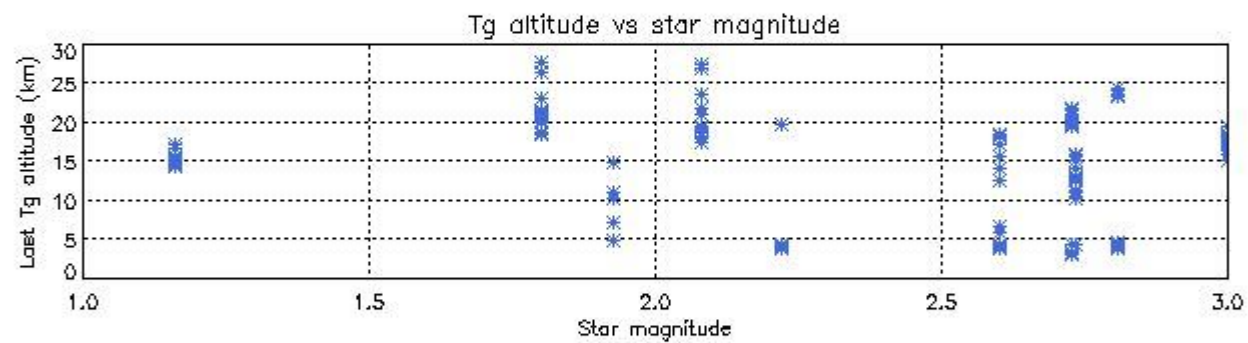
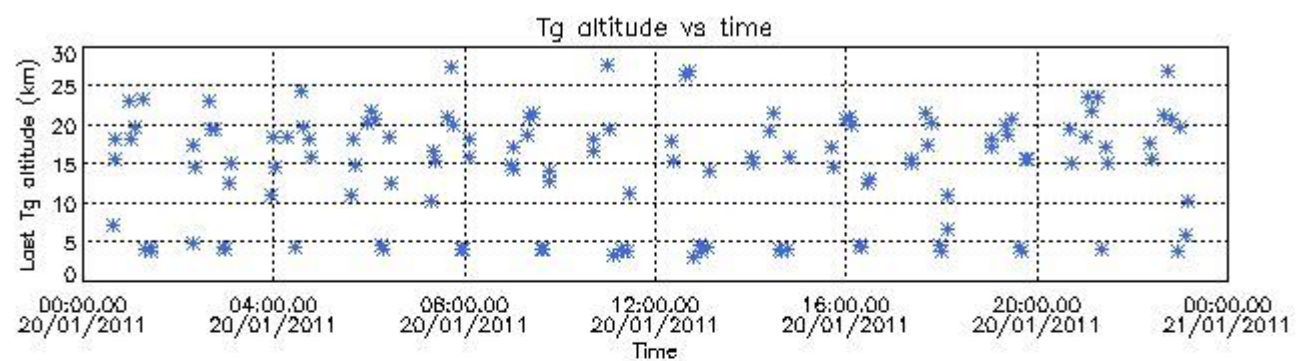
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

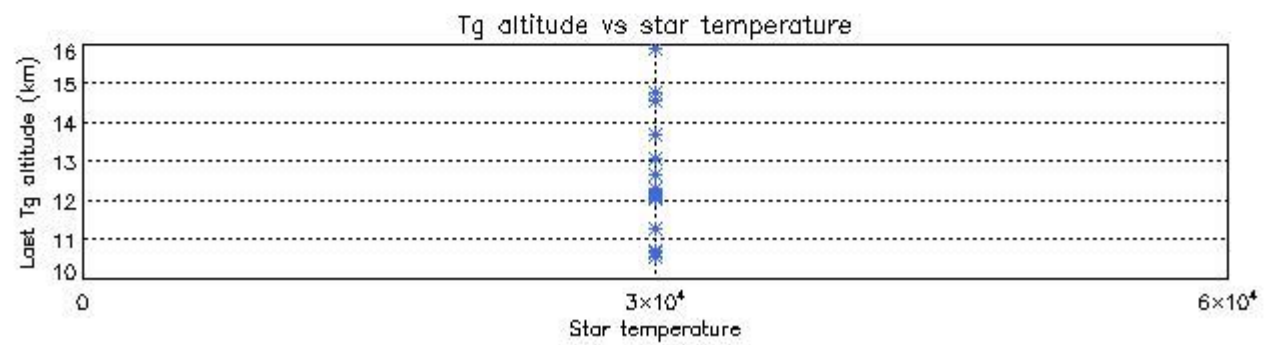
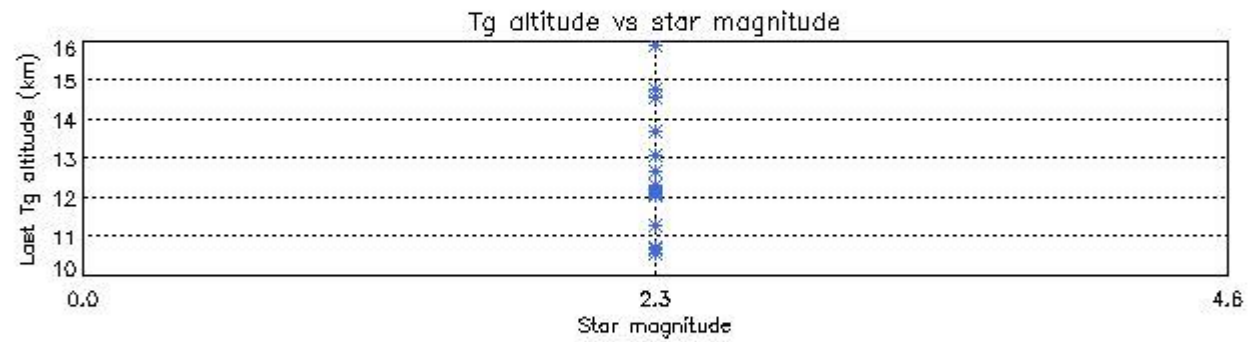
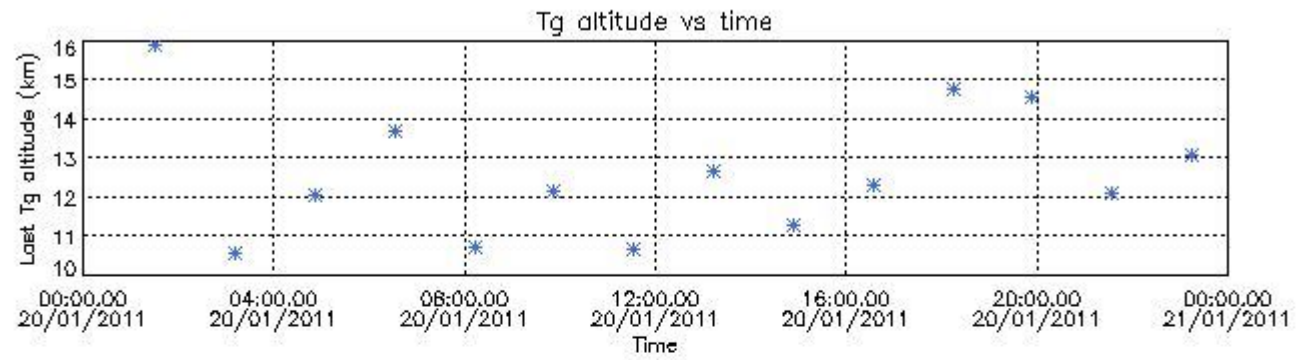
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



Tangent altitude at which the star is lost

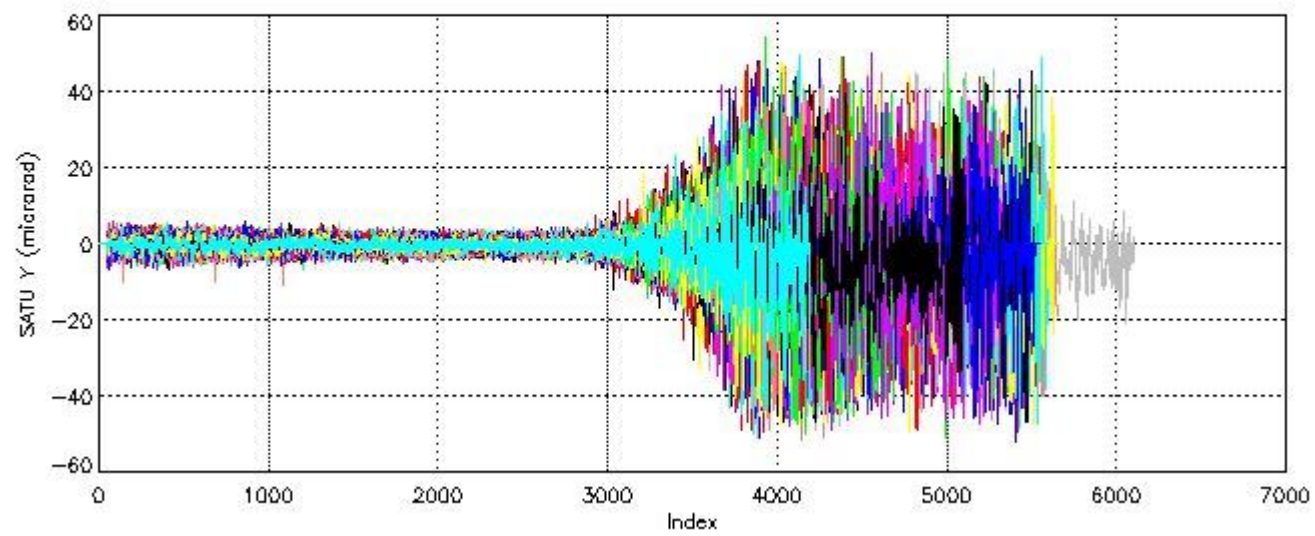
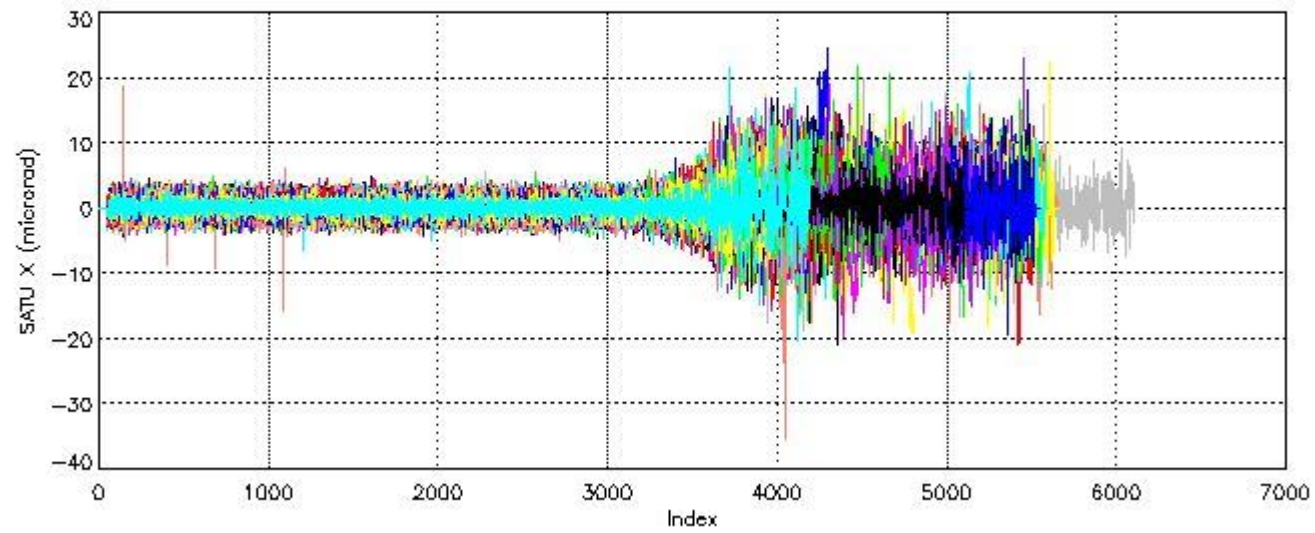


## 7. Star Acquisition and Tracking Unit (SATU)

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:          | 0.18218    | -0.35970   | 0.16342    | -0.37039   |
| St. deviation: | 0.76239    | 1.2271     | 0.55394    | 0.93455    |
| Maximum:       | 18.700     | 5.8000     | 5.5000     | 4.3000     |
| Minimum:       | -9.2000    | -10.000    | -3.8000    | -6.0000    |

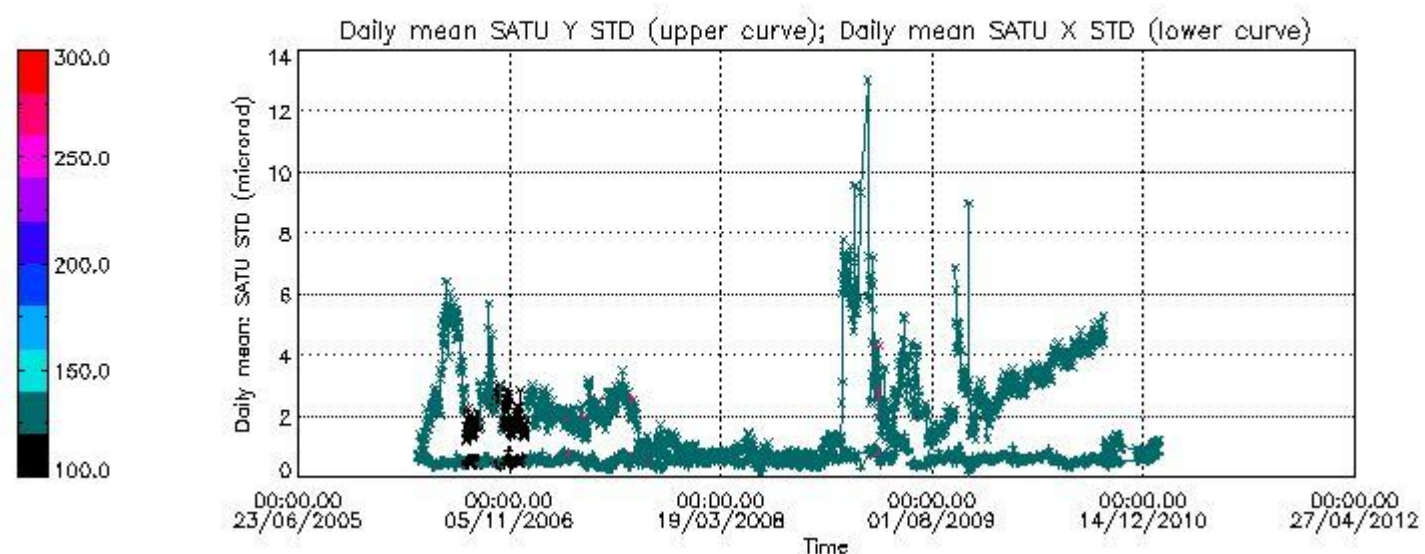
Number of data: 1.7045E+05 1.7045E+05 1.2765E+05 1.2765E+05

### 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



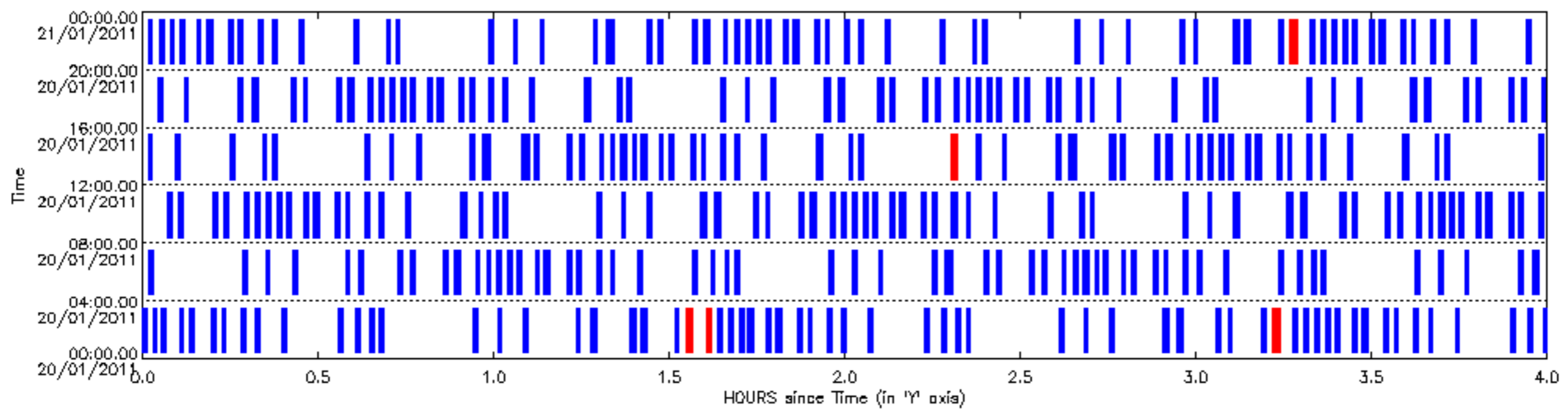
### 8. Auxiliary Data Files used for the production reported in section 2.4

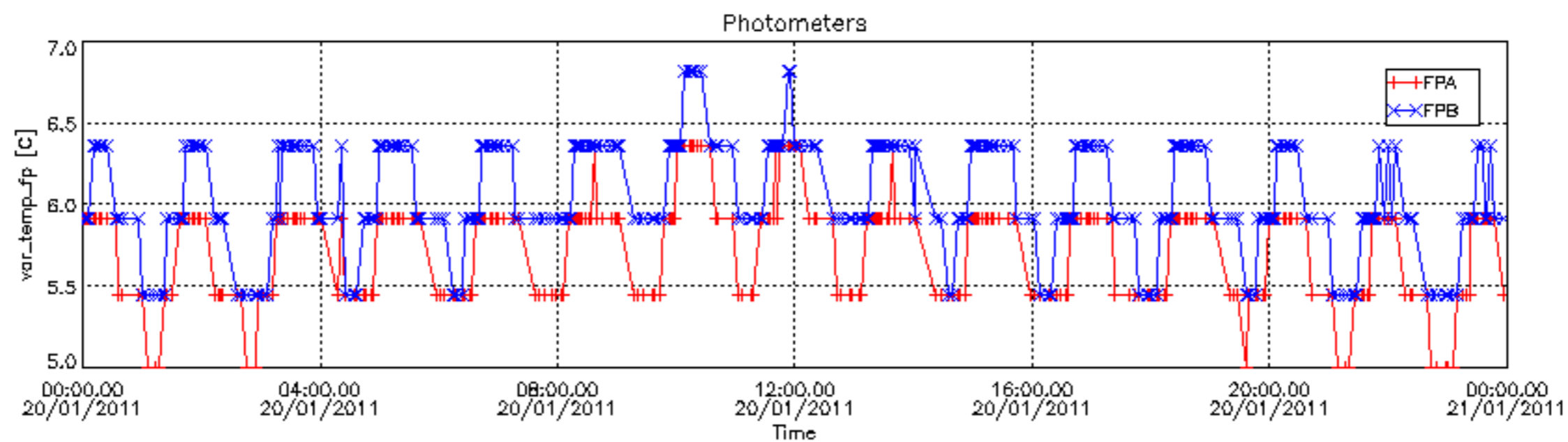
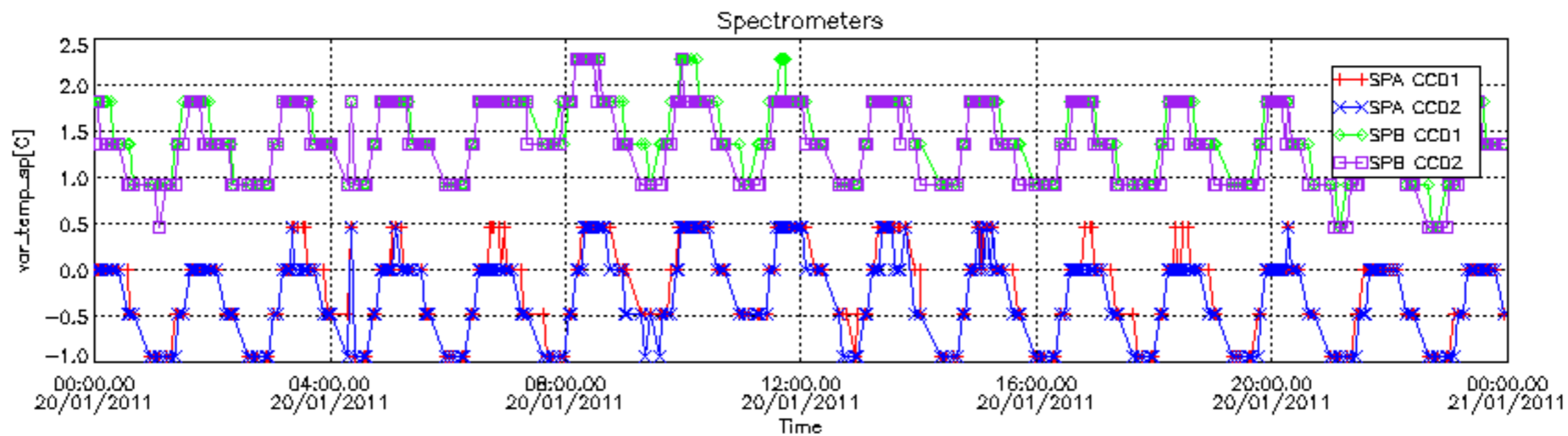
The number reported in the third column indicates since which file (see list in section 2.4) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

| Type                      | Auxiliary Filename   | Used since product | Used since product date |
|---------------------------|--|--------------------|-------------------------|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000  | 1                  | 20-JAN-2011 00:01:40    |
| CALIBRATION_DATABASE      | GOM_CAL_AXVIEC20110118_083541_20110117_000000_20500101_000000  | 1                  | 20-JAN-2011 00:01:40    |
| LEVEL-1B_PROC_CONFIG      | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000  | 1                  | 20-JAN-2011 00:01:40    |
| STAR_CATALOGUE            | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000  | 1                  | 20-JAN-2011 00:01:40    |
| STELLAR_SPECTRA_DATABANK  | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000  | 1                  | 20-JAN-2011 00:01:40    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110119_052117_20110119_210000_20110120_090000  | 1                  | 20-JAN-2011 00:01:40    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110119_172117_20110120_030000_20110120_150000  | 59                 | 20-JAN-2011 04:21:05    |
| ECMWF_FILE                | AUX_ECA_AXNECM20110120_052112_20110119_210000_20110120_090000  | 84                 | 20-JAN-2011 06:05:45    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110119_172117_20110120_030000_20110120_150000  | 126                | 20-JAN-2011 08:54:24    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110120_052113_20110120_090000_20110120_210000  | 150                | 20-JAN-2011 10:34:38    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110120_052113_20110120_150000_20110121_030000  | 217                | 20-JAN-2011 15:25:56    |
| ECMWF_FILE                | AUX_ECA_AXNECM20110120_172114_20110120_090000_20110120_210000  | 261                | 20-JAN-2011 18:39:25    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110120_052113_20110120_150000_20110121_030000  | 283                | 20-JAN-2011 20:16:21    |
| ECMWF_FILE                | AUX_ECF_AXNECM20110120_052113_20110120_210000_20110121_090000  | 297                | 20-JAN-2011 21:33:48    |
| OPTIONAL_ECMWF_FILE       | MISSING  | 1                  | 20-JAN-2011 00:01:40    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20110119_234723_000054193098_00346_46481_2359.N1 | 1                  | 20-JAN-2011 00:01:40    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20110120_012302_000041443098_00347_46482_2360.N1 | 20                 | 20-JAN-2011 01:30:52    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20110120_023725_000057383098_00348_46483_2361.N1 | 36                 | 20-JAN-2011 02:40:51    |
| ORBIT_DATA_FILE           | DOR_NAV_OPNPDE20110120_041822_000057383098_00349_46484_2362.N1 | 59                 | 20-JAN-2011 04:21:05    |
| ORBIT_DATA_FILE           | AUX_FPO_AXVPDS20110118_220922_20110118_193607_20110128_200945  | 84                 | 20-JAN-2011 06:05:45    |

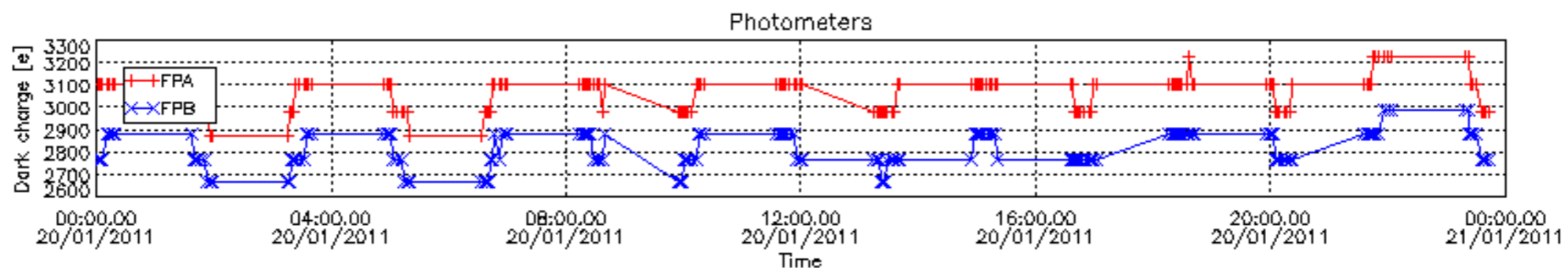
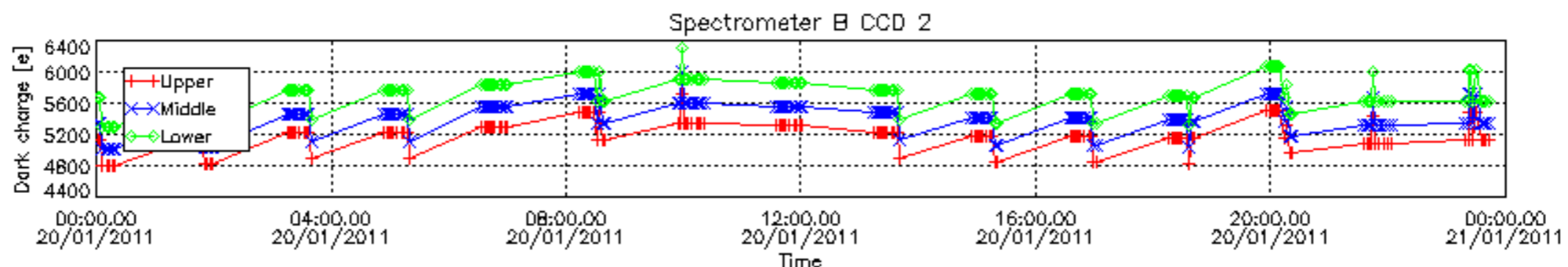
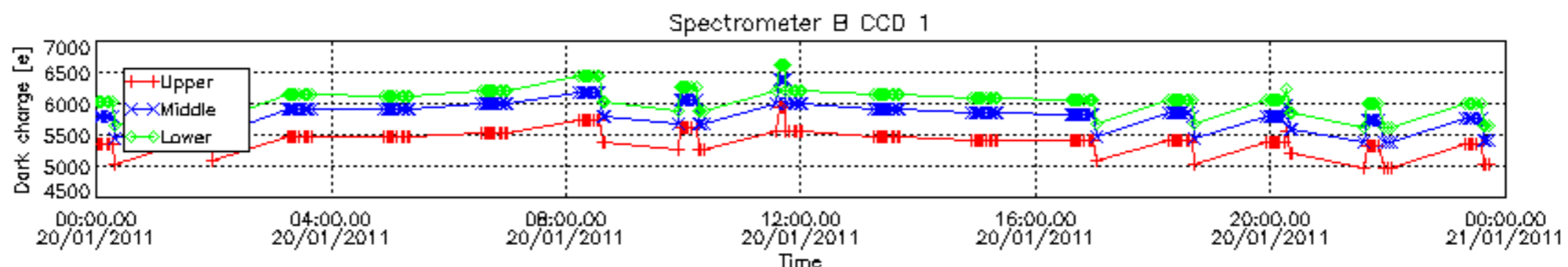
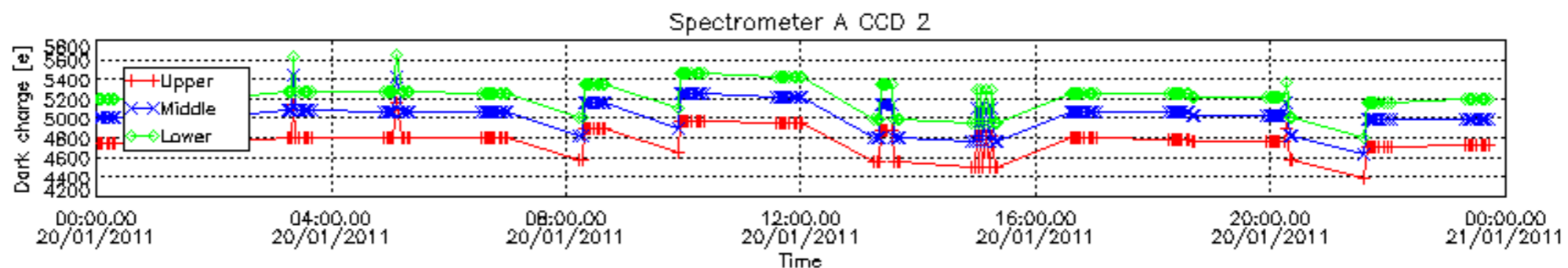
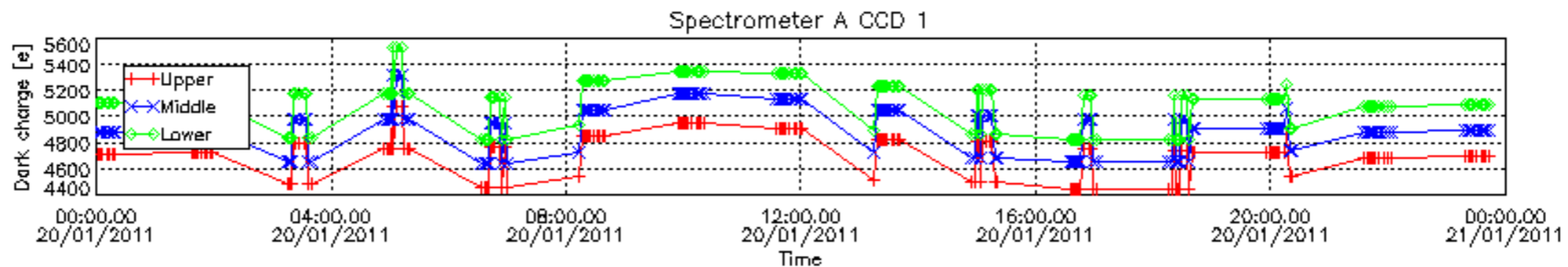


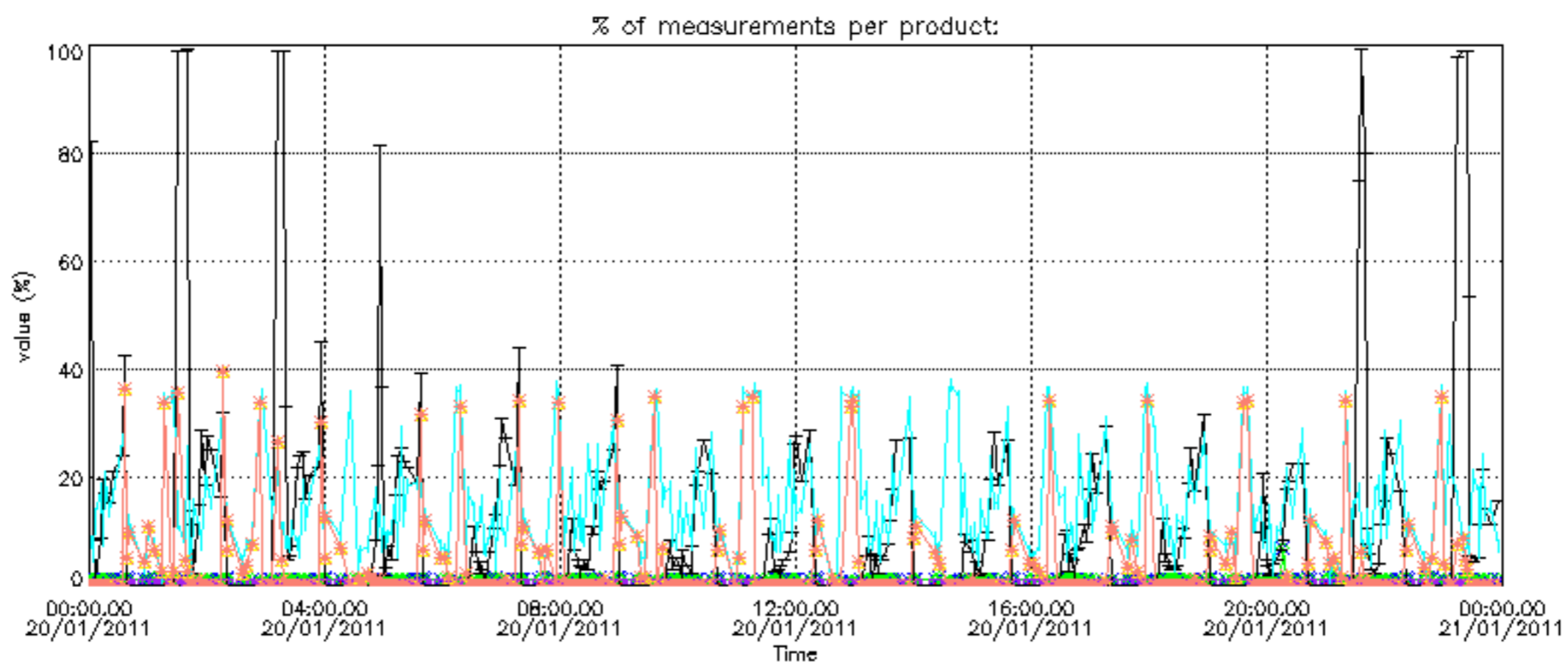
|                 |  |     |                      |
|-----------------|--|-----|----------------------|
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_070304_000060573098_00351_46486_3587.N1  | 102 | 20-JAN-2011 07:14:10 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20110118_220922_20110118_193607_20110128_200945  | 126 | 20-JAN-2011 08:54:24 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_102458_000057383098_00353_46488_3589.N1  | 150 | 20-JAN-2011 10:34:38 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_120555_000057383098_00354_46489_3590.N1  | 173 | 20-JAN-2011 12:14:52 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20110118_220922_20110118_193607_20110128_200945  | 195 | 20-JAN-2011 13:45:42 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_152230_000054193098_00356_46491_3592.N1  | 217 | 20-JAN-2011 15:25:56 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_165809_000057383098_00357_46492_3593.N1  | 240 | 20-JAN-2011 17:06:10 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPK20110120_183347_000057383098_00358_46493_3594.N1  | 261 | 20-JAN-2011 18:39:25 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20110120_201444_000041443098_00359_46494_2363.N1 | 283 | 20-JAN-2011 20:16:21 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20110120_212907_000057383098_00359_46494_2364.N1 | 297 | 20-JAN-2011 21:33:48 |
| ORBIT_DATA_FILE | DOR_NAV_OPNPDE20110120_231004_000057383098_00360_46495_2365.N1 | 320 | 20-JAN-2011 23:14:03 |



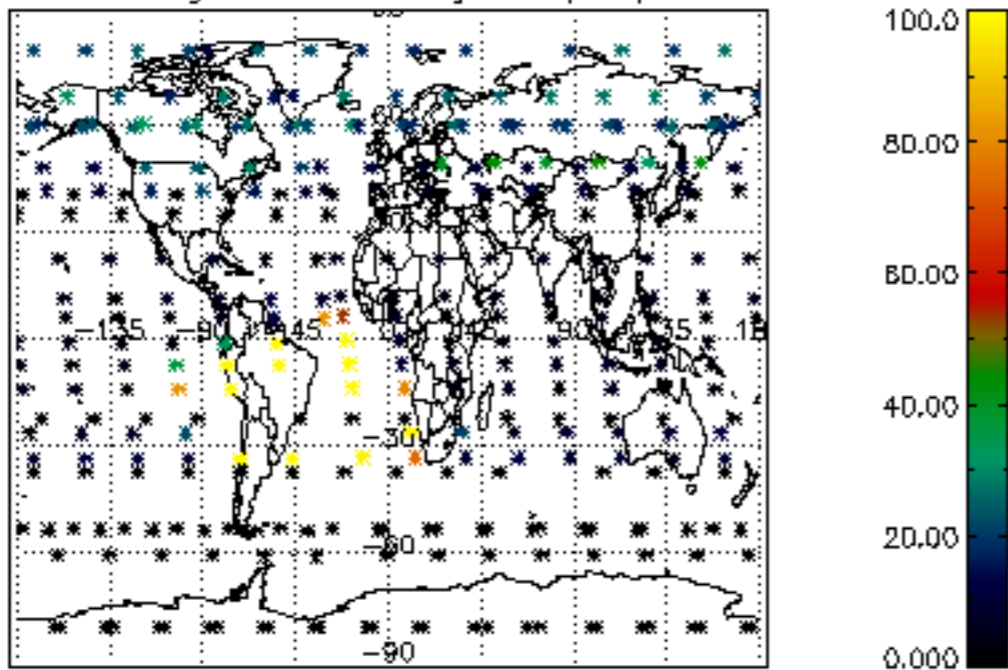




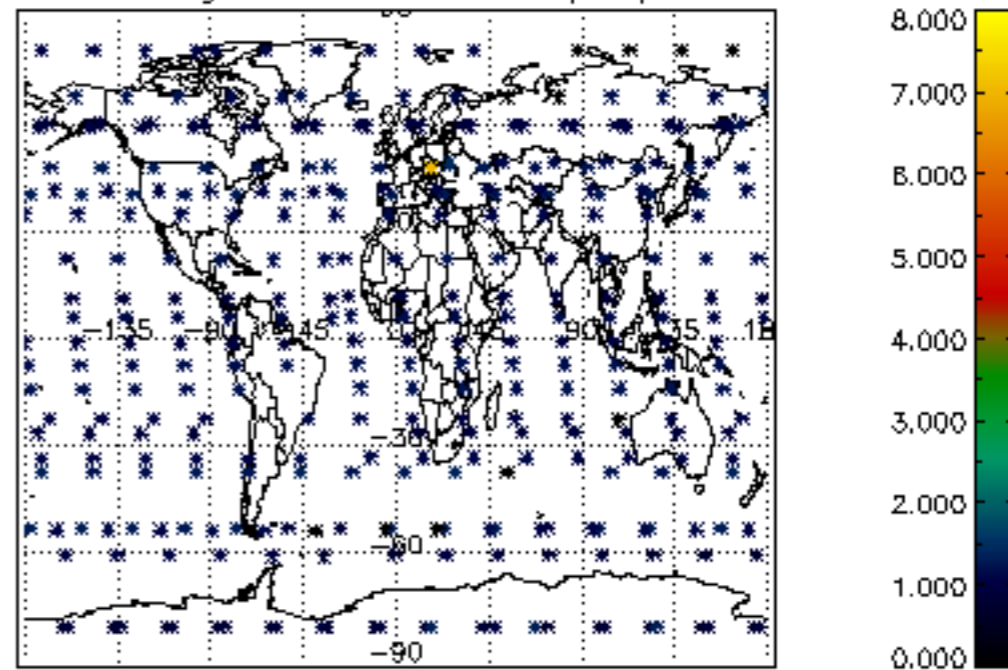




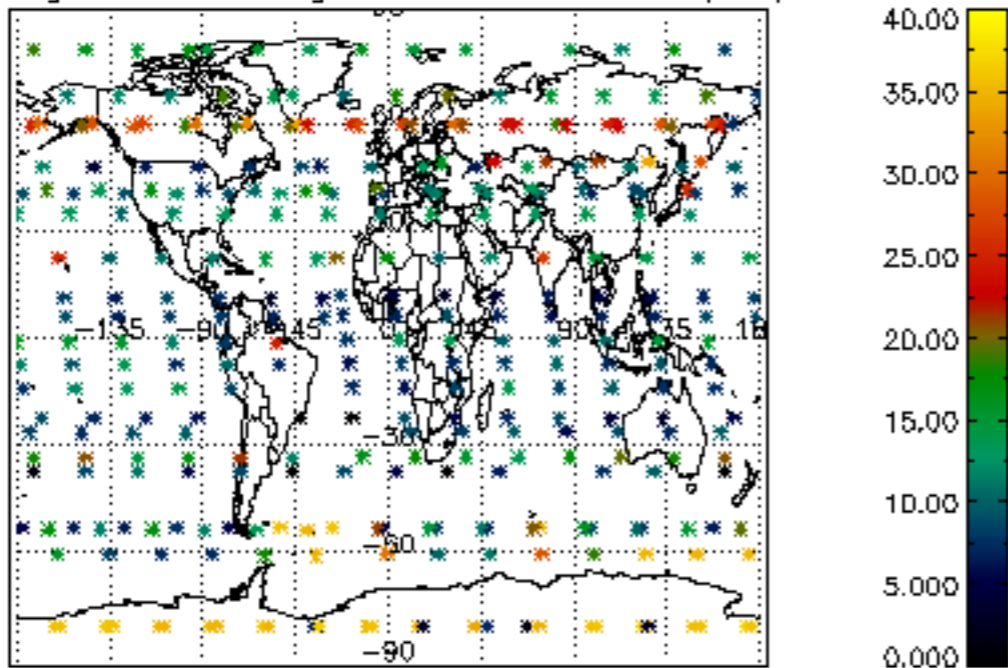
Percentage of cosmic ray hits per profile



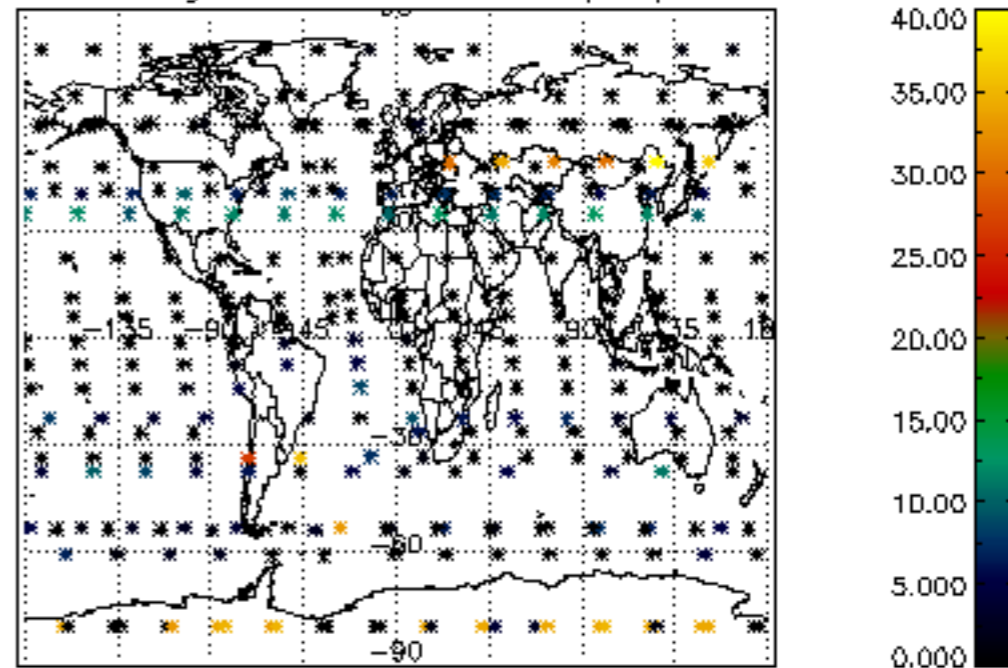
Percentage of datation errors per profile



Percentage of star falling outside central band per profile

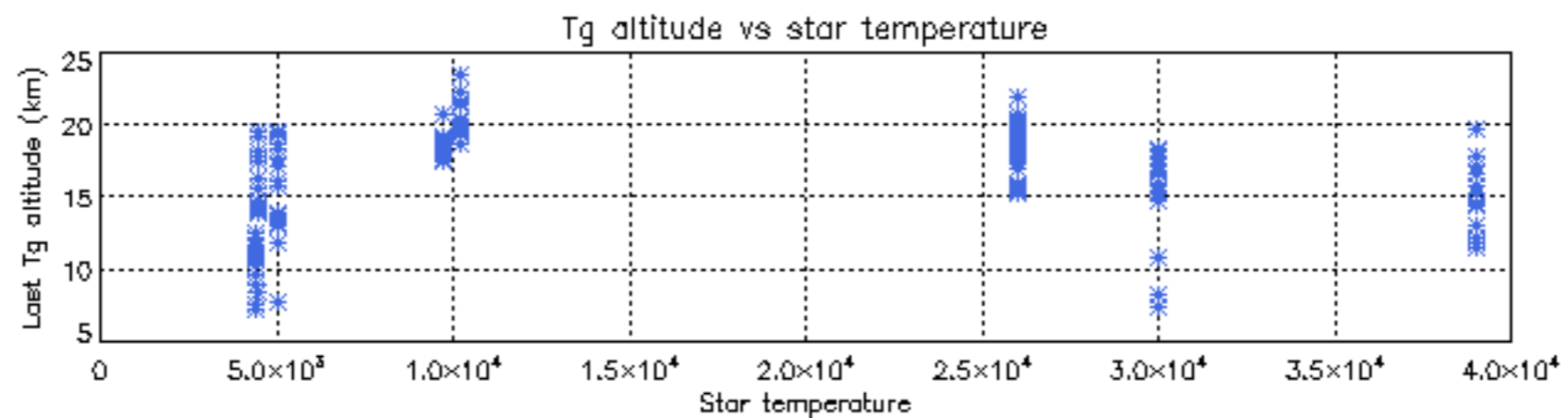
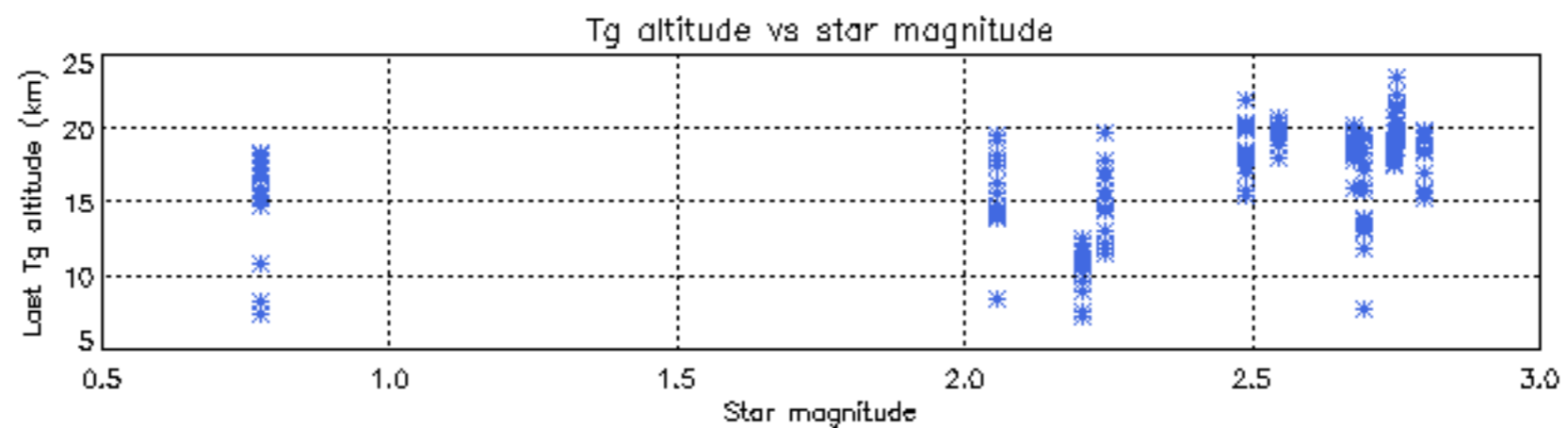
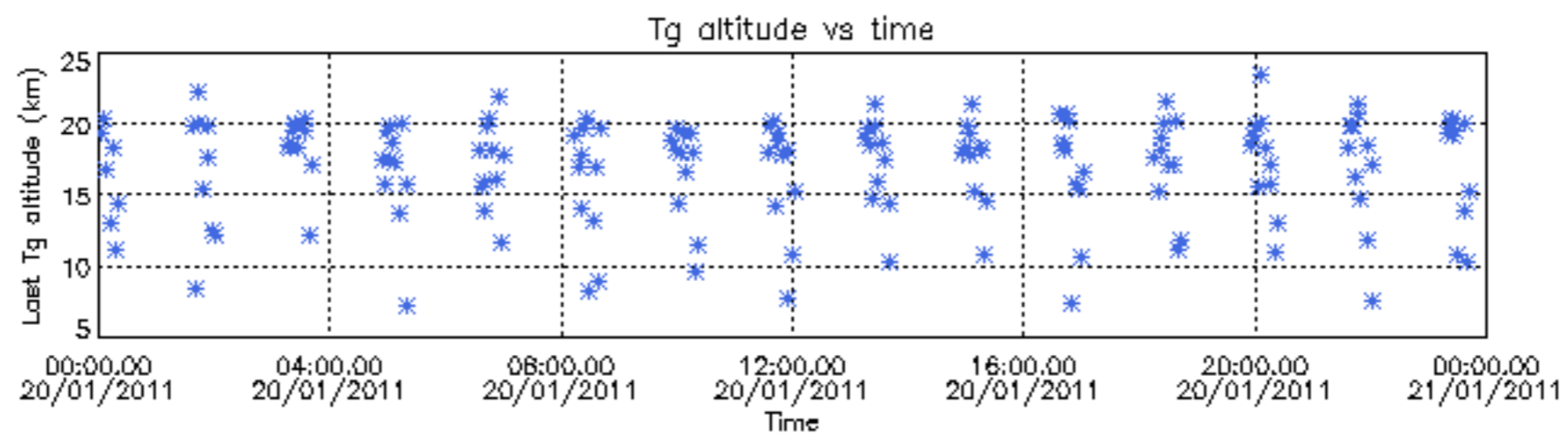


Percentage of saturation errors per profile

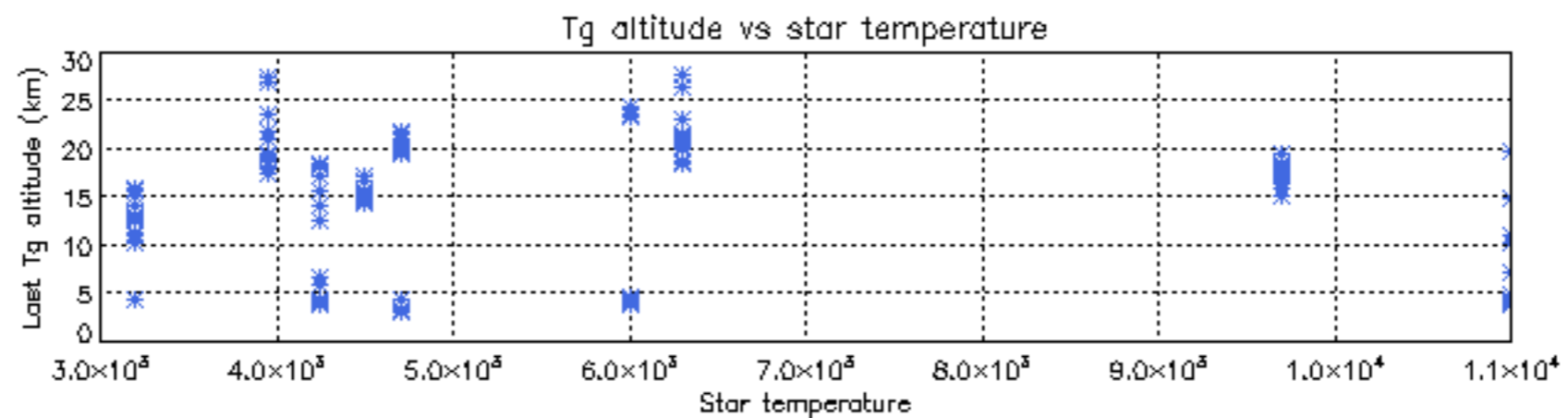
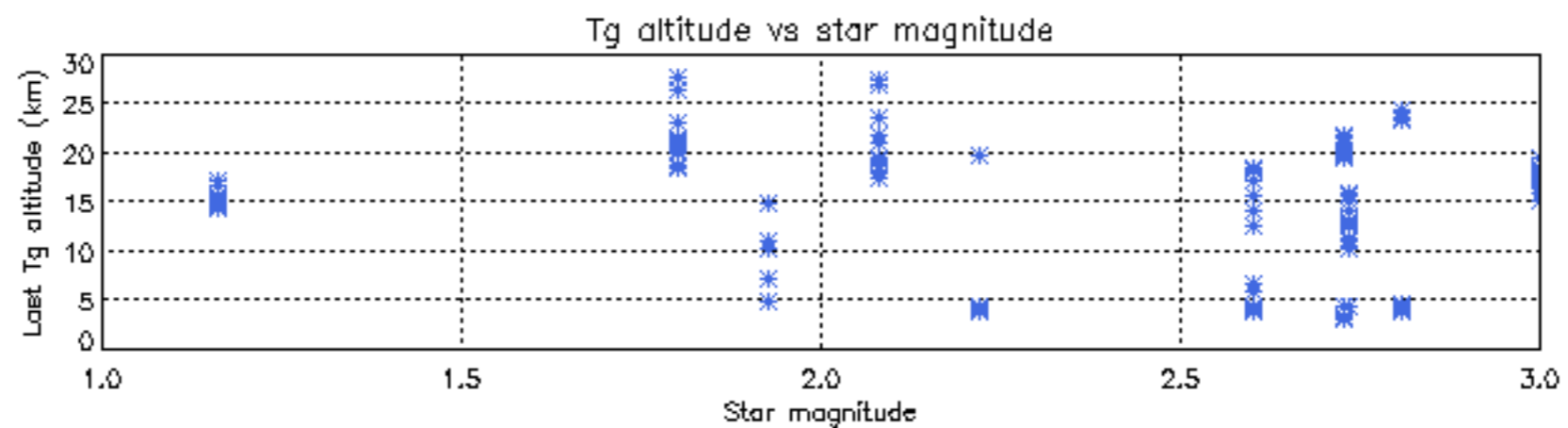
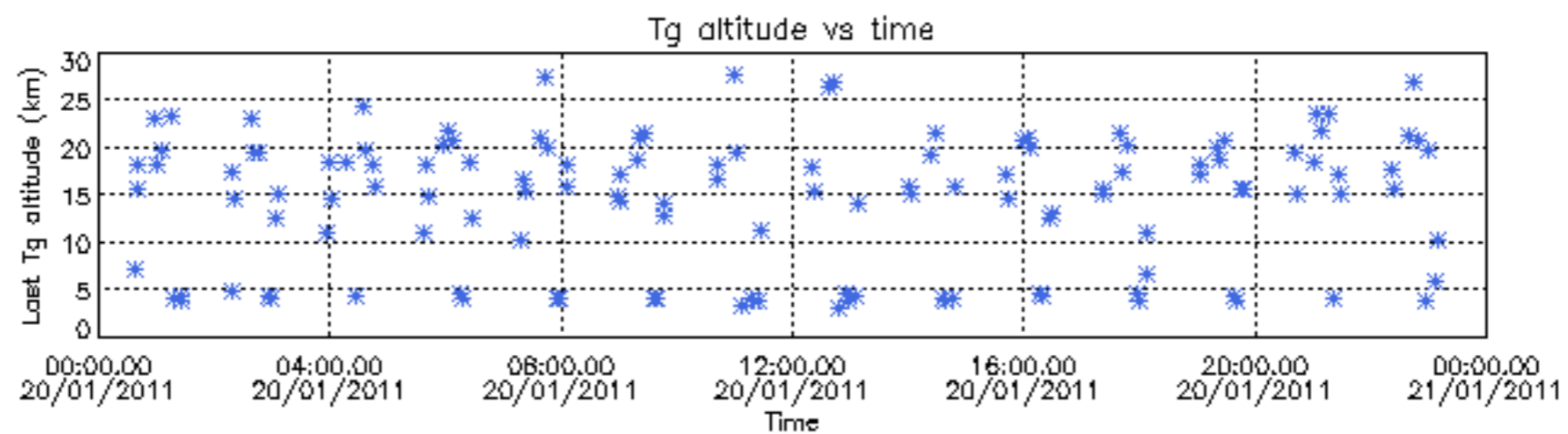




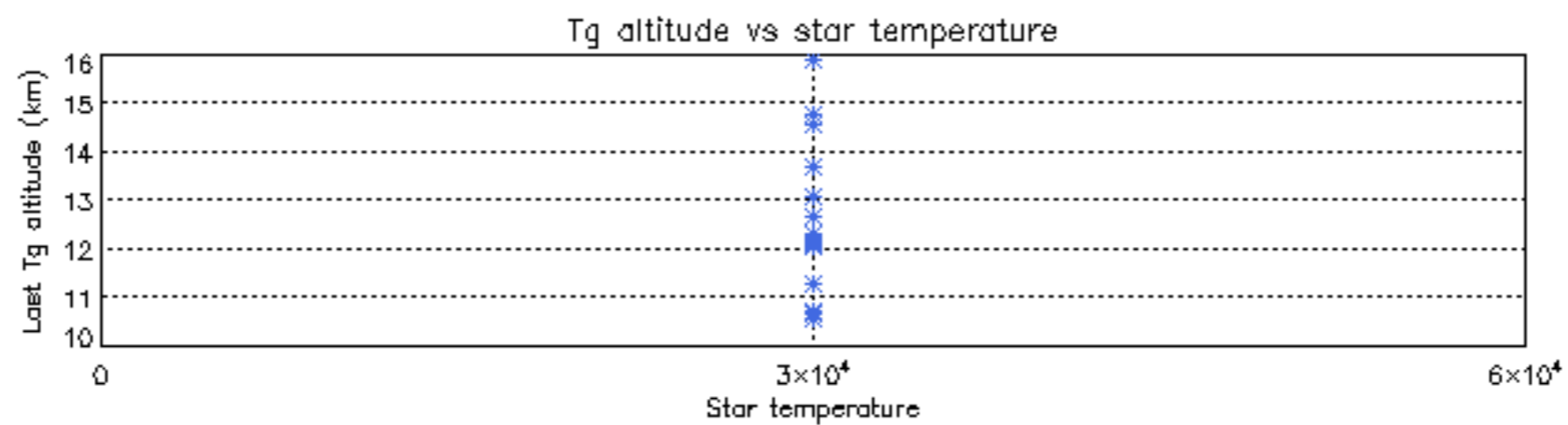
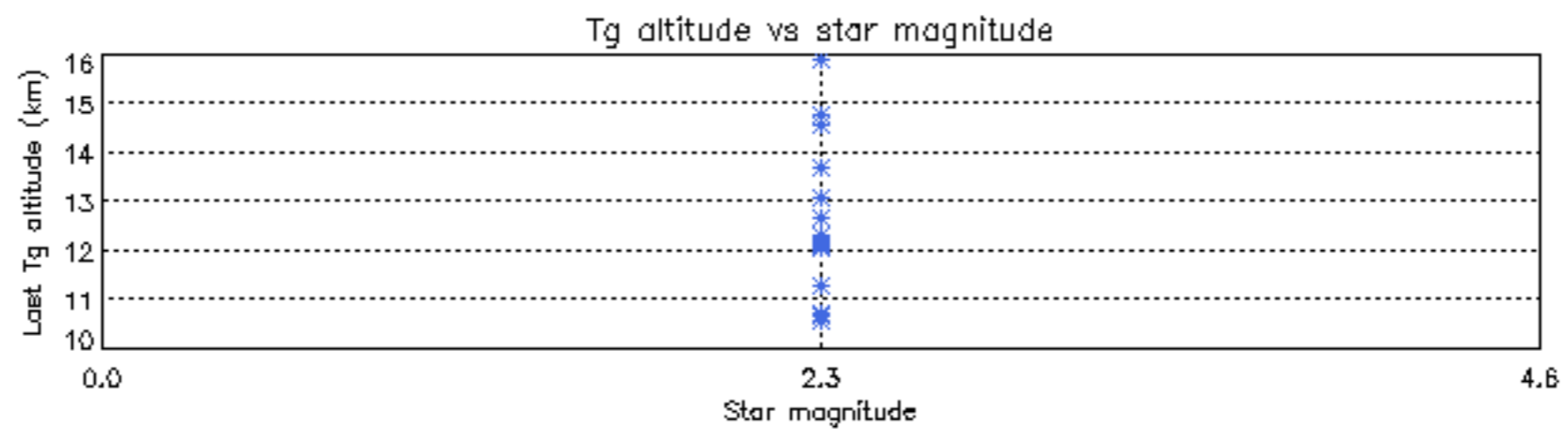
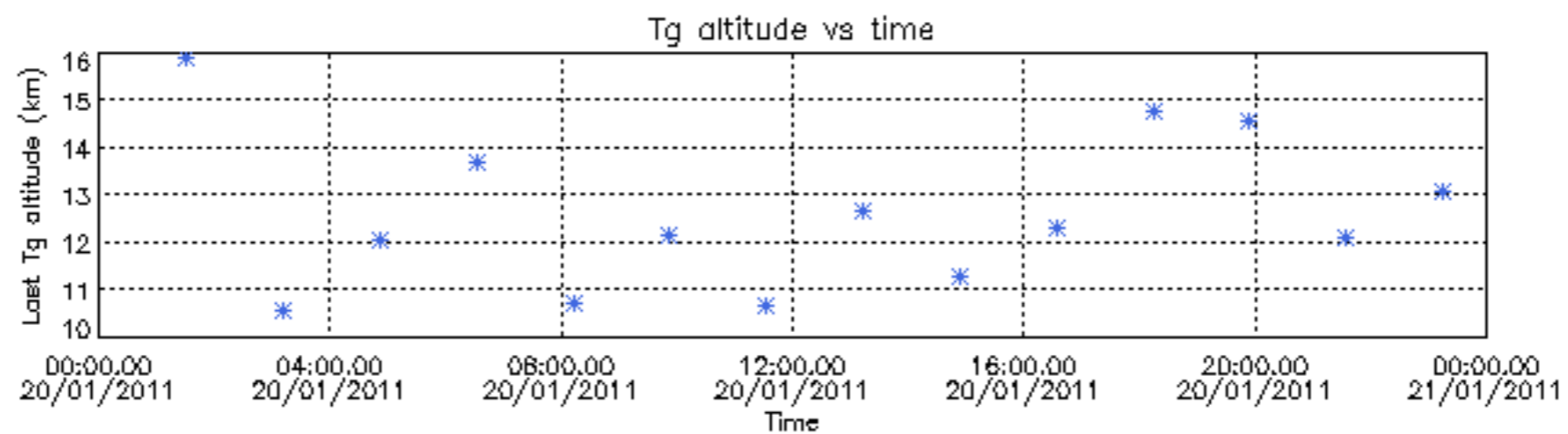
Tangent altitude at which the star is lost



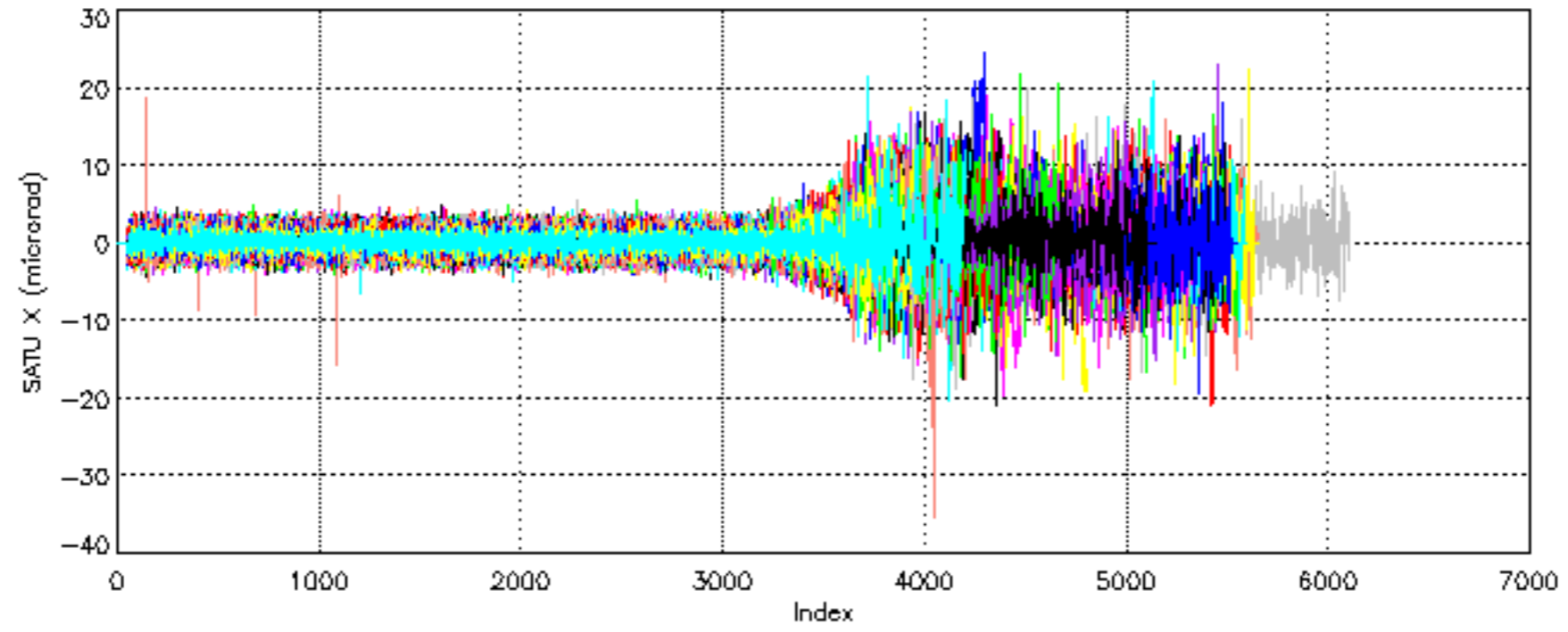
Tangent altitude at which the star is lost

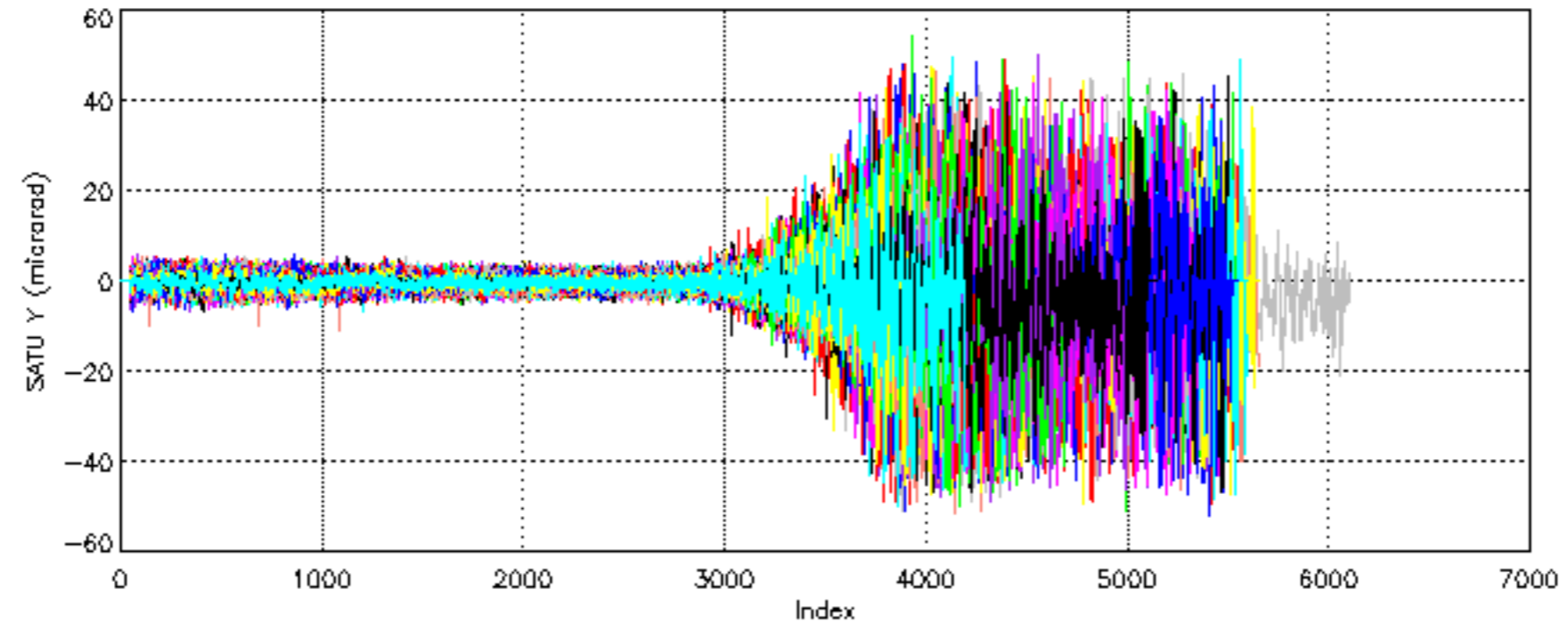


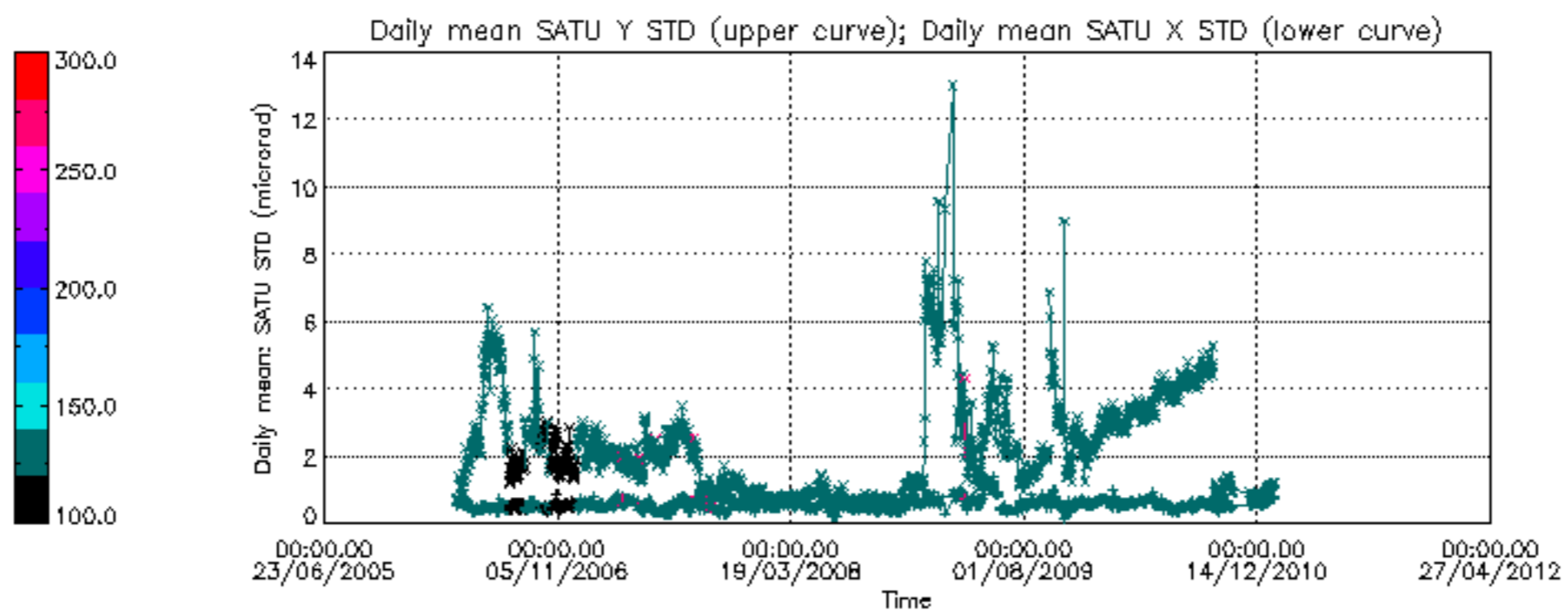
Tangent altitude at which the star is lost













/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110101\_012508\_000094163098\_00074\_46209\_2000.N1

|     |         |             |           |         |   |       |      |           |   |        |        |      |      |    |       |
|-----|---------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1;  | -684.4; | 01-JAN-2011 | 01:25:08; | Dark    | ; | 45.0; | 122; | 9Alp2Lib  | ; | 2.75;  | 9700;  | occ; | 90;  | 0; | 46209 |
| 2;  | -272.2; | 01-JAN-2011 | 01:32:00; | Dark    | ; | 43.0; | 54;  | 5The Cen  | ; | 2.06;  | 4500;  | occ; | 86;  | 0; | 46209 |
| 3;  | -3.0;   | 01-JAN-2011 | 01:36:29; | Dark    | ; | 40.5; | 77;  | Eps Cen   | ; | 2.30;  | 28000; | occ; | 81;  | 0; | 46210 |
| 4;  | 102.2;  | 01-JAN-2011 | 01:38:14; | Dark    | ; | 45.0; | 64;  | Gam Cen   | ; | 2.20;  | 10600; | occ; | 90;  | 0; | 46210 |
| 5;  | 211.5;  | 01-JAN-2011 | 01:40:04; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;     | occ; | 119; | 0; | 46210 |
| 6;  | 470.5;  | 01-JAN-2011 | 01:44:23; | Dark    | ; | 48.0; | 113; | Mu Vel    | ; | 2.69;  | 5000;  | occ; | 96;  | 0; | 46210 |
| 7;  | 623.9;  | 01-JAN-2011 | 01:46:56; | Dark    | ; | 48.5; | 71;  | Iot Car   | ; | 2.25;  | 7700;  | occ; | 97;  | 0; | 46210 |
| 8;  | 738.0;  | 01-JAN-2011 | 01:48:50; | Dark    | ; | 42.5; | 46;  | Del Vel   | ; | 1.95;  | 10600; | occ; | 85;  | 0; | 46210 |
| 9;  | 908.3;  | 01-JAN-2011 | 01:51:41; | Dark    | ; | 48.5; | 34;  | Gam2Vel   | ; | 1.79;  | 23000; | occ; | 97;  | 0; | 46210 |
| 10; | 1039.2; | 01-JAN-2011 | 01:53:52; | Dark    | ; | 49.5; | 70;  | Zet Pup   | ; | 2.25;  | 39000; | occ; | 99;  | 0; | 46210 |
| 11; | 1163.5; | 01-JAN-2011 | 01:55:56; | Dark    | ; | 49.0; | 117; | Pi Pup    | ; | 2.71;  | 3800;  | occ; | 98;  | 0; | 46210 |
| 12; | 1330.9; | 01-JAN-2011 | 01:58:43; | Dark    | ; | 47.0; | 23;  | 21Eps CMa | ; | 1.50;  | 26000; | occ; | 94;  | 0; | 46210 |
| 13; | 1423.0; | 01-JAN-2011 | 02:00:15; | Dark    | ; | 45.0; | 179; | 240mi2CMa | ; | 3.03;  | 24000; | occ; | 90;  | 0; | 46210 |
| 14; | 1570.3; | 01-JAN-2011 | 02:02:43; | Dark    | ; | 53.0; | 1;   | 9Alp CMa  | ; | -1.44; | 11000; | occ; | 106; | 0; | 46210 |
| 15; | 1719.7; | 01-JAN-2011 | 02:05:12; | Dark    | ; | 42.5; | 56;  | 53Kap Ori | ; | 2.07;  | 30000; | occ; | 85;  | 0; | 46210 |
| 16; | 1869.3; | 01-JAN-2011 | 02:07:42; | Dark    | ; | 45.5; | 30;  | 46Eps Ori | ; | 1.69;  | 30000; | occ; | 91;  | 0; | 46210 |
| 17; | 2019.8; | 01-JAN-2011 | 02:10:12; | Dark    | ; | 55.0; | 14;  | 58Alp Ori | ; | 0.87;  | 3000;  | occ; | 110; | 0; | 46210 |
| 18; | 2214.1; | 01-JAN-2011 | 02:13:26; | Dark    | ; | 48.5; | 44;  | 24Gam Gem | ; | 1.93;  | 11000; | occ; | 97;  | 0; | 46210 |
| 19; | 2312.3; | 01-JAN-2011 | 02:15:05; | Bright; | ; | 48.0; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;  | occ; | 96;  | 0; | 46210 |
| 20; | 2551.7; | 01-JAN-2011 | 02:19:04; | Bright; | ; | 39.0; | 107; | 37The Aur | ; | 2.65;  | 11000; | occ; | 78;  | 0; | 46210 |
| 21; | 2677.4; | 01-JAN-2011 | 02:21:10; | Bright; | ; | 40.5; | 6;   | 13Alp Aur | ; | 0.08;  | 3400;  | occ; | 81;  | 0; | 46210 |
| 22; | 3671.8; | 01-JAN-2011 | 02:37:44; | Bright; | ; | 55.0; | 60;  | 7Bet UMi  | ; | 2.08;  | 3950;  | occ; | 110; | 0; | 46210 |
| 23; | 3889.5; | 01-JAN-2011 | 02:41:22; | Bright; | ; | 48.0; | 32;  | 77Eps UMa | ; | 1.76;  | 11000; | occ; | 96;  | 0; | 46210 |
| 24; | 4086.7; | 01-JAN-2011 | 02:44:39; | Bright; | ; | 66.0; | 39;  | 85Eta UMa | ; | 1.85;  | 24000; | occ; | 132; | 0; | 46210 |
| 25; | 4331.1; | 01-JAN-2011 | 02:48:43; | Bright; | ; | 40.0; | 180; | 27Gam Boo | ; | 3.04;  | 8000;  | occ; | 80;  | 0; | 46210 |
| 26; | 4552.2; | 01-JAN-2011 | 02:52:24; | Bright; | ; | 62.0; | 83;  |           | ; | 2.38;  | 11000; | occ; | 124; | 0; | 46210 |
| 27; | 4747.8; | 01-JAN-2011 | 02:55:40; | Bright; | ; | 54.0; | 3;   | 16Alp Boo | ; | -0.05; | 4250;  | occ; | 108; | 0; | 46210 |
| 28; | 4868.3; | 01-JAN-2011 | 02:57:41; | Bright; | ; | 54.0; | 102; | 24Alp Ser | ; | 2.60;  | 4250;  | occ; | 108; | 0; | 46210 |
| 29; | 5171.3; | 01-JAN-2011 | 03:02:44; | Bright; | ; | 56.0; | 104; | 27Bet Lib | ; | 2.61;  | 13100; | occ; | 112; | 0; | 46210 |
| 30; | 5330.2; | 01-JAN-2011 | 03:05:23; | Dark    | ; | 44.5; | 122; | 9Alp2Lib  | ; | 2.75;  | 9700;  | occ; | 89;  | 0; | 46210 |
| 31; | 5742.5; | 01-JAN-2011 | 03:12:15; | Dark    | ; | 49.0; | 54;  | 5The Cen  | ; | 2.06;  | 4500;  | occ; | 98;  | 0; | 46210 |
| 32; | 5907.7; | 01-JAN-2011 | 03:15:00; | Dark    | ; | 40.0; | 95;  | Zet Cen   | ; | 2.55;  | 26000; | occ; | 80;  | 0; | 46210 |
| 33; | 6011.7; | 01-JAN-2011 | 03:16:44; | Dark    | ; | 39.5; | 77;  | Eps Cen   | ; | 2.30;  | 28000; | occ; | 79;  | 0; | 46211 |
| 34; | 6117.0; | 01-JAN-2011 | 03:18:29; | Dark    | ; | 45.0; | 64;  | Gam Cen   | ; | 2.20;  | 10600; | occ; | 90;  | 0; | 46211 |
| 35; | 6226.4; | 01-JAN-2011 | 03:20:19; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;     | occ; | 119; | 0; | 46211 |
| 36; | 6485.7; | 01-JAN-2011 | 03:24:38; | Dark    | ; | 49.0; | 113; | Mu Vel    | ; | 2.69;  | 5000;  | occ; | 98;  | 0; | 46211 |
| 37; | 6638.6; | 01-JAN-2011 | 03:27:11; | Dark    | ; | 42.5; | 71;  | Iot Car   | ; | 2.25;  | 7700;  | occ; | 85;  | 0; | 46211 |
| 38; | 6752.6; | 01-JAN-2011 | 03:29:05; | Dark    | ; | 45.0; | 46;  | Del Vel   | ; | 1.95;  | 10600; | occ; | 90;  | 0; | 46211 |
| 39; | 6923.2; | 01-JAN-2011 | 03:31:56; | Dark    | ; | 46.5; | 34;  | Gam2Vel   | ; | 1.79;  | 23000; | occ; | 93;  | 0; | 46211 |
| 40; | 7054.0; | 01-JAN-2011 | 03:34:06; | Dark    | ; | 45.5; | 70;  | Zet Pup   | ; | 2.25;  | 39000; | occ; | 91;  | 0; | 46211 |
| 41; | 7178.0; | 01-JAN-2011 | 03:36:10; | Dark    | ; | 47.0; | 117; | Pi Pup    | ; | 2.71;  | 3800;  | occ; | 94;  | 0; | 46211 |
| 42; | 7345.3; | 01-JAN-2011 | 03:38:58; | Dark    | ; | 46.0; | 23;  | 21Eps CMa | ; | 1.50;  | 26000; | occ; | 92;  | 0; | 46211 |
| 43; | 7437.3; | 01-JAN-2011 | 03:40:30; | Dark    | ; | 46.0; | 179; | 240mi2CMa | ; | 3.03;  | 24000; | occ; | 92;  | 0; | 46211 |
| 44; | 7584.6; | 01-JAN-2011 | 03:42:57; | Dark    | ; | 53.0; | 1;   | 9Alp CMa  | ; | -1.44; | 11000; | occ; | 106; | 0; | 46211 |
| 45; | 7733.8; | 01-JAN-2011 | 03:45:26; | Dark    | ; | 44.0; | 56;  | 53Kap Ori | ; | 2.07;  | 30000; | occ; | 88;  | 0; | 46211 |
| 46; | 7883.6; | 01-JAN-2011 | 03:47:56; | Dark    | ; | 44.5; | 30;  | 46Eps Ori | ; | 1.69;  | 30000; | occ; | 89;  | 0; | 46211 |
| 47; | 8034.0; | 01-JAN-2011 | 03:50:26; | Dark    | ; | 55.0; | 14;  | 58Alp Ori | ; | 0.87;  | 3000;  | occ; | 110; | 0; | 46211 |
| 48; | 8228.0; | 01-JAN-2011 | 03:53:40; | Dark    | ; | 44.5; | 44;  | 24Gam Gem | ; | 1.93;  | 11000; | occ; | 89;  | 0; | 46211 |
| 49; | 8326.2; | 01-JAN-2011 | 03:55:18; | Bright; | ; | 43.5; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;  | occ; | 87;  | 0; | 46211 |
| 50; | 8565.6; | 01-JAN-2011 | 03:59:18; | Bright; | ; | 38.5; | 107; | 37The Aur | ; | 2.65;  | 11000; | occ; | 77;  | 0; | 46211 |
| 51; | 8691.4; | 01-JAN-2011 | 04:01:24; | Bright; | ; | 41.0; | 6;   | 13Alp Aur | ; | 0.08;  | 3400;  | occ; | 82;  | 0; | 46211 |

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110101\_041758\_000060253098\_00076\_46211\_2001.N1

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|-----|----------|-------------|-----------|---------|---|-------|------|-----------|---|--------|--------|------|------|----|-------|
| 1;  | -2342.4; | 01-JAN-2011 | 04:17:58; | Bright; | ; | 39.0; | 60;  | 7Bet UMi  | ; | 2.08;  | 3950;  | occ; | 78;  | 0; | 46211 |
| 2;  | -2124.9; | 01-JAN-2011 | 04:21:36; | Bright; | ; | 47.5; | 32;  | 77Eps UMa | ; | 1.76;  | 11000; | occ; | 95;  | 0; | 46211 |
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| 4;  | -1683.0; | 01-JAN-2011 | 04:28:57; | Bright; | ; | 42.5; | 180; | 27Gam Boo | ; | 3.04;  | 8000;  | occ; | 85;  | 0; | 46211 |
| 5;  | -1461.7; | 01-JAN-2011 | 04:32:39; | Bright; | ; | 44.0; | 83;  |           | ; | 2.38;  | 11000; | occ; | 88;  | 0; | 46211 |
| 6;  | -1265.7; | 01-JAN-2011 | 04:35:55; | Bright; | ; | 54.0; | 3;   | 16Alp Boo | ; | -0.05; | 4250;  | occ; | 108; | 0; | 46211 |
| 7;  | -1145.5; | 01-JAN-2011 | 04:37:55; | Bright; | ; | 54.0; | 102; | 24Alp Ser | ; | 2.60;  | 4250;  | occ; | 108; | 0; | 46211 |
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| 10; | -270.8;  | 01-JAN-2011 | 04:52:30; | Dark    | ; | 47.0; | 54;  | 5The Cen  | ; | 2.06;  | 4500;  | occ; | 94;  | 0; | 46211 |
| 11; | -105.9;  | 01-JAN-2011 | 04:55:15; | Dark    | ; | 41.5; | 95;  | Zet Cen   | ; | 2.55;  | 26000; | occ; | 83;  | 0; | 46211 |
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22; 1423.6; 01-JAN-2011 05:20:44; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46212
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19; 2210.2; 01-JAN-2011 23:56:25; Dark ; 50.5; 44; 24Gam Gem ; 1.93; 11000;occ; 101; 0;46223
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27; 4557.6; 02-JAN-2011 22:18:35; Bright; 64.0; 83; ; 2.38; 11000;occ; 128; 0;46236
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110102\_130740\_000058243098\_00096\_46231\_3072.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110102\_144433\_000058623098\_00097\_46232\_3073.N1

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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110103\_001158\_000058843098\_00102\_46237\_2012.N1

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 9; 639.3; 03-JAN-2011 02:13:58; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46239  
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 28; 2675.5; 03-JAN-2011 04:28:08; Bright; 40.5; 6; 13Alp Aur ; 0.08; 3400;occ; 81; 0;46240  
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 19; 4880.8; 03-JAN-2011 21:47:14; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;46250  
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23; 3871.6; 03-JAN-2011 23:10:39; Bright; 37.0; 32; 77Eps UMa ; 1.76; 11000;occ; 74; 0;46251
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27; 4560.8; 03-JAN-2011 23:22:08; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;46251
28; 4766.1; 03-JAN-2011 23:25:33; Bright; 26.0; 3; 16Alp Boo ; -0.05; 4250;occ; 52; 0;46251
29; 4881.2; 03-JAN-2011 23:27:28; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;46251
30; 5190.8; 03-JAN-2011 23:32:38; Bright; 58.0; 104; 27Bet Lib ; 2.61; 13100;occ; 116; 0;46251
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23; 6518.1; 03-JAN-2011 17:13:49; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46248  
24; 6658.2; 03-JAN-2011 17:16:09; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46248  
25; 6772.3; 03-JAN-2011 17:18:03; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46248  
26; 6941.6; 03-JAN-2011 17:20:53; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;46248  
27; 7072.2; 03-JAN-2011 17:23:03; Dark ; 48.0; 70; Zet Pup ; 2.25; 39000;occ; 96; 0;46248

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110103\_172351\_000058433098\_00113\_46248\_3085.N1

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2; 1177.1; 03-JAN-2011 17:25:02; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;46248  
3; 1341.0; 03-JAN-2011 17:27:46; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;46248  
4; 1431.5; 03-JAN-2011 17:29:17; Dark ; 43.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 86; 0;46248  
5; 1575.2; 03-JAN-2011 17:31:40; Dark ; 47.5; 1; 9Alp CMa ;-1.44; 11000;occ; 95; 0;46248  
6; 2018.6; 03-JAN-2011 17:39:04; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46248  
7; 2202.9; 03-JAN-2011 17:42:08; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;46248  
8; 2302.1; 03-JAN-2011 17:43:47; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;46248  
9; 2543.2; 03-JAN-2011 17:47:48; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46248  
10; 2676.1; 03-JAN-2011 17:50:01; Bright; 39.0; 42; 34Bet Aur ; 1.90; 10200;occ; 78; 0;46248  
11; 3667.7; 03-JAN-2011 18:06:33; Bright; 38.0; 60; 7Bet UMi ; 2.08; 3950;occ; 76; 0;46248  
12; 3873.0; 03-JAN-2011 18:09:58; Bright; 41.0; 32; 77Eps UMa ; 1.76; 11000;occ; 82; 0;46248  
13; 3936.7; 03-JAN-2011 18:11:02; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;46248  
14; 4078.2; 03-JAN-2011 18:13:23; Bright; 44.5; 39; 85Eta UMa ; 1.85; 24000;occ; 89; 0;46248  
15; 4332.0; 03-JAN-2011 18:17:37; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;46248  
16; 4560.2; 03-JAN-2011 18:21:25; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46248  
17; 4765.0; 03-JAN-2011 18:24:50; Bright; 35.0; 3; 16Alp Boo ;-0.05; 4250;occ; 70; 0;46248  
18; 4880.2; 03-JAN-2011 18:26:45; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46248  
19; 5189.6; 03-JAN-2011 18:31:55; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46248  
20; 5353.9; 03-JAN-2011 18:34:39; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;46248  
21; 5771.0; 03-JAN-2011 18:41:36; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;46248  
22; 5931.9; 03-JAN-2011 18:44:17; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46248  
23; 6034.0; 03-JAN-2011 18:45:59; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46249  
24; 6148.4; 03-JAN-2011 18:47:54; Dark ; 46.5; 64; Gam Cen ; 2.20; 10600;occ; 93; 0;46249  
25; 6261.9; 03-JAN-2011 18:49:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46249  
26; 6519.1; 03-JAN-2011 18:54:04; Dark ; 47.5; 113; Mu Vel ; 2.69; 5000;occ; 95; 0;46249  
27; 6658.8; 03-JAN-2011 18:56:24; Dark ; 51.0; 71; Iot Car ; 2.25; 7700;occ; 102; 0;46249  
28; 6772.9; 03-JAN-2011 18:58:18; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;46249  
29; 6942.2; 03-JAN-2011 19:01:07; Dark ; 6.5; 34; Gam2Vel ; 1.79; 23000;occ; 13; 0;46249

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110104\_011538\_000093833098\_00117\_46252\_2019.N1

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2; -240.0; 04-JAN-2011 01:22:35; Dark ; 52.0; 54; 5The Cen ; 2.06; 4500;occ; 104; 0;46252  
3; -79.8; 04-JAN-2011 01:25:15; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46252  
4; 22.1; 04-JAN-2011 01:26:57; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46253  
5; 137.7; 04-JAN-2011 01:28:53; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46253  
6; 251.5; 04-JAN-2011 01:30:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46253  
7; 508.4; 04-JAN-2011 01:35:04; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;46253  
8; 646.7; 04-JAN-2011 01:37:22; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46253  
9; 760.7; 04-JAN-2011 01:39:16; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;46253  
10; 929.8; 04-JAN-2011 01:42:05; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46253  
11; 1060.3; 04-JAN-2011 01:44:16; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46253  
12; 1178.8; 04-JAN-2011 01:46:14; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46253  
13; 1342.1; 04-JAN-2011 01:48:57; Dark ; 46.5; 23; 21Eps CMa ; 1.50; 26000;occ; 93; 0;46253  
14; 1432.5; 04-JAN-2011 01:50:28; Dark ; 43.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 86; 0;46253



15; 1575.6; 04-JAN-2011 01:52:51; Dark ; 48.0; 1; 9Alp CMA ; -1.44; 11000;occ; 96; 0;46253  
 16; 2018.4; 04-JAN-2011 02:00:14; Dark ; 53.5; 14; 58Alp Ori ; 0.87; 3000;occ; 107; 0;46253  
 17; 2201.8; 04-JAN-2011 02:03:17; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;46253  
 18; 2300.6; 04-JAN-2011 02:04:56; Bright; 46.0; 151; 13Mu Gem ; 2.89; 3000;occ; 92; 0;46253  
 19; 2542.1; 04-JAN-2011 02:08:57; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46253  
 20; 2675.1; 04-JAN-2011 02:11:10; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46253  
 21; 3667.2; 04-JAN-2011 02:27:42; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46253  
 22; 3870.9; 04-JAN-2011 02:31:06; Bright; 34.0; 32; 77Eps UMa ; 1.76; 11000;occ; 68; 0;46253  
 23; 3935.0; 04-JAN-2011 02:32:10; Bright; 48.0; 55; 79Zet UMa ; 2.06; 10200;occ; 96; 0;46253  
 24; 4077.0; 04-JAN-2011 02:34:32; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46253  
 25; 4332.0; 04-JAN-2011 02:38:47; Bright; 42.0; 180; 27Gam Boo ; 3.04; 8000;occ; 84; 0;46253  
 26; 4561.3; 04-JAN-2011 02:42:36; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;46253  
 27; 4881.8; 04-JAN-2011 02:47:57; Bright; 36.5; 102; 24Alp Ser ; 2.60; 4250;occ; 73; 0;46253  
 28; 5192.0; 04-JAN-2011 02:53:07; Bright; 47.5; 104; 27Bet Lib ; 2.61; 13100;occ; 95; 0;46253  
 29; 5357.1; 04-JAN-2011 02:55:52; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46253  
 30; 5774.6; 04-JAN-2011 03:02:50; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;46253  
 31; 6036.7; 04-JAN-2011 03:07:12; Dark ; 39.0; 77; Eps Cen ; 2.30; 28000;occ; 78; 0;46254  
 32; 6152.7; 04-JAN-2011 03:09:08; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46254  
 33; 6266.4; 04-JAN-2011 03:11:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46254  
 34; 6523.3; 04-JAN-2011 03:15:19; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;46254  
 35; 6661.2; 04-JAN-2011 03:17:36; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46254  
 36; 6775.4; 04-JAN-2011 03:19:31; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;46254  
 37; 6944.4; 04-JAN-2011 03:22:20; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;46254  
 38; 7074.9; 04-JAN-2011 03:24:30; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;46254  
 39; 7193.0; 04-JAN-2011 03:26:28; Dark ; 51.0; 117; Pi Pup ; 2.71; 3800;occ; 102; 0;46254  
 40; 7356.7; 04-JAN-2011 03:29:12; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46254  
 41; 7446.9; 04-JAN-2011 03:30:42; Dark ; 42.5; 179; 24Omi2CMA ; 3.03; 24000;occ; 85; 0;46254  
 42; 7589.9; 04-JAN-2011 03:33:05; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;46254  
 43; 8032.5; 04-JAN-2011 03:40:28; Dark ; 50.0; 14; 58Alp Ori ; 0.87; 3000;occ; 100; 0;46254  
 44; 8215.3; 04-JAN-2011 03:43:31; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;46254  
 45; 8314.5; 04-JAN-2011 03:45:10; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;46254  
 46; 8556.1; 04-JAN-2011 03:49:11; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46254  
 47; 8688.9; 04-JAN-2011 03:51:24; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46254

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110104\_054822\_000060403098\_00120\_46255\_2021.N1

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 2; -2144.1; 04-JAN-2011 05:51:33; Bright; 30.0; 32; 77Eps UMa ; 1.76; 11000;occ; 60; 0;46255  
 3; -2079.8; 04-JAN-2011 05:52:38; Bright; 44.5; 55; 79Zet UMa ; 2.06; 10200;occ; 89; 0;46255  
 4; -1937.5; 04-JAN-2011 05:55:00; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46255  
 5; -1682.0; 04-JAN-2011 05:59:15; Bright; 59.5; 180; 27Gam Boo ; 3.04; 8000;occ; 119; 0;46255  
 6; -1452.3; 04-JAN-2011 06:03:05; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46255  
 7; -1131.6; 04-JAN-2011 06:08:26; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46255  
 8; -820.9; 04-JAN-2011 06:13:36; Bright; 56.0; 104; 27Bet Lib ; 2.61; 13100;occ; 112; 0;46255  
 9; -655.5; 04-JAN-2011 06:16:22; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46255  
 10; -237.8; 04-JAN-2011 06:23:20; Dark ; 45.5; 54; 5The Cen ; 2.06; 4500;occ; 91; 0;46255  
 11; -77.9; 04-JAN-2011 06:26:00; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46255  
 12; 24.0; 04-JAN-2011 06:27:41; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46256  
 13; 140.2; 04-JAN-2011 06:29:38; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46256  
 14; 254.3; 04-JAN-2011 06:31:32; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46256  
 15; 511.2; 04-JAN-2011 06:35:49; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46256  
 16; 648.3; 04-JAN-2011 06:38:06; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46256  
 17; 762.4; 04-JAN-2011 06:40:00; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46256  
 18; 931.6; 04-JAN-2011 06:42:49; Dark ; 46.0; 34; Gam2Vel ; 1.79; 23000;occ; 92; 0;46256  
 19; 1061.8; 04-JAN-2011 06:44:59; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46256  
 20; 1179.7; 04-JAN-2011 06:46:57; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;46256  
 21; 1343.1; 04-JAN-2011 06:49:40; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;46256  
 22; 1433.2; 04-JAN-2011 06:51:11; Dark ; 41.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 82; 0;46256  
 23; 1576.3; 04-JAN-2011 06:53:34; Dark ; 49.5; 1; 9Alp CMA ; -1.44; 11000;occ; 99; 0;46256  
 24; 2018.5; 04-JAN-2011 07:00:56; Dark ; 51.0; 14; 58Alp Ori ; 0.87; 3000;occ; 102; 0;46256  
 25; 2201.0; 04-JAN-2011 07:03:58; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;46256  
 26; 2300.1; 04-JAN-2011 07:05:37; Bright; 47.0; 151; 13Mu Gem ; 2.89; 3000;occ; 94; 0;46256  
 27; 2541.6; 04-JAN-2011 07:09:39; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46256  
 28; 2674.5; 04-JAN-2011 07:11:52; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;46256  
 29; 3666.8; 04-JAN-2011 07:28:24; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46256

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110104\_200445\_000042623098\_00129\_46264\_2022.N1

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 3; 1182.3; 04-JAN-2011 20:08:52; Dark ; 51.5; 117; Pi Pup ; 2.71; 3800;occ; 103; 0;46264  
 4; 1345.0; 04-JAN-2011 20:11:35; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;46264



5; 1434.7; 04-JAN-2011 20:13:04; Dark ; 45.0; 179; 240mi2CMA ; 3.03; 24000;occ; 90; 0;46264  
6; 1577.2; 04-JAN-2011 20:15:27; Dark ; 48.0; 1; 9Alp CMA ;-1.44; 11000;occ; 96; 0;46264  
7; 2018.0; 04-JAN-2011 20:22:48; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;46264  
8; 2198.5; 04-JAN-2011 20:25:48; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;46264  
9; 2298.1; 04-JAN-2011 20:27:28; Bright; 43.5; 151; 13Mu Gem ; 2.89; 3000;occ; 87; 0;46264  
10; 2540.1; 04-JAN-2011 20:31:30; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;46264  
11; 2672.8; 04-JAN-2011 20:33:42; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46264  
12; 3665.9; 04-JAN-2011 20:50:15; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;46264  
13; 3930.7; 04-JAN-2011 20:54:40; Bright; 48.0; 55; 79Zet UMa ; 2.06; 10200;occ; 96; 0;46264  
14; 4074.3; 04-JAN-2011 20:57:04; Bright; 44.0; 39; 85Eta UMa ; 1.85; 24000;occ; 88; 0;46264  
15; 4332.3; 04-JAN-2011 21:01:22; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;46264  
16; 4563.7; 04-JAN-2011 21:05:13; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;46264  
17; 4885.5; 04-JAN-2011 21:10:35; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46264  
18; 5197.6; 04-JAN-2011 21:15:47; Bright; 0.5; 104; 27Bet Lib ; 2.61; 13100;occ; 1; 0;46264

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDE20110104\_211547\_000060643098\_00129\_46264\_2023.N1

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3; -230.7; 04-JAN-2011 21:25:33; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;46264  
4; -71.9; 04-JAN-2011 21:28:12; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46264  
5; 29.4; 04-JAN-2011 21:29:53; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46265  
6; 147.6; 04-JAN-2011 21:31:51; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46265  
7; 262.7; 04-JAN-2011 21:33:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46265  
8; 518.7; 04-JAN-2011 21:38:02; Dark ; 56.0; 113; Mu Vel ; 2.69; 5000;occ; 112; 0;46265  
9; 652.9; 04-JAN-2011 21:40:16; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46265  
10; 766.8; 04-JAN-2011 21:42:10; Dark ; 48.0; 46; Del Vel ; 1.95; 10600;occ; 96; 0;46265  
11; 935.6; 04-JAN-2011 21:44:59; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;46265  
12; 1066.1; 04-JAN-2011 21:47:10; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46265  
13; 1182.4; 04-JAN-2011 21:49:06; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46265  
14; 1345.2; 04-JAN-2011 21:51:49; Dark ; 46.5; 23; 21Eps CMA ; 1.50; 26000;occ; 93; 0;46265  
15; 1434.6; 04-JAN-2011 21:53:18; Dark ; 46.0; 179; 240mi2CMA ; 3.03; 24000;occ; 92; 0;46265  
16; 1577.1; 04-JAN-2011 21:55:41; Dark ; 50.5; 1; 9Alp CMA ;-1.44; 11000;occ; 101; 0;46265  
17; 2018.1; 04-JAN-2011 22:03:02; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;46265  
18; 2198.2; 04-JAN-2011 22:06:02; Dark ; 49.0; 44; 24Gam Gem ; 1.93; 11000;occ; 98; 0;46265  
19; 2297.8; 04-JAN-2011 22:07:41; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46265  
20; 2539.8; 04-JAN-2011 22:11:43; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46265  
21; 2672.5; 04-JAN-2011 22:13:56; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46265  
22; 3665.6; 04-JAN-2011 22:30:29; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;46265  
23; 3930.5; 04-JAN-2011 22:34:54; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;46265  
24; 4074.0; 04-JAN-2011 22:37:18; Bright; 69.0; 39; 85Eta UMa ; 1.85; 24000;occ; 138; 0;46265  
25; 4332.2; 04-JAN-2011 22:41:36; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;46265  
26; 4563.9; 04-JAN-2011 22:45:27; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46265  
27; 4885.6; 04-JAN-2011 22:50:49; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;46265  
28; 5198.1; 04-JAN-2011 22:56:02; Bright; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;46265

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110104\_073147\_000037703098\_00121\_46256\_3087.N1

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2; -2080.2; 04-JAN-2011 07:32:51; Bright; 47.0; 55; 79Zet UMa ; 2.06; 10200;occ; 94; 0;46256  
3; -1937.7; 04-JAN-2011 07:35:14; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;46256  
4; -1681.8; 04-JAN-2011 07:39:30; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;46256  
5; -1452.1; 04-JAN-2011 07:43:19; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46256  
6; -1131.2; 04-JAN-2011 07:48:40; Bright; 55.0; 102; 24Alp Ser ; 2.60; 4250;occ; 110; 0;46256  
7; -820.6; 04-JAN-2011 07:53:51; Bright; 39.5; 104; 27Bet Lib ; 2.61; 13100;occ; 79; 0;46256  
8; -654.9; 04-JAN-2011 07:56:37; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46256  
9; -236.7; 04-JAN-2011 08:03:35; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;46256  
10; -77.3; 04-JAN-2011 08:06:14; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46256  
11; 24.5; 04-JAN-2011 08:07:56; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46257  
12; 141.1; 04-JAN-2011 08:09:53; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;46257  
13; 255.2; 04-JAN-2011 08:11:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46257  
14; 512.0; 04-JAN-2011 08:16:03; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46257  
15; 648.9; 04-JAN-2011 08:18:20; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46257  
16; 762.9; 04-JAN-2011 08:20:14; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;46257  
17; 931.9; 04-JAN-2011 08:23:03; Dark ; 45.0; 34; Gam2Vel ; 1.79; 23000;occ; 90; 0;46257  
18; 1062.4; 04-JAN-2011 08:25:14; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46257  
19; 1180.1; 04-JAN-2011 08:27:11; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46257  
20; 1343.4; 04-JAN-2011 08:29:55; Dark ; 47.5; 23; 21Eps CMA ; 1.50; 26000;occ; 95; 0;46257  
21; 1433.5; 04-JAN-2011 08:31:25; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46257  
22; 1576.4; 04-JAN-2011 08:33:48; Dark ; 49.0; 1; 9Alp CMA ;-1.44; 11000;occ; 98; 0;46257

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2; 2018.4; 04-JAN-2011 08:41:10; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46257  
3; 2200.8; 04-JAN-2011 08:44:12; Dark ; 40.5; 44; 24Gam Gem ; 1.93; 11000;occ; 81; 0;46257  
4; 2299.8; 04-JAN-2011 08:45:51; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;46257  
5; 2541.5; 04-JAN-2011 08:49:53; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46257  
6; 2674.4; 04-JAN-2011 08:52:06; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;46257  
7; 3666.8; 04-JAN-2011 09:08:38; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46257  
8; 3869.0; 04-JAN-2011 09:12:00; Bright; 27.0; 32; 77Eps UMa ; 1.76; 11000;occ; 54; 0;46257  
9; 3933.6; 04-JAN-2011 09:13:05; Bright; 46.0; 55; 79Zet UMa ; 2.06; 10200;occ; 92; 0;46257  
10; 4076.1; 04-JAN-2011 09:15:28; Bright; 68.0; 39; 85Eta UMa ; 1.85; 24000;occ; 136; 0;46257  
11; 4332.1; 04-JAN-2011 09:19:44; Bright; 50.5; 180; 27Gam Boo ; 3.04; 8000;occ; 101; 0;46257  
12; 4562.2; 04-JAN-2011 09:23:34; Bright; 43.0; 83; ; 2.38; 11000;occ; 86; 0;46257  
13; 4883.1; 04-JAN-2011 09:28:55; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;46257  
14; 5194.0; 04-JAN-2011 09:34:05; Bright; 54.0; 104; 27Bet Lib ; 2.61; 13100;occ; 108; 0;46257  
15; 5359.9; 04-JAN-2011 09:36:51; Dark ; 44.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 89; 0;46257  
16; 5777.9; 04-JAN-2011 09:43:49; Dark ; 44.5; 54; 5The Cen ; 2.06; 4500;occ; 89; 0;46257  
17; 5937.5; 04-JAN-2011 09:46:29; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46257  
18; 6039.2; 04-JAN-2011 09:48:11; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46258  
19; 6155.9; 04-JAN-2011 09:50:07; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46258  
20; 6270.1; 04-JAN-2011 09:52:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46258  
21; 6526.7; 04-JAN-2011 09:56:18; Dark ; 54.0; 113; Mu Vel ; 2.69; 5000;occ; 108; 0;46258  
22; 6663.3; 04-JAN-2011 09:58:35; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46258  
23; 6777.4; 04-JAN-2011 10:00:29; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46258  
24; 6946.3; 04-JAN-2011 10:03:18; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46258  
25; 7076.8; 04-JAN-2011 10:05:28; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46258  
26; 7194.4; 04-JAN-2011 10:07:26; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46258  
27; 7357.6; 04-JAN-2011 10:10:09; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;46258  
28; 7447.7; 04-JAN-2011 10:11:39; Dark ; 44.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 88; 0;46258  
29; 7590.3; 04-JAN-2011 10:14:02; Dark ; 55.5; 1; 9Alp CMA ; -1.44; 11000;occ; 111; 0;46258

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2; 2018.5; 04-JAN-2011 10:21:24; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;46258  
3; 2200.2; 04-JAN-2011 10:24:26; Dark ; 39.5; 44; 24Gam Gem ; 1.93; 11000;occ; 79; 0;46258  
4; 2299.5; 04-JAN-2011 10:26:05; Bright; 41.0; 151; 13Mu Gem ; 2.89; 3000;occ; 82; 0;46258  
5; 2541.3; 04-JAN-2011 10:30:07; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46258  
6; 2674.1; 04-JAN-2011 10:32:20; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46258  
7; 3666.6; 04-JAN-2011 10:48:52; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46258  
8; 3933.2; 04-JAN-2011 10:53:19; Bright; 45.0; 55; 79Zet UMa ; 2.06; 10200;occ; 90; 0;46258  
9; 4075.8; 04-JAN-2011 10:55:41; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;46258  
10; 4332.0; 04-JAN-2011 10:59:57; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;46258  
11; 4562.3; 04-JAN-2011 11:03:48; Bright; 45.0; 83; ; 2.38; 11000;occ; 90; 0;46258  
12; 4883.4; 04-JAN-2011 11:09:09; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46258  
13; 5194.4; 04-JAN-2011 11:14:20; Bright; 42.0; 104; 27Bet Lib ; 2.61; 13100;occ; 84; 0;46258  
14; 5360.5; 04-JAN-2011 11:17:06; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;46258  
15; 5778.6; 04-JAN-2011 11:24:04; Dark ; 47.0; 54; 5The Cen ; 2.06; 4500;occ; 94; 0;46258  
16; 5938.0; 04-JAN-2011 11:26:43; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46258  
17; 6039.8; 04-JAN-2011 11:28:25; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46259  
18; 6156.5; 04-JAN-2011 11:30:22; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;46259  
19; 6271.0; 04-JAN-2011 11:32:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46259  
20; 6527.6; 04-JAN-2011 11:36:33; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46259  
21; 6664.1; 04-JAN-2011 11:38:50; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;46259  
22; 6777.7; 04-JAN-2011 11:40:43; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46259  
23; 6946.9; 04-JAN-2011 11:43:32; Dark ; 43.0; 34; Gam2Vel ; 1.79; 23000;occ; 86; 0;46259  
24; 7077.3; 04-JAN-2011 11:45:43; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46259  
25; 7194.8; 04-JAN-2011 11:47:40; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46259  
26; 7357.8; 04-JAN-2011 11:50:23; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46259  
27; 7447.8; 04-JAN-2011 11:51:53; Dark ; 42.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 84; 0;46259  
28; 7590.5; 04-JAN-2011 11:54:16; Dark ; 49.0; 1; 9Alp CMA ; -1.44; 11000;occ; 98; 0;46259

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3; 2200.0; 04-JAN-2011 12:04:39; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;46259  
4; 2299.3; 04-JAN-2011 12:06:19; Bright; 56.0; 151; 13Mu Gem ; 2.89; 3000;occ; 112; 0;46259  
5; 2541.1; 04-JAN-2011 12:10:20; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46259  
6; 2674.0; 04-JAN-2011 12:12:33; Bright; 39.5; 42; 34Bet Aur ; 1.90; 10200;occ; 79; 0;46259  
7; 3666.6; 04-JAN-2011 12:29:06; Bright; 35.0; 60; 7Bet UMi ; 2.08; 3950;occ; 70; 0;46259  
8; 3932.8; 04-JAN-2011 12:33:32; Bright; 45.5; 55; 79Zet UMa ; 2.06; 10200;occ; 91; 0;46259  
9; 4075.4; 04-JAN-2011 12:35:55; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;46259  
10; 4332.2; 04-JAN-2011 12:40:12; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;46259

11; 4562.5; 04-JAN-2011 12:44:02; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46259  
 12; 4883.7; 04-JAN-2011 12:49:23; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46259  
 13; 5195.1; 04-JAN-2011 12:54:35; Bright; 58.0; 104; 27Bet Lib ; 2.61; 13100;occ; 116; 0;46259  
 14; 5361.1; 04-JAN-2011 12:57:20; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46259  
 15; 5779.5; 04-JAN-2011 13:04:19; Dark ; 49.0; 54; 5The Cen ; 2.06; 4500;occ; 98; 0;46259  
 16; 5938.7; 04-JAN-2011 13:06:58; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46259  
 17; 6040.2; 04-JAN-2011 13:08:40; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46260  
 18; 6157.5; 04-JAN-2011 13:10:37; Dark ; 46.0; 64; Gam Cen ; 2.20; 10600;occ; 92; 0;46260  
 19; 6272.0; 04-JAN-2011 13:12:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46260  
 20; 6528.5; 04-JAN-2011 13:16:48; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46260  
 21; 6664.6; 04-JAN-2011 13:19:04; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46260  
 22; 6778.3; 04-JAN-2011 13:20:58; Dark ; 41.0; 46; Del Vel ; 1.95; 10600;occ; 82; 0;46260  
 23; 6947.4; 04-JAN-2011 13:23:47; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46260  
 24; 7077.7; 04-JAN-2011 13:25:57; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46260  
 25; 7195.1; 04-JAN-2011 13:27:54; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46260  
 26; 7358.2; 04-JAN-2011 13:30:38; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;46260  
 27; 7448.2; 04-JAN-2011 13:32:08; Dark ; 41.0; 179; 240mi2CMA ; 3.03; 24000;occ; 82; 0;46260

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 3; 2018.5; 04-JAN-2011 13:41:52; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46260  
 4; 2199.7; 04-JAN-2011 13:44:53; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;46260  
 5; 2299.0; 04-JAN-2011 13:46:32; Bright; 50.0; 151; 13Mu Gem ; 2.89; 3000;occ; 100; 0;46260  
 6; 2541.0; 04-JAN-2011 13:50:34; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46260  
 7; 2673.7; 04-JAN-2011 13:52:47; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46260  
 8; 3666.5; 04-JAN-2011 14:09:20; Bright; 40.0; 60; 7Bet UMi ; 2.08; 3950;occ; 80; 0;46260  
 9; 3932.4; 04-JAN-2011 14:13:46; Bright; 48.0; 55; 79Zet UMa ; 2.06; 10200;occ; 96; 0;46260  
 10; 4075.3; 04-JAN-2011 14:16:09; Bright; 52.5; 39; 85Eta UMa ; 1.85; 24000;occ; 105; 0;46260  
 11; 4332.3; 04-JAN-2011 14:20:26; Bright; 65.0; 180; 27Gam Boo ; 3.04; 8000;occ; 130; 0;46260  
 12; 4563.1; 04-JAN-2011 14:24:16; Bright; 44.5; 83; ; 2.38; 11000;occ; 89; 0;46260  
 13; 4884.3; 04-JAN-2011 14:29:38; Bright; 37.0; 102; 24Alp Ser ; 2.60; 4250;occ; 74; 0;46260  
 14; 5195.6; 04-JAN-2011 14:34:49; Bright; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;46260  
 15; 5362.0; 04-JAN-2011 14:37:35; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46260  
 16; 5780.2; 04-JAN-2011 14:44:34; Dark ; 57.0; 54; 5The Cen ; 2.06; 4500;occ; 114; 0;46260  
 17; 5939.5; 04-JAN-2011 14:47:13; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46260  
 18; 6041.1; 04-JAN-2011 14:48:54; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46261  
 19; 6158.5; 04-JAN-2011 14:50:52; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;46261  
 20; 6273.0; 04-JAN-2011 14:52:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46261  
 21; 6529.5; 04-JAN-2011 14:57:03; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46261  
 22; 6664.9; 04-JAN-2011 14:59:18; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;46261  
 23; 6779.0; 04-JAN-2011 15:01:12; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;46261  
 24; 6947.9; 04-JAN-2011 15:04:01; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;46261  
 25; 7078.4; 04-JAN-2011 15:06:12; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46261  
 26; 7195.5; 04-JAN-2011 15:08:09; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46261  
 27; 7358.4; 04-JAN-2011 15:10:52; Dark ; 35.5; 23; 21Eps CMA ; 1.50; 26000;occ; 71; 0;46261

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 2; 1344.6; 04-JAN-2011 16:51:06; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46262  
 3; 1434.4; 04-JAN-2011 16:52:36; Dark ; 45.5; 179; 240mi2CMA ; 3.03; 24000;occ; 91; 0;46262  
 4; 1577.2; 04-JAN-2011 16:54:59; Dark ; 53.5; 1; 9Alp CMA ; -1.44; 11000;occ; 107; 0;46262  
 5; 2018.3; 04-JAN-2011 17:02:20; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46262  
 6; 2199.3; 04-JAN-2011 17:05:21; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;46262  
 7; 2298.6; 04-JAN-2011 17:07:00; Bright; 45.0; 151; 13Mu Gem ; 2.89; 3000;occ; 90; 0;46262  
 8; 2540.6; 04-JAN-2011 17:11:02; Bright; 38.5; 107; 37The Aur ; 2.65; 11000;occ; 77; 0;46262  
 9; 2673.5; 04-JAN-2011 17:13:15; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46262  
 10; 3666.1; 04-JAN-2011 17:29:48; Bright; 38.5; 60; 7Bet UMi ; 2.08; 3950;occ; 77; 0;46262  
 11; 3931.7; 04-JAN-2011 17:34:13; Bright; 46.0; 55; 79Zet UMa ; 2.06; 10200;occ; 92; 0;46262  
 12; 4074.9; 04-JAN-2011 17:36:36; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;46262  
 13; 4332.3; 04-JAN-2011 17:40:54; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;46262  
 14; 4563.4; 04-JAN-2011 17:44:45; Bright; 65.0; 83; ; 2.38; 11000;occ; 130; 0;46262  
 15; 4885.0; 04-JAN-2011 17:50:06; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;46262  
 16; 5196.5; 04-JAN-2011 17:55:18; Bright; 57.0; 104; 27Bet Lib ; 2.61; 13100;occ; 114; 0;46262  
 17; 5363.3; 04-JAN-2011 17:58:05; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46262  
 18; 5781.8; 04-JAN-2011 18:05:03; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;46262  
 19; 5940.9; 04-JAN-2011 18:07:42; Dark ; 40.0; 95; Zet Cen ; 2.55; 26000;occ; 80; 0;46262  
 20; 6042.3; 04-JAN-2011 18:09:24; Dark ; 39.5; 77; Eps Cen ; 2.30; 28000;occ; 79; 0;46263  
 21; 6160.1; 04-JAN-2011 18:11:21; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46263  
 22; 6275.0; 04-JAN-2011 18:13:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46263



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25; 6779.9; 04-JAN-2011 18:21:41; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;46263
26; 6948.9; 04-JAN-2011 18:24:30; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;46263
27; 7079.3; 04-JAN-2011 18:26:41; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;46263
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13; 4074.5; 04-JAN-2011 19:16:50; Bright; 49.0; 39; 85Eta UMa ; 1.85; 24000;occ; 98; 0;46263
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16; 4885.2; 04-JAN-2011 19:30:21; Bright; 37.5; 102; 24Alp Ser ; 2.60; 4250;occ; 75; 0;46263
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18; 5364.0; 04-JAN-2011 19:38:20; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46263
19; 5782.6; 04-JAN-2011 19:45:18; Dark ; 48.5; 54; 5The Cen ; 2.06; 4500;occ; 97; 0;46263
20; 5941.4; 04-JAN-2011 19:47:57; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46263
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22; 6160.9; 04-JAN-2011 19:51:36; Dark ; 45.5; 64; Gam Cen ; 2.20; 10600;occ; 91; 0;46264
23; 6275.9; 04-JAN-2011 19:53:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46264
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26; 6780.4; 04-JAN-2011 20:01:56; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46264
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 5; 149.2; 05-JAN-2011 00:52:21; Dark ; 44.0; 64; Gam Cen ; 2.20; 10600;occ; 88; 0;46267
 6; 264.6; 05-JAN-2011 00:54:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46267
 7; 520.4; 05-JAN-2011 00:58:32; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46267
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10; 936.3; 05-JAN-2011 01:05:28; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;46267
11; 1066.8; 05-JAN-2011 01:07:38; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46267
12; 1183.2; 05-JAN-2011 01:09:35; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46267
13; 1345.6; 05-JAN-2011 01:12:17; Dark ; 44.0; 23; 21Eps CMa ; 1.50; 26000;occ; 88; 0;46267
14; 1435.2; 05-JAN-2011 01:13:47; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;46267
15; 1577.5; 05-JAN-2011 01:16:09; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;46267
16; 2017.9; 05-JAN-2011 01:23:29; Dark ; 54.0; 14; 58Alp Ori ; 0.87; 3000;occ; 108; 0;46267
17; 2197.7; 05-JAN-2011 01:26:29; Dark ; 47.5; 44; 24Gam Gem ; 1.93; 11000;occ; 95; 0;46267
18; 2297.3; 05-JAN-2011 01:28:09; Bright; 50.0; 151; 13Mu Gem ; 2.89; 3000;occ; 100; 0;46267
19; 2539.5; 05-JAN-2011 01:32:11; Bright; 39.5; 107; 37The Aur ; 2.65; 11000;occ; 79; 0;46267
20; 2672.4; 05-JAN-2011 01:34:24; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46267
21; 3665.3; 05-JAN-2011 01:50:57; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46267
22; 3929.6; 05-JAN-2011 01:55:21; Bright; 47.5; 55; 79Zet UMa ; 2.06; 10200;occ; 95; 0;46267
23; 4073.5; 05-JAN-2011 01:57:45; Bright; 45.5; 39; 85Eta UMa ; 1.85; 24000;occ; 91; 0;46267
24; 4332.3; 05-JAN-2011 02:02:04; Bright; 43.0; 180; 27Gam Boo ; 3.04; 8000;occ; 86; 0;46267
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 6; 150.2; 05-JAN-2011 02:32:36; Dark ; 47.0; 64; Gam Cen ; 2.20; 10600;occ; 94; 0;46268
 7; 265.6; 05-JAN-2011 02:34:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46268

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10; 768.4; 05-JAN-2011 02:42:54; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;46268
11; 937.1; 05-JAN-2011 02:45:43; Dark ; 44.5; 34; Gam2Vel ; 1.79; 23000;occ; 89; 0;46268
12; 1067.5; 05-JAN-2011 02:47:53; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46268
13; 1183.7; 05-JAN-2011 02:49:49; Dark ; 49.0; 117; Pi Pup ; 2.71; 3800;occ; 98; 0;46268
14; 1346.0; 05-JAN-2011 02:52:31; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;46268
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17; 2018.0; 05-JAN-2011 03:03:43; Dark ; 52.5; 14; 58Alp Ori ; 0.87; 3000;occ; 105; 0;46268
18; 2197.8; 05-JAN-2011 03:06:43; Dark ; 51.5; 44; 24Gam Gem ; 1.93; 11000;occ; 103; 0;46268
19; 2297.2; 05-JAN-2011 03:08:23; Bright; 54.0; 151; 13Mu Gem ; 2.89; 3000;occ; 108; 0;46268
20; 2539.4; 05-JAN-2011 03:12:25; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46268
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3; -1940.7; 05-JAN-2011 03:37:59; Bright; 59.0; 39; 85Eta UMa ; 1.85; 24000;occ; 118; 0;46268
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5; -1449.4; 05-JAN-2011 03:46:10; Bright; 66.0; 83; ; 2.38; 11000;occ; 132; 0;46268
6; -1127.2; 05-JAN-2011 03:51:32; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46268
7; -814.4; 05-JAN-2011 03:56:45; Bright; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;46268
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10; 31.9; 05-JAN-2011 04:10:51; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46269
11; 151.2; 05-JAN-2011 04:12:51; Dark ; 43.5; 64; Gam Cen ; 2.20; 10600;occ; 87; 0;46269
12; 266.5; 05-JAN-2011 04:14:46; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46269
13; 522.4; 05-JAN-2011 04:19:02; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46269
14; 655.1; 05-JAN-2011 04:21:15; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46269
15; 769.1; 05-JAN-2011 04:23:09; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;46269
16; 937.6; 05-JAN-2011 04:25:57; Dark ; 48.0; 34; Gam2Vel ; 1.79; 23000;occ; 96; 0;46269
17; 1068.1; 05-JAN-2011 04:28:08; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;46269
18; 1184.2; 05-JAN-2011 04:30:04; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46269
19; 1346.4; 05-JAN-2011 04:32:46; Dark ; 44.5; 23; 21Eps CMA ; 1.50; 26000;occ; 89; 0;46269
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23; 2197.8; 05-JAN-2011 04:46:57; Dark ; 47.0; 44; 24Gam Gem ; 1.93; 11000;occ; 94; 0;46269
24; 2296.9; 05-JAN-2011 04:48:36; Bright; 57.5; 151; 13Mu Gem ; 2.89; 3000;occ; 115; 0;46269
25; 2539.4; 05-JAN-2011 04:52:39; Bright; 46.0; 107; 37The Aur ; 2.65; 11000;occ; 92; 0;46269
26; 2672.1; 05-JAN-2011 04:54:52; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46269
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3; -1941.1; 05-JAN-2011 05:18:13; Bright; 69.0; 39; 85Eta UMa ; 1.85; 24000;occ; 138; 0;46269
4; -1681.6; 05-JAN-2011 05:22:32; Bright; 66.0; 180; 27Gam Boo ; 3.04; 8000;occ; 132; 0;46269
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6; -1126.8; 05-JAN-2011 05:31:47; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46269
7; -813.8; 05-JAN-2011 05:37:00; Bright; 40.5; 104; 27Bet Lib ; 2.61; 13100;occ; 81; 0;46269
8; -645.9; 05-JAN-2011 05:39:48; Dark ; 47.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 94; 0;46269
9; -226.4; 05-JAN-2011 05:46:47; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;46269
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12; 152.0; 05-JAN-2011 05:53:06; Dark ; 45.0; 64; Gam Cen ; 2.20; 10600;occ; 90; 0;46270
13; 267.4; 05-JAN-2011 05:55:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46270
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16; 769.5; 05-JAN-2011 06:03:23; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46270
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25; 2296.9; 05-JAN-2011 06:28:51; Bright; 48.5; 151; 13Mu Gem ; 2.89; 3000;occ; 97; 0;46270

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13; 4070.2; 05-JAN-2011 22:00:30; Bright; 47.5; 39; 85Eta UMa ; 1.85; 24000;occ; 95; 0;46279
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4; 38.5; 05-JAN-2011 22:33:32; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46280
5; 201.0; 05-JAN-2011 22:36:15; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;46280
6; 276.8; 05-JAN-2011 22:37:31; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46280
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8; 660.6; 05-JAN-2011 22:43:54; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46280
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 21; 3662.1; 07-JAN-2011 00:37:26; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46295  
 22; 3904.9; 07-JAN-2011 00:41:29; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;46295  
 23; 4066.0; 07-JAN-2011 00:44:10; Bright; 68.0; 39; 85Eta UMA ; 1.85; 24000;occ; 136; 0;46295  
 24; 4332.4; 07-JAN-2011 00:48:36; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;46295  
 25; 4570.7; 07-JAN-2011 00:52:35; Bright; 47.5; 83; ; 2.38; 11000;occ; 95; 0;46295  
 26; 4896.1; 07-JAN-2011 00:58:00; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46295  
 27; 5214.5; 07-JAN-2011 01:03:19; Dark ; 47.0; 104; 27Bet Lib ; 2.61; 13100;occ; 94; 0;46295

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 4; -1681.5; 06-JAN-2011 06:26:02; Bright; 58.0; 180; 27Gam Boo ; 3.04; 8000;occ; 116; 0;46284  
 5; -1445.8; 06-JAN-2011 06:29:58; Bright; 47.0; 83; ; 2.38; 11000;occ; 94; 0;46284  
 6; -1121.6; 06-JAN-2011 06:35:22; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46284  
 7; -805.7; 06-JAN-2011 06:40:38; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;46284  
 8; -635.4; 06-JAN-2011 06:43:28; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46284  
 9; -214.3; 06-JAN-2011 06:50:30; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;46284  
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 11; 41.7; 06-JAN-2011 06:54:46; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46285  
 12; 204.1; 06-JAN-2011 06:57:28; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;46285  
 13; 281.5; 06-JAN-2011 06:58:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46285  
 14; 536.1; 06-JAN-2011 07:03:00; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46285  
 15; 663.4; 06-JAN-2011 07:05:07; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;46285  
 16; 776.9; 06-JAN-2011 07:07:01; Dark ; 44.0; 46; Del Vel ; 1.95; 10600;occ; 88; 0;46285  
 17; 945.1; 06-JAN-2011 07:09:49; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46285  
 18; 1075.3; 06-JAN-2011 07:11:59; Dark ; 44.5; 70; Zet Pup ; 2.25; 39000;occ; 89; 0;46285  
 19; 1189.6; 06-JAN-2011 07:13:54; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;46285  
 20; 1350.6; 06-JAN-2011 07:16:34; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46285  
 21; 1439.2; 06-JAN-2011 07:18:03; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46285  
 22; 1580.0; 06-JAN-2011 07:20:24; Dark ; 51.0; 1; 9Alp CMA ; -1.44; 11000;occ; 102; 0;46285

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 2; 2193.8; 06-JAN-2011 07:30:38; Dark ; 48.5; 44; 24Gam Gem ; 1.93; 11000;occ; 97; 0;46285  
 3; 2293.8; 06-JAN-2011 07:32:18; Bright; 43.0; 151; 13Mu Gem ; 2.89; 3000;occ; 86; 0;46285  
 4; 2536.7; 06-JAN-2011 07:36:21; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46285  
 5; 2669.4; 06-JAN-2011 07:38:33; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46285  
 6; 3663.3; 06-JAN-2011 07:55:07; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46285  
 7; 3904.7; 06-JAN-2011 07:59:09; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46285  
 8; 4068.9; 06-JAN-2011 08:01:53; Bright; 48.0; 39; 85Eta UMA ; 1.85; 24000;occ; 96; 0;46285  
 9; 4332.5; 06-JAN-2011 08:06:16; Bright; 44.0; 180; 27Gam Boo ; 3.04; 8000;occ; 88; 0;46285  
 10; 4568.5; 06-JAN-2011 08:10:12; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;46285  
 11; 4892.8; 06-JAN-2011 08:15:37; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46285  
 12; 5208.9; 06-JAN-2011 08:20:53; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46285  
 13; 5379.3; 06-JAN-2011 08:23:43; Dark ; 46.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 93; 0;46285  
 14; 5800.4; 06-JAN-2011 08:30:44; Dark ; 46.0; 54; 5The Cen ; 2.06; 4500;occ; 92; 0;46285  
 15; 5956.4; 06-JAN-2011 08:33:20; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46285  
 16; 6056.3; 06-JAN-2011 08:35:00; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;46286

17; 6218.7; 06-JAN-2011 08:37:43; Dark ; 44.0; 20; Bet Cru ; 1.25; 3000;occ; 88; 0;46286  
 18; 6296.5; 06-JAN-2011 08:39:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46286  
 19; 6551.0; 06-JAN-2011 08:43:15; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46286  
 20; 6677.9; 06-JAN-2011 08:45:22; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46286  
 21; 6791.5; 06-JAN-2011 08:47:15; Dark ; 47.0; 46; Del Vel ; 1.95; 10600;occ; 94; 0;46286  
 22; 6959.5; 06-JAN-2011 08:50:03; Dark ; 46.5; 34; Gam2Vel ; 1.79; 23000;occ; 93; 0;46286  
 23; 7089.8; 06-JAN-2011 08:52:14; Dark ; 47.0; 70; Zet Pup ; 2.25; 39000;occ; 94; 0;46286  
 24; 7203.9; 06-JAN-2011 08:54:08; Dark ; 45.0; 117; Pi Pup ; 2.71; 3800;occ; 90; 0;46286  
 25; 7364.7; 06-JAN-2011 08:56:49; Dark ; 44.0; 23; 21Eps CMA ; 1.50; 26000;occ; 88; 0;46286  
 26; 7453.4; 06-JAN-2011 08:58:17; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0;46286  
 27; 7594.2; 06-JAN-2011 09:00:38; Dark ; 56.0; 1; 9Alp CMA ; -1.44; 11000;occ; 112; 0;46286

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 3; 2293.7; 06-JAN-2011 09:12:32; Bright; 55.0; 151; 13Mu Gem ; 2.89; 3000;occ; 110; 0;46286  
 4; 2536.4; 06-JAN-2011 09:16:34; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46286  
 5; 2669.2; 06-JAN-2011 09:18:47; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46286  
 6; 3663.2; 06-JAN-2011 09:35:21; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46286  
 7; 3904.7; 06-JAN-2011 09:39:23; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46286  
 8; 4068.6; 06-JAN-2011 09:42:06; Bright; 61.0; 39; 85Eta UMa ; 1.85; 24000;occ; 122; 0;46286  
 9; 4332.3; 06-JAN-2011 09:46:30; Bright; 43.5; 180; 27Gam Boo ; 3.04; 8000;occ; 87; 0;46286  
 10; 4568.7; 06-JAN-2011 09:50:27; Bright; 53.5; 83; ; 2.38; 11000;occ; 107; 0;46286  
 11; 4893.1; 06-JAN-2011 09:55:51; Bright; 38.5; 102; 24Alp Ser ; 2.60; 4250;occ; 77; 0;46286  
 12; 5209.5; 06-JAN-2011 10:01:07; Dark ; 44.5; 104; 27Bet Lib ; 2.61; 13100;occ; 89; 0;46286  
 13; 5379.9; 06-JAN-2011 10:03:58; Dark ; 44.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 88; 0;46286  
 14; 5801.4; 06-JAN-2011 10:10:59; Dark ; 49.5; 54; 5The Cen ; 2.06; 4500;occ; 99; 0;46286  
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 16; 6057.0; 06-JAN-2011 10:15:15; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46287  
 17; 6219.3; 06-JAN-2011 10:17:57; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46287  
 18; 6297.4; 06-JAN-2011 10:19:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46287  
 19; 6551.8; 06-JAN-2011 10:23:30; Dark ; 48.5; 113; Mu Vel ; 2.69; 5000;occ; 97; 0;46287  
 20; 6678.3; 06-JAN-2011 10:25:36; Dark ; 39.5; 71; Iot Car ; 2.25; 7700;occ; 79; 0;46287  
 21; 6792.0; 06-JAN-2011 10:27:30; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46287  
 22; 6960.0; 06-JAN-2011 10:30:18; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46287  
 23; 7090.2; 06-JAN-2011 10:32:28; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46287  
 24; 7204.2; 06-JAN-2011 10:34:22; Dark ; 50.0; 117; Pi Pup ; 2.71; 3800;occ; 100; 0;46287  
 25; 7365.0; 06-JAN-2011 10:37:03; Dark ; 47.0; 23; 21Eps CMA ; 1.50; 26000;occ; 94; 0;46287  
 26; 7453.6; 06-JAN-2011 10:38:32; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;46287  
 27; 7594.2; 06-JAN-2011 10:40:52; Dark ; 13.0; 1; 9Alp CMA ; -1.44; 11000;occ; 26; 0;46287

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 2; 2018.5; 06-JAN-2011 10:48:10; Dark ; 49.0; 14; 58Alp Ori ; 0.87; 3000;occ; 98; 0;46287  
 3; 2193.4; 06-JAN-2011 10:51:05; Dark ; 39.0; 44; 24Gam Gem ; 1.93; 11000;occ; 78; 0;46287  
 4; 2293.3; 06-JAN-2011 10:52:45; Bright; 37.0; 151; 13Mu Gem ; 2.89; 3000;occ; 74; 0;46287  
 5; 2536.3; 06-JAN-2011 10:56:48; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46287  
 6; 2669.2; 06-JAN-2011 10:59:01; Bright; 37.5; 42; 34Bet Aur ; 1.90; 10200;occ; 75; 0;46287  
 7; 3663.1; 06-JAN-2011 11:15:35; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46287  
 8; 3904.6; 06-JAN-2011 11:19:36; Bright; 37.0; 119; 14Eta Dra ; 2.73; 4700;occ; 74; 0;46287  
 9; 4068.3; 06-JAN-2011 11:22:20; Bright; 47.0; 39; 85Eta UMa ; 1.85; 24000;occ; 94; 0;46287  
 10; 4332.3; 06-JAN-2011 11:26:44; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;46287  
 11; 4569.0; 06-JAN-2011 11:30:41; Bright; 48.0; 83; ; 2.38; 11000;occ; 96; 0;46287  
 12; 4893.5; 06-JAN-2011 11:36:05; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46287  
 13; 5210.0; 06-JAN-2011 11:41:22; Dark ; 42.5; 104; 27Bet Lib ; 2.61; 13100;occ; 85; 0;46287  
 14; 5380.8; 06-JAN-2011 11:44:13; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46287  
 15; 5802.2; 06-JAN-2011 11:51:14; Dark ; 50.5; 54; 5The Cen ; 2.06; 4500;occ; 101; 0;46287  
 16; 5957.9; 06-JAN-2011 11:53:50; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46287  
 17; 6057.5; 06-JAN-2011 11:55:29; Dark ; 40.5; 77; Eps Cen ; 2.30; 28000;occ; 81; 0;46288  
 18; 6219.9; 06-JAN-2011 11:58:12; Dark ; 41.0; 20; Bet Cru ; 1.25; 30000;occ; 82; 0;46288  
 19; 6298.3; 06-JAN-2011 11:59:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46288  
 20; 6553.0; 06-JAN-2011 12:03:45; Dark ; 58.5; 113; Mu Vel ; 2.69; 5000;occ; 117; 0;46288  
 21; 6678.9; 06-JAN-2011 12:05:51; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46288  
 22; 6792.5; 06-JAN-2011 12:07:44; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46288  
 23; 6960.5; 06-JAN-2011 12:10:32; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46288  
 24; 7090.8; 06-JAN-2011 12:12:43; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46288  
 25; 7204.4; 06-JAN-2011 12:14:36; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46288  
 26; 7365.2; 06-JAN-2011 12:17:17; Dark ; 45.5; 23; 21Eps CMA ; 1.50; 26000;occ; 91; 0;46288  
 27; 7453.8; 06-JAN-2011 12:18:46; Dark ; 43.0; 179; 240mi2CMA ; 3.03; 24000;occ; 86; 0;46288  
 28; 7594.4; 06-JAN-2011 12:21:06; Dark ; 18.5; 1; 9Alp CMA ; -1.44; 11000;occ; 37; 0;46288



/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110106\_122106\_000059143098\_00153\_46288\_3108.N1

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 2; 2018.4; 06-JAN-2011 12:28:24; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;46288  
 3; 2193.1; 06-JAN-2011 12:31:19; Dark ; 52.0; 44; 24Gam Gem ; 1.93; 11000;occ; 104; 0;46288  
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 5; 2536.0; 06-JAN-2011 12:37:02; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46288  
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 9; 4068.0; 06-JAN-2011 13:02:34; Bright; 70.0; 39; 85Eta UMa ; 1.85; 24000;occ; 140; 0;46288  
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 11; 4569.2; 06-JAN-2011 13:10:55; Bright; 48.5; 83; ; 2.38; 11000;occ; 97; 0;46288  
 12; 4893.7; 06-JAN-2011 13:16:20; Bright; 56.0; 102; 24Alp Ser ; 2.60; 4250;occ; 112; 0;46288  
 13; 5210.6; 06-JAN-2011 13:21:36; Dark ; 46.5; 104; 27Bet Lib ; 2.61; 13100;occ; 93; 0;46288  
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 15; 5803.1; 06-JAN-2011 13:31:29; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;46288  
 16; 5958.6; 06-JAN-2011 13:34:04; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46288  
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 18; 6220.5; 06-JAN-2011 13:38:26; Dark ; 41.5; 20; Bet Cru ; 1.25; 30000;occ; 83; 0;46289  
 19; 6299.3; 06-JAN-2011 13:39:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46289  
 20; 6553.4; 06-JAN-2011 13:43:59; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46289  
 21; 6679.2; 06-JAN-2011 13:46:05; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;46289  
 22; 6793.0; 06-JAN-2011 13:47:59; Dark ; 40.0; 46; Del Vel ; 1.95; 10600;occ; 80; 0;46289  
 23; 6960.9; 06-JAN-2011 13:50:47; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46289  
 24; 7090.9; 06-JAN-2011 13:52:57; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46289  
 25; 7204.9; 06-JAN-2011 13:54:51; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;46289  
 26; 7365.4; 06-JAN-2011 13:57:31; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;46289  
 27; 7454.2; 06-JAN-2011 13:59:00; Dark ; 41.0; 179; 24Omi2CMa ; 3.03; 24000;occ; 82; 0;46289

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 3; 2018.7; 06-JAN-2011 14:08:39; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;46289  
 4; 2193.1; 06-JAN-2011 14:11:33; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;46289  
 5; 2293.0; 06-JAN-2011 14:13:13; Bright; 52.5; 151; 13Mu Gem ; 2.89; 3000;occ; 105; 0;46289  
 6; 2536.2; 06-JAN-2011 14:17:16; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46289  
 7; 2668.7; 06-JAN-2011 14:19:28; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46289  
 8; 3662.9; 06-JAN-2011 14:36:03; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46289  
 9; 3904.9; 06-JAN-2011 14:40:05; Bright; 36.5; 119; 14Eta Dra ; 2.73; 4700;occ; 73; 0;46289  
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 11; 4332.7; 06-JAN-2011 14:47:12; Bright; 49.0; 180; 27Gam Boo ; 3.04; 8000;occ; 98; 0;46289  
 12; 4569.6; 06-JAN-2011 14:51:09; Bright; 46.5; 83; ; 2.38; 11000;occ; 93; 0;46289  
 13; 4894.4; 06-JAN-2011 14:56:34; Bright; 39.0; 102; 24Alp Ser ; 2.60; 4250;occ; 78; 0;46289  
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 16; 5803.9; 06-JAN-2011 15:11:44; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;46289  
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 19; 6221.1; 06-JAN-2011 15:18:41; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46290  
 20; 6300.3; 06-JAN-2011 15:20:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46290  
 21; 6554.4; 06-JAN-2011 15:24:14; Dark ; 49.0; 113; Mu Vel ; 2.69; 5000;occ; 98; 0;46290  
 22; 6679.8; 06-JAN-2011 15:26:20; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46290  
 23; 6793.5; 06-JAN-2011 15:28:13; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46290  
 24; 6961.4; 06-JAN-2011 15:31:01; Dark ; 44.0; 34; Gam2Vel ; 1.79; 23000;occ; 88; 0;46290  
 25; 7091.3; 06-JAN-2011 15:33:11; Dark ; 46.5; 70; Zet Pup ; 2.25; 39000;occ; 93; 0;46290  
 26; 7204.9; 06-JAN-2011 15:35:05; Dark ; 45.5; 117; Pi Pup ; 2.71; 3800;occ; 91; 0;46290  
 27; 7365.5; 06-JAN-2011 15:37:45; Dark ; 34.5; 23; 21Eps CMa ; 1.50; 26000;occ; 69; 0;46290

/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110106\_153747\_000057823098\_00155\_46290\_3110.N1

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 2; 1440.4; 06-JAN-2011 15:39:14; Dark ; 42.5; 179; 24Omi2CMa ; 3.03; 24000;occ; 85; 0;46290  
 3; 1580.6; 06-JAN-2011 15:41:34; Dark ; 57.0; 1; 9Alp CMa ; -1.44; 11000;occ; 114; 0;46290  
 4; 2018.4; 06-JAN-2011 15:48:52; Dark ; 47.5; 14; 58Alp Ori ; 0.87; 3000;occ; 95; 0;46290  
 5; 2192.8; 06-JAN-2011 15:51:47; Dark ; 45.0; 44; 24Gam Gem ; 1.93; 11000;occ; 90; 0;46290  
 6; 2292.8; 06-JAN-2011 15:53:27; Bright; 49.5; 151; 13Mu Gem ; 2.89; 3000;occ; 99; 0;46290  
 7; 2535.8; 06-JAN-2011 15:57:30; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46290  
 8; 2668.4; 06-JAN-2011 15:59:42; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46290  
 9; 3662.8; 06-JAN-2011 16:16:17; Bright; 36.0; 60; 7Bet UMi ; 2.08; 3950;occ; 72; 0;46290  
 10; 3904.9; 06-JAN-2011 16:20:19; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46290  
 11; 4067.4; 06-JAN-2011 16:23:01; Bright; 45.0; 39; 85Eta UMa ; 1.85; 24000;occ; 90; 0;46290

```

12; 4332.6; 06-JAN-2011 16:27:26; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;46290
13; 4569.8; 06-JAN-2011 16:31:24; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;46290
14; 4894.7; 06-JAN-2011 16:36:49; Bright; 38.0; 102; 24Alp Ser ; 2.60; 4250;occ; 76; 0;46290
15; 5211.7; 06-JAN-2011 16:42:06; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46290
16; 5383.1; 06-JAN-2011 16:44:57; Dark ; 49.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 98; 0;46290
17; 5804.8; 06-JAN-2011 16:51:59; Dark ; 56.0; 54; 5The Cen ; 2.06; 4500;occ; 112; 0;46290
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19; 6059.4; 06-JAN-2011 16:56:13; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46291
20; 6221.8; 06-JAN-2011 16:58:56; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;46291
21; 6301.3; 06-JAN-2011 17:00:15; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46291
22; 6555.2; 06-JAN-2011 17:04:29; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46291
23; 6680.4; 06-JAN-2011 17:06:34; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;46291
24; 6794.0; 06-JAN-2011 17:08:28; Dark ; 46.0; 46; Del Vel ; 1.95; 10600;occ; 92; 0;46291
25; 6961.9; 06-JAN-2011 17:11:16; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46291
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3; 1351.8; 06-JAN-2011 17:18:00; Dark ; 43.0; 23; 21Eps CMa ; 1.50; 26000;occ; 86; 0;46291
4; 1440.5; 06-JAN-2011 17:19:28; Dark ; 43.0; 179; 240mi2CMa ; 3.03; 24000;occ; 86; 0;46291
5; 1580.9; 06-JAN-2011 17:21:49; Dark ; 48.5; 1; 9Alp CMa ; -1.44; 11000;occ; 97; 0;46291
6; 2018.5; 06-JAN-2011 17:29:06; Dark ; 51.5; 14; 58Alp Ori ; 0.87; 3000;occ; 103; 0;46291
7; 2192.5; 06-JAN-2011 17:32:00; Dark ; 59.0; 44; 24Gam Gem ; 1.93; 11000;occ; 118; 0;46291
8; 2292.5; 06-JAN-2011 17:33:40; Bright; 45.5; 151; 13Mu Gem ; 2.89; 3000;occ; 91; 0;46291
9; 2535.7; 06-JAN-2011 17:37:44; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;46291
10; 2668.2; 06-JAN-2011 17:39:56; Bright; 38.0; 42; 34Bet Aur ; 1.90; 10200;occ; 76; 0;46291
11; 3662.7; 06-JAN-2011 17:56:31; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46291
12; 3904.8; 06-JAN-2011 18:00:33; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46291
13; 4067.1; 06-JAN-2011 18:03:15; Bright; 70.0; 39; 85Eta UMa ; 1.85; 24000;occ; 140; 0;46291
14; 4332.4; 06-JAN-2011 18:07:40; Bright; 45.0; 180; 27Gam Boo ; 3.04; 8000;occ; 90; 0;46291
15; 4570.1; 06-JAN-2011 18:11:38; Bright; 67.0; 83; ; 2.38; 11000;occ; 134; 0;46291
16; 4895.1; 06-JAN-2011 18:17:03; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;46291
17; 5212.2; 06-JAN-2011 18:22:20; Dark ; 45.5; 104; 27Bet Lib ; 2.61; 13100;occ; 91; 0;46291
18; 5383.4; 06-JAN-2011 18:25:11; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46291
19; 5805.6; 06-JAN-2011 18:32:14; Dark ; 55.0; 54; 5The Cen ; 2.06; 4500;occ; 110; 0;46291
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21; 6060.2; 06-JAN-2011 18:36:28; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46292
22; 6222.2; 06-JAN-2011 18:39:10; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46292
23; 6302.2; 06-JAN-2011 18:40:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46292
24; 6556.4; 06-JAN-2011 18:44:44; Dark ; 56.5; 113; Mu Vel ; 2.69; 5000;occ; 113; 0;46292
25; 6680.8; 06-JAN-2011 18:46:49; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46292
26; 6794.6; 06-JAN-2011 18:48:43; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46292
27; 6962.4; 06-JAN-2011 18:51:30; Dark ; 40.0; 34; Gam2Vel ; 1.79; 23000;occ; 80; 0;46292
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3; 1191.6; 06-JAN-2011 18:55:34; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46292
4; 1352.0; 06-JAN-2011 18:58:14; Dark ; 48.0; 23; 21Eps CMa ; 1.50; 26000;occ; 96; 0;46292
5; 1440.7; 06-JAN-2011 18:59:43; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;46292
6; 1580.8; 06-JAN-2011 19:02:03; Dark ; 52.5; 1; 9Alp CMa ; -1.44; 11000;occ; 105; 0;46292
7; 2018.5; 06-JAN-2011 19:09:21; Dark ; 47.0; 14; 58Alp Ori ; 0.87; 3000;occ; 94; 0;46292
8; 2192.3; 06-JAN-2011 19:12:14; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;46292
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10; 2535.6; 06-JAN-2011 19:17:58; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46292
11; 2668.1; 06-JAN-2011 19:20:10; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46292
12; 3662.5; 06-JAN-2011 19:36:45; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46292
13; 3904.7; 06-JAN-2011 19:40:47; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46292
14; 4066.8; 06-JAN-2011 19:43:29; Bright; 49.5; 39; 85Eta UMa ; 1.85; 24000;occ; 99; 0;46292
15; 4332.5; 06-JAN-2011 19:47:54; Bright; 67.0; 180; 27Gam Boo ; 3.04; 8000;occ; 134; 0;46292
16; 4570.3; 06-JAN-2011 19:51:52; Bright; 45.5; 83; ; 2.38; 11000;occ; 91; 0;46292
17; 4895.2; 06-JAN-2011 19:57:17; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;46292
18; 5212.8; 06-JAN-2011 20:02:35; Dark ; 46.0; 104; 27Bet Lib ; 2.61; 13100;occ; 92; 0;46292
19; 5384.3; 06-JAN-2011 20:05:26; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46292
20; 5806.2; 06-JAN-2011 20:12:28; Dark ; 50.0; 54; 5The Cen ; 2.06; 4500;occ; 100; 0;46292
21; 6060.7; 06-JAN-2011 20:16:43; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;46293
22; 6222.7; 06-JAN-2011 20:19:25; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46293
23; 6303.1; 06-JAN-2011 20:20:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46293
24; 6557.0; 06-JAN-2011 20:24:59; Dark ; 46.5; 113; Mu Vel ; 2.69; 5000;occ; 93; 0;46293

```

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25; 6681.4; 06-JAN-2011 20:27:03; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46293
26; 6794.9; 06-JAN-2011 20:28:57; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;46293
27; 6962.6; 06-JAN-2011 20:31:45; Dark ; 35.5; 34; Gam2Vel ; 1.79; 23000;occ; 71; 0;46293
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2; -205.2; 07-JAN-2011 01:13:13; Dark ; 44.0; 54; 5The Cen ; 2.06; 4500;occ; 88; 0;46295
3; -50.8; 07-JAN-2011 01:15:47; Dark ; 41.5; 95; Zet Cen ; 2.55; 26000;occ; 83; 0;46295
4; 48.6; 07-JAN-2011 01:17:27; Dark ; 41.5; 77; Eps Cen ; 2.30; 28000;occ; 83; 0;46296
5; 210.6; 07-JAN-2011 01:20:09; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;46296
6; 291.9; 07-JAN-2011 01:21:30; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46296
7; 545.6; 07-JAN-2011 01:25:44; Dark ; 51.5; 113; Mu Vel ; 2.69; 5000;occ; 103; 0;46296
8; 668.8; 07-JAN-2011 01:27:47; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46296
9; 782.4; 07-JAN-2011 01:29:40; Dark ; 42.0; 46; Del Vel ; 1.95; 10600;occ; 84; 0;46296
10; 949.9; 07-JAN-2011 01:32:28; Dark ; 41.5; 34; Gam2Vel ; 1.79; 23000;occ; 83; 0;46296
11; 1080.1; 07-JAN-2011 01:34:38; Dark ; 47.5; 70; Zet Pup ; 2.25; 39000;occ; 95; 0;46296
12; 1192.7; 07-JAN-2011 01:36:31; Dark ; 47.5; 117; Pi Pup ; 2.71; 3800;occ; 95; 0;46296
13; 1352.9; 07-JAN-2011 01:39:11; Dark ; 46.0; 23; 21Eps CMA ; 1.50; 26000;occ; 92; 0;46296
14; 1441.4; 07-JAN-2011 01:40:39; Dark ; 42.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 84; 0;46296
15; 1581.4; 07-JAN-2011 01:42:59; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;46296
16; 2018.4; 07-JAN-2011 01:50:16; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;46296
17; 2191.4; 07-JAN-2011 01:53:09; Dark ; 48.0; 44; 24Gam Gem ; 1.93; 11000;occ; 96; 0;46296
18; 2291.6; 07-JAN-2011 01:54:50; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46296
19; 2535.0; 07-JAN-2011 01:58:53; Bright; 39.0; 107; 37The Aur ; 2.65; 11000;occ; 78; 0;46296
20; 2667.5; 07-JAN-2011 02:01:05; Bright; 38.5; 42; 34Bet Aur ; 1.90; 10200;occ; 77; 0;46296
21; 3661.9; 07-JAN-2011 02:17:40; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46296
22; 3904.8; 07-JAN-2011 02:21:43; Bright; 53.0; 119; 14Eta Dra ; 2.73; 4700;occ; 106; 0;46296
23; 4065.6; 07-JAN-2011 02:24:24; Bright; 63.0; 39; 85Eta UMa ; 1.85; 24000;occ; 126; 0;46296
24; 4332.4; 07-JAN-2011 02:28:50; Bright; 46.0; 180; 27Gam Boo ; 3.04; 8000;occ; 92; 0;46296
25; 4571.1; 07-JAN-2011 02:32:49; Bright; 68.0; 83; ; 2.38; 11000;occ; 136; 0;46296
26; 4896.9; 07-JAN-2011 02:38:15; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;46296
27; 5215.0; 07-JAN-2011 02:43:33; Dark ; 48.0; 104; 27Bet Lib ; 2.61; 13100;occ; 96; 0;46296
28; 5387.3; 07-JAN-2011 02:46:25; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46296
29; 5809.6; 07-JAN-2011 02:53:28; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;46296
30; 5964.1; 07-JAN-2011 02:56:02; Dark ; 42.0; 95; Zet Cen ; 2.55; 26000;occ; 84; 0;46296
31; 6063.2; 07-JAN-2011 02:57:41; Dark ; 41.0; 77; Eps Cen ; 2.30; 28000;occ; 82; 0;46297
32; 6225.1; 07-JAN-2011 03:00:23; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46297
33; 6306.8; 07-JAN-2011 03:01:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46297
34; 6560.5; 07-JAN-2011 03:05:58; Dark ; 51.5; 113; Mu Vel ; 2.69; 5000;occ; 103; 0;46297
35; 6683.3; 07-JAN-2011 03:08:01; Dark ; 42.5; 71; Iot Car ; 2.25; 7700;occ; 85; 0;46297
36; 6796.9; 07-JAN-2011 03:09:55; Dark ; 41.5; 46; Del Vel ; 1.95; 10600;occ; 83; 0;46297
37; 6964.5; 07-JAN-2011 03:12:42; Dark ; 47.0; 34; Gam2Vel ; 1.79; 23000;occ; 94; 0;46297
38; 7094.4; 07-JAN-2011 03:14:52; Dark ; 49.0; 70; Zet Pup ; 2.25; 39000;occ; 98; 0;46297
39; 7207.1; 07-JAN-2011 03:16:45; Dark ; 49.5; 117; Pi Pup ; 2.71; 3800;occ; 99; 0;46297
40; 7367.3; 07-JAN-2011 03:19:25; Dark ; 43.5; 23; 21Eps CMA ; 1.50; 26000;occ; 87; 0;46297
41; 7455.8; 07-JAN-2011 03:20:54; Dark ; 40.0; 179; 24Omi2CMA ; 3.03; 24000;occ; 80; 0;46297
42; 7595.7; 07-JAN-2011 03:23:14; Dark ; 47.0; 1; 9Alp CMA ; -1.44; 11000;occ; 94; 0;46297
43; 8032.5; 07-JAN-2011 03:30:31; Dark ; 53.0; 14; 58Alp Ori ; 0.87; 3000;occ; 106; 0;46297
44; 8205.3; 07-JAN-2011 03:33:23; Dark ; 45.5; 44; 24Gam Gem ; 1.93; 11000;occ; 91; 0;46297
45; 8305.6; 07-JAN-2011 03:35:04; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;46297
46; 8549.0; 07-JAN-2011 03:39:07; Bright; 37.5; 107; 37The Aur ; 2.65; 11000;occ; 75; 0;46297
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3; -1948.7; 07-JAN-2011 04:04:37; Bright; 49.0; 39; 85Eta UMa ; 1.85; 24000;occ; 98; 0;46297
4; -1681.8; 07-JAN-2011 04:09:04; Bright; 64.0; 180; 27Gam Boo ; 3.04; 8000;occ; 128; 0;46297
5; -1442.7; 07-JAN-2011 04:13:03; Bright; 68.0; 83; ; 2.38; 11000;occ; 136; 0;46297
6; -1116.9; 07-JAN-2011 04:18:29; Bright; 57.0; 102; 24Alp Ser ; 2.60; 4250;occ; 114; 0;46297
7; -798.4; 07-JAN-2011 04:23:48; Dark ; 45.0; 104; 27Bet Lib ; 2.61; 13100;occ; 90; 0;46297
8; -625.9; 07-JAN-2011 04:26:40; Dark ; 46.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 92; 0;46297
9; -203.5; 07-JAN-2011 04:33:42; Dark ; 47.5; 54; 5The Cen ; 2.06; 4500;occ; 95; 0;46297
10; -49.1; 07-JAN-2011 04:36:17; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;46297
11; 49.7; 07-JAN-2011 04:37:56; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46298
12; 211.7; 07-JAN-2011 04:40:38; Dark ; 47.0; 20; Bet Cru ; 1.25; 30000;occ; 94; 0;46298
13; 293.8; 07-JAN-2011 04:42:00; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46298
14; 547.3; 07-JAN-2011 04:46:13; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46298
15; 669.9; 07-JAN-2011 04:48:16; Dark ; 43.5; 71; Iot Car ; 2.25; 7700;occ; 87; 0;46298
16; 783.5; 07-JAN-2011 04:50:10; Dark ; 43.5; 46; Del Vel ; 1.95; 10600;occ; 87; 0;46298

```



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 3; -40.8; 08-JAN-2011 00:39:13; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46309

|   |          |             |           |         |   |       |      |           |   |        |            |      |    |       |
|---|----------|-------------|-----------|---------|---|-------|------|-----------|---|--------|------------|------|----|-------|
| 4;  | 57.0;    | 08-JAN-2011 | 00:40:51; | Dark    | ; | 40.0; | 77;  | Eps Cen   | ; | 2.30;  | 28000;occ; | 80;  | 0; | 46310 |
| 5;  | 218.6;   | 08-JAN-2011 | 00:43:33; | Dark    | ; | 40.5; | 20;  | Bet Cru   | ; | 1.25;  | 30000;occ; | 81;  | 0; | 46310 |
| 6;  | 305.1;   | 08-JAN-2011 | 00:44:59; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 46310 |
| 7;  | 557.2;   | 08-JAN-2011 | 00:49:11; | Dark    | ; | 53.5; | 113; | Mu Vel    | ; | 2.69;  | 5000;occ;  | 107; | 0; | 46310 |
| 8;  | 675.5;   | 08-JAN-2011 | 00:51:10; | Dark    | ; | 42.5; | 71;  | Iot Car   | ; | 2.25;  | 7700;occ;  | 85;  | 0; | 46310 |
| 9;  | 788.9;   | 08-JAN-2011 | 00:53:03; | Dark    | ; | 45.5; | 46;  | Del Vel   | ; | 1.95;  | 10600;occ; | 91;  | 0; | 46310 |
| 10;   | 955.9;   | 08-JAN-2011 | 00:55:50; | Dark    | ; | 42.0; | 34;  | Gam2Vel   | ; | 1.79;  | 23000;occ; | 84;  | 0; | 46310 |
| 11;   | 1085.9;  | 08-JAN-2011 | 00:58:00; | Dark    | ; | 47.0; | 70;  | Zet Pup   | ; | 2.25;  | 39000;occ; | 94;  | 0; | 46310 |
| 12;   | 1197.0;  | 08-JAN-2011 | 00:59:51; | Dark    | ; | 43.0; | 117; | Pi Pup    | ; | 2.71;  | 3800;occ;  | 86;  | 0; | 46310 |
| 13;   | 1356.3;  | 08-JAN-2011 | 01:02:30; | Dark    | ; | 44.5; | 23;  | 21Eps CMa | ; | 1.50;  | 26000;occ; | 89;  | 0; | 46310 |
| 14;   | 1444.2;  | 08-JAN-2011 | 01:03:58; | Dark    | ; | 42.0; | 179; | 24Omi2CMa | ; | 3.03;  | 24000;occ; | 84;  | 0; | 46310 |
| 15;   | 1583.0;  | 08-JAN-2011 | 01:06:17; | Dark    | ; | 49.0; | 1;   | 9Alp CMa  | ; | -1.44; | 11000;occ; | 98;  | 0; | 46310 |
| 16;   | 2018.7;  | 08-JAN-2011 | 01:13:33; | Dark    | ; | 46.0; | 14;  | 58Alp Ori | ; | 0.87;  | 3000;occ;  | 92;  | 0; | 46310 |
| 17;   | 2188.5;  | 08-JAN-2011 | 01:16:23; | Dark    | ; | 47.0; | 44;  | 24Gam Gem | ; | 1.93;  | 11000;occ; | 94;  | 0; | 46310 |
| 18;   | 2288.9;  | 08-JAN-2011 | 01:18:03; | Bright; | ; | 47.5; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;occ;  | 95;  | 0; | 46310 |
| 19;   | 2532.9;  | 08-JAN-2011 | 01:22:07; | Bright; | ; | 37.0; | 107; | 37The Aur | ; | 2.65;  | 11000;occ; | 74;  | 0; | 46310 |
| 20;   | 2665.3;  | 08-JAN-2011 | 01:24:19; | Bright; | ; | 38.5; | 42;  | 34Bet Aur | ; | 1.90;  | 10200;occ; | 77;  | 0; | 46310 |
| 21;   | 3660.0;  | 08-JAN-2011 | 01:40:54; | Bright; | ; | 34.0; | 60;  | 7Bet UMi  | ; | 2.08;  | 3950;occ;  | 68;  | 0; | 46310 |
| 22;   | 3904.8;  | 08-JAN-2011 | 01:44:59; | Bright; | ; | 42.5; | 119; | 14Eta Dra | ; | 2.73;  | 4700;occ;  | 85;  | 0; | 46310 |
| 23;   | 4061.7;  | 08-JAN-2011 | 01:47:36; | Bright; | ; | 26.0; | 39;  | 85Eta UMa | ; | 1.85;  | 24000;occ; | 52;  | 0; | 46310 |
| 24;   | 4332.3;  | 08-JAN-2011 | 01:52:06; | Bright; | ; | 51.5; | 180; | 27Gam Boo | ; | 3.04;  | 8000;occ;  | 103; | 0; | 46310 |
| 25;   | 4574.2;  | 08-JAN-2011 | 01:56:08; | Bright; | ; | 47.5; | 83;  |           | ; | 2.38;  | 11000;occ; | 95;  | 0; | 46310 |
| 26;   | 4901.8;  | 08-JAN-2011 | 02:01:36; | Bright; | ; | 46.0; | 102; | 24Alp Ser | ; | 2.60;  | 4250;occ;  | 92;  | 0; | 46310 |
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| 1;  | -790.9;  | 08-JAN-2011 | 02:06:57; | Dark    | ; | 47.5; | 104; | 27Bet Lib | ; | 2.61;  | 13100;occ; | 95;  | 0; | 46310 |
| 2;  | -616.2;  | 08-JAN-2011 | 02:09:52; | Dark    | ; | 46.0; | 122; | 9Alp2Lib  | ; | 2.75;  | 9700;occ;  | 92;  | 0; | 46310 |
| 3;  | -192.6;  | 08-JAN-2011 | 02:16:56; | Dark    | ; | 54.5; | 54;  | 5The Cen  | ; | 2.06;  | 4500;occ;  | 109; | 0; | 46310 |
| 4;  | -40.1;   | 08-JAN-2011 | 02:19:28; | Dark    | ; | 43.5; | 95;  | Zet Cen   | ; | 2.55;  | 26000;occ; | 87;  | 0; | 46310 |
| 5;  | 58.0;    | 08-JAN-2011 | 02:21:06; | Dark    | ; | 43.5; | 77;  | Eps Cen   | ; | 2.30;  | 28000;occ; | 87;  | 0; | 46311 |
| 6;  | 219.2;   | 08-JAN-2011 | 02:23:47; | Dark    | ; | 44.0; | 20;  | Bet Cru   | ; | 1.25;  | 30000;occ; | 88;  | 0; | 46311 |
| 7;  | 306.0;   | 08-JAN-2011 | 02:25:14; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 46311 |
| 8;  | 558.3;   | 08-JAN-2011 | 02:29:26; | Dark    | ; | 52.0; | 113; | Mu Vel    | ; | 2.69;  | 5000;occ;  | 104; | 0; | 46311 |
| 9;  | 676.0;   | 08-JAN-2011 | 02:31:24; | Dark    | ; | 40.0; | 71;  | Iot Car   | ; | 2.25;  | 7700;occ;  | 80;  | 0; | 46311 |
| 10;   | 789.5;   | 08-JAN-2011 | 02:33:18; | Dark    | ; | 41.5; | 46;  | Del Vel   | ; | 1.95;  | 10600;occ; | 83;  | 0; | 46311 |
| 11;   | 956.7;   | 08-JAN-2011 | 02:36:05; | Dark    | ; | 44.0; | 34;  | Gam2Vel   | ; | 1.79;  | 23000;occ; | 88;  | 0; | 46311 |
| 12;   | 1086.5;  | 08-JAN-2011 | 02:38:15; | Dark    | ; | 46.5; | 70;  | Zet Pup   | ; | 2.25;  | 39000;occ; | 93;  | 0; | 46311 |
| 13;   | 1197.5;  | 08-JAN-2011 | 02:40:06; | Dark    | ; | 47.0; | 117; | Pi Pup    | ; | 2.71;  | 3800;occ;  | 94;  | 0; | 46311 |
| 14;   | 1356.6;  | 08-JAN-2011 | 02:42:45; | Dark    | ; | 46.0; | 23;  | 21Eps CMa | ; | 1.50;  | 26000;occ; | 92;  | 0; | 46311 |
| 15;   | 1444.5;  | 08-JAN-2011 | 02:44:13; | Dark    | ; | 41.5; | 179; | 24Omi2CMa | ; | 3.03;  | 24000;occ; | 83;  | 0; | 46311 |
| 16;   | 1583.4;  | 08-JAN-2011 | 02:46:32; | Dark    | ; | 47.5; | 1;   | 9Alp CMa  | ; | -1.44; | 11000;occ; | 95;  | 0; | 46311 |
| 17;   | 2024.2;  | 08-JAN-2011 | 02:53:52; | Dark    | ; | 42.0; | 14;  | 58Alp Ori | ; | 0.87;  | 3000;occ;  | 84;  | 0; | 46311 |
| 18;   | 2188.4;  | 08-JAN-2011 | 02:56:37; | Dark    | ; | 44.5; | 44;  | 24Gam Gem | ; | 1.93;  | 11000;occ; | 89;  | 0; | 46311 |
| 19;   | 2288.8;  | 08-JAN-2011 | 02:58:17; | Bright; | ; | 43.0; | 151; | 13Mu Gem  | ; | 2.89;  | 3000;occ;  | 86;  | 0; | 46311 |
| 20;   | 2532.9;  | 08-JAN-2011 | 03:02:21; | Bright; | ; | 37.5; | 107; | 37The Aur | ; | 2.65;  | 11000;occ; | 75;  | 0; | 46311 |
| 21;   | 2665.2;  | 08-JAN-2011 | 03:04:33; | Bright; | ; | 36.5; | 42;  | 34Bet Aur | ; | 1.90;  | 10200;occ; | 73;  | 0; | 46311 |
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| 2;  | -2109.3; | 08-JAN-2011 | 03:25:13; | Bright; | ; | 37.5; | 119; | 14Eta Dra | ; | 2.73;  | 4700;occ;  | 75;  | 0; | 46311 |
| 3;  | -1952.6; | 08-JAN-2011 | 03:27:50; | Bright; | ; | 26.0; | 39;  | 85Eta UMa | ; | 1.85;  | 24000;occ; | 52;  | 0; | 46311 |
| 4;  | -1681.6; | 08-JAN-2011 | 03:32:21; | Bright; | ; | 68.0; | 180; | 27Gam Boo | ; | 3.04;  | 8000;occ;  | 136; | 0; | 46311 |
| 5;  | -1439.5; | 08-JAN-2011 | 03:36:23; | Bright; | ; | 69.0; | 83;  |           | ; | 2.38;  | 11000;occ; | 138; | 0; | 46311 |
| 6;  | -1111.8; | 08-JAN-2011 | 03:41:50; | Bright; | ; | 38.5; | 102; | 24Alp Ser | ; | 2.60;  | 4250;occ;  | 77;  | 0; | 46311 |
| 7;  | -790.2;  | 08-JAN-2011 | 03:47:12; | Dark    | ; | 43.5; | 104; | 27Bet Lib | ; | 2.61;  | 13100;occ; | 87;  | 0; | 46311 |
| 8;  | -615.4;  | 08-JAN-2011 | 03:50:07; | Dark    | ; | 46.0; | 122; | 9Alp2Lib  | ; | 2.75;  | 9700;occ;  | 92;  | 0; | 46311 |
| 9;  | -191.8;  | 08-JAN-2011 | 03:57:10; | Dark    | ; | 47.5; | 54;  | 5The Cen  | ; | 2.06;  | 4500;occ;  | 95;  | 0; | 46311 |
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| 11;   | 58.6;    | 08-JAN-2011 | 04:01:21; | Dark    | ; | 41.0; | 77;  | Eps Cen   | ; | 2.30;  | 28000;occ; | 82;  | 0; | 46312 |
| 12;   | 220.1;   | 08-JAN-2011 | 04:04:02; | Dark    | ; | 41.5; | 20;  | Bet Cru   | ; | 1.25;  | 30000;occ; | 83;  | 0; | 46312 |
| 13;   | 307.0;   | 08-JAN-2011 | 04:05:29; | Dark    | ; | 59.5; | 0;   |           | ; | 0.00;  | 0;occ;     | 119; | 0; | 46312 |
| 14;   | 559.2;   | 08-JAN-2011 | 04:09:41; | Dark    | ; | 46.5; | 113; | Mu Vel    | ; | 2.69;  | 5000;occ;  | 93;  | 0; | 46312 |
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| 16;   | 790.2;   | 08-JAN-2011 | 04:13:32; | Dark    | ; | 44.0; | 46;  | Del Vel   | ; | 1.95;  | 10600;occ; | 88;  | 0; | 46312 |
| 17;   | 957.1;   | 08-JAN-2011 | 04:16:19; | Dark    | ; | 46.0; | 34;  | Gam2Vel   | ; | 1.79;  | 23000;occ; | 92;  | 0; | 46312 |
| 18;   | 1087.1;  | 08-JAN-2011 | 04:18:29; | Dark    | ; | 48.0; | 70;  | Zet Pup   | ; | 2.25;  | 39000;occ; | 96;  | 0; | 46312 |
| 19;   | 1198.1;  | 08-JAN-2011 | 04:20:20; | Dark    | ; | 48.5; | 117; | Pi Pup    | ; | 2.71;  | 3800;occ;  | 97;  | 0; | 46312 |
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| 21;   | 1444.9;  | 08-JAN-2011 | 04:24:27; | Dark    | ; | 43.5; | 179; | 24Omi2CMa | ; | 3.03;  | 24000;occ; | 87;  | 0; | 46312 |
| 22;   | 1583.6;  | 08-JAN-2011 | 04:26:46; | Dark    | ; | 47.5; | 1;   | 9Alp CMa  | ; | -1.44; | 11000;occ; | 95;  | 0; | 46312 |



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15; 790.8; 08-JAN-2011 05:53:47; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;46313
16; 957.5; 08-JAN-2011 05:56:34; Dark ; 47.5; 34; Gam2Vel ; 1.79; 23000;occ; 95; 0;46313
17; 1087.4; 08-JAN-2011 05:58:44; Dark ; 45.5; 70; Zet Pup ; 2.25; 39000;occ; 91; 0;46313
18; 1198.3; 08-JAN-2011 06:00:35; Dark ; 47.0; 117; Pi Pup ; 2.71; 3800;occ; 94; 0;46313
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20; 1444.9; 08-JAN-2011 06:04:41; Dark ; 43.5; 179; 240mi2CMA ; 3.03; 24000;occ; 87; 0;46313
21; 1583.8; 08-JAN-2011 06:07:00; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;46313
22; 2078.7; 08-JAN-2011 06:15:15; Dark ; 49.0; 153; 3Bet CMI ; 2.89; 13100;occ; 98; 0;46313
23; 2188.1; 08-JAN-2011 06:17:04; Dark ; 44.5; 44; 24Gam Gem ; 1.93; 11000;occ; 89; 0;46313
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25; 2532.7; 08-JAN-2011 06:22:49; Bright; 38.0; 107; 37The Aur ; 2.65; 11000;occ; 76; 0;46313
26; 2665.2; 08-JAN-2011 06:25:02; Bright; 37.0; 42; 34Bet Aur ; 1.90; 10200;occ; 74; 0;46313
27; 3659.7; 08-JAN-2011 06:41:36; Bright; 22.0; 60; 7Bet UMi ; 2.08; 3950;occ; 44; 0;46313
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5; 1446.6; 08-JAN-2011 21:06:49; Dark ; 42.5; 179; 240mi2CMA ; 3.03; 24000;occ; 85; 0;46322
6; 1584.8; 08-JAN-2011 21:09:07; Dark ; 48.5; 1; 9Alp CMA ; -1.44; 11000;occ; 97; 0;46322
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9; 2287.4; 08-JAN-2011 21:20:50; Bright; 56.0; 151; 13Mu Gem ; 2.89; 3000;occ; 112; 0;46322
10; 2531.7; 08-JAN-2011 21:24:54; Bright; 37.0; 107; 37The Aur ; 2.65; 11000;occ; 74; 0;46322
11; 2663.8; 08-JAN-2011 21:27:06; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;46322
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13; 3904.7; 08-JAN-2011 21:47:47; Bright; 37.5; 119; 14Eta Dra ; 2.73; 4700;occ; 75; 0;46322
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3; -228.2; 08-JAN-2011 22:19:08; Dark ; 39.0; 109; Bet Lup ; 2.68; 26000;occ; 78; 0;46322
4; -138.2; 08-JAN-2011 22:20:38; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;46322
5; -31.6; 08-JAN-2011 22:22:25; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46322
6; 65.5; 08-JAN-2011 22:24:02; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;46323
7; 226.5; 08-JAN-2011 22:26:43; Dark ; 44.5; 20; Bet Cru ; 1.25; 30000;occ; 89; 0;46323
8; 317.3; 08-JAN-2011 22:28:14; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46323
9; 568.3; 08-JAN-2011 22:32:25; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46323
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22; 6239.9; 08-JAN-2011 20:46:28; Dark ; 43.5; 20; Bet Cru ; 1.25; 30000;occ; 87; 0;46322  
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```

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16; 796.8; 09-JAN-2011 03:36:55; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;46326
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/nas3/ENVISAT/GOMOS/GOM\_NL\_\_0P/GOM\_NL\_\_0PNPDK20110109\_103101\_000060153098\_00195\_46330\_3133.N1

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 11; 4909.7; 09-JAN-2011 11:26:24; Bright; 40.5; 102; 24Alp Ser ; 2.60; 4250;occ; 81; 0;46330  
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 13; 5413.6; 09-JAN-2011 11:34:48; Dark ; 47.5; 122; 9Alp2Lib ; 2.75; 9700;occ; 95; 0;46330  
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 19; 6339.8; 09-JAN-2011 13:30:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46332  
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24; 7109.3; 09-JAN-2011 13:43:18; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;46332
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26; 7375.6; 09-JAN-2011 13:47:44; Dark ; 44.5; 23; 21Eps CMa ; 1.50; 26000;occ; 89; 0;46332
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16; 5881.3; 09-JAN-2011 15:03:04; Dark ; 46.5; 78; Alp Lup ; 2.30; 28000;occ; 93; 0;46332
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13; 1205.9; 10-JAN-2011 01:26:47; Dark ; 41.0; 117; Pi Pup ; 2.71; 3800;occ; 82; 0;46339
14; 1363.2; 10-JAN-2011 01:29:24; Dark ; 45.0; 23; 21Eps CMA ; 1.50; 26000;occ; 90; 0;46339
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16; 1587.1; 10-JAN-2011 01:33:08; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;46339
17; 2020.1; 10-JAN-2011 01:40:21; Dark ; 55.5; 8; 10Alp CMI ; 0.40; 6500;occ; 111; 0;46339
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19; 2284.8; 10-JAN-2011 01:44:45; Bright; 46.5; 151; 13Mu Gem ; 2.89; 3000;occ; 93; 0;46339
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23; 3904.6; 10-JAN-2011 02:11:45; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46339
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25; 4581.4; 10-JAN-2011 02:23:02; Bright; 71.0; 83; ; 2.38; 11000;occ; 142; 0;46339
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30; 5995.1; 10-JAN-2011 02:46:36; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46339
31; 6090.6; 10-JAN-2011 02:48:11; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;46340
32; 6250.7; 10-JAN-2011 02:50:51; Dark ; 42.5; 20; Bet Cru ; 1.25; 30000;occ; 85; 0;46340
33; 6347.3; 10-JAN-2011 02:52:28; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46340

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34; 6596.7; 10-JAN-2011 02:56:37; Dark ; 50.0; 113; Mu Vel ; 2.69; 5000;occ; 100; 0;46340
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36; 6817.3; 10-JAN-2011 03:00:18; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46340
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39; 7220.4; 10-JAN-2011 03:07:01; Dark ; 48.0; 117; Pi Pup ; 2.71; 3800;occ; 96; 0;46340
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41; 7464.2; 10-JAN-2011 03:11:05; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46340
42; 7601.2; 10-JAN-2011 03:13:22; Dark ; 50.5; 1; 9Alp CMA ; -1.44; 11000;occ; 101; 0;46340
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3; -1681.8; 10-JAN-2011 03:59:07; Bright; 70.0; 180; 27Gam Boo ; 3.04; 8000;occ; 140; 0;46340
4; -1432.3; 10-JAN-2011 04:03:16; Bright; 71.0; 83; ; 2.38; 11000;occ; 142; 0;46340
5; -1100.3; 10-JAN-2011 04:08:48; Bright; 58.0; 102; 24Alp Ser ; 2.60; 4250;occ; 116; 0;46340
6; -772.2; 10-JAN-2011 04:14:16; Dark ; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0;46340
7; -592.3; 10-JAN-2011 04:17:16; Dark ; 48.0; 122; 9Alp2Lib ; 2.75; 9700;occ; 96; 0;46340
8; -218.1; 10-JAN-2011 04:23:31; Dark ; 39.5; 109; Bet Lup ; 2.68; 26000;occ; 79; 0;46340
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11; 77.3; 10-JAN-2011 04:28:26; Dark ; 40.0; 77; Eps Cen ; 2.30; 28000;occ; 80; 0;46341
12; 237.4; 10-JAN-2011 04:31:06; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;46341
13; 334.3; 10-JAN-2011 04:32:43; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46341
14; 583.3; 10-JAN-2011 04:36:52; Dark ; 48.0; 113; Mu Vel ; 2.69; 5000;occ; 96; 0;46341
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16; 804.1; 10-JAN-2011 04:40:33; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;46341
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19; 1206.6; 10-JAN-2011 04:47:15; Dark ; 44.5; 117; Pi Pup ; 2.71; 3800;occ; 89; 0;46341
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12; 4583.6; 10-JAN-2011 15:44:56; Bright; 72.0; 83; ; 2.38; 11000;occ; 144; 0;46347
13; 4916.6; 10-JAN-2011 15:50:29; Bright; 59.0; 102; 24Alp Ser ; 2.60; 4250;occ; 118; 0;46347

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23; 6708.3; 10-JAN-2011 16:20:21; Dark ; 48.5; 71; Iot Car ; 2.25; 7700;occ; 97; 0;46348
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 3; 2003.1; 14-JAN-2011 12:35:01; Dark ; 56.5; 8; 10Alp CMi ; 0.40; 6500;occ; 113; 0;46403
 4; 2176.3; 14-JAN-2011 12:37:54; Dark ; 46.5; 44; 24Gam Gem ; 1.93; 11000;occ; 93; 0;46403
 5; 2279.2; 14-JAN-2011 12:39:37; Bright; 44.5; 151; 13Mu Gem ; 2.89; 3000;occ; 89; 0;46403
 6; 2458.3; 14-JAN-2011 12:42:36; Bright; 48.0; 17; 78Bet Gem ; 1.16; 4500;occ; 96; 0;46403
 7; 3646.3; 14-JAN-2011 13:02:24; Bright; 35.5; 60; 7Bet UMi ; 2.08; 3950;occ; 71; 0;46403
 8; 3902.9; 14-JAN-2011 13:06:40; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;46403

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9; 4430.4; 14-JAN-2011 13:15:28; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;46403
10; 4562.2; 14-JAN-2011 13:17:40; Bright; 63.0; 67; 5Alp CrB ; 2.22; 11000;occ; 126; 0;46403
11; 4941.4; 14-JAN-2011 13:23:59; Bright; 61.0; 102; 24Alp Ser ; 2.60; 4250;occ; 122; 0;46403
12; 5069.7; 14-JAN-2011 13:26:07; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;46403
13; 5285.8; 14-JAN-2011 13:29:43; Dark ; 51.5; 104; 27Bet Lib ; 2.61; 13100;occ; 103; 0;46403
14; 5403.4; 14-JAN-2011 13:31:41; Dark ; 46.0; 80; 7Del Sco ; 2.32; 30000;occ; 92; 0;46403
15; 5833.9; 14-JAN-2011 13:38:51; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;46403
16; 5924.5; 14-JAN-2011 13:40:22; Dark ; 41.5; 78; Alp Lup ; 2.30; 28000;occ; 83; 0;46403
17; 6044.0; 14-JAN-2011 13:42:22; Dark ; 42.5; 95; Zet Cen ; 2.55; 26000;occ; 85; 0;46404
18; 6289.9; 14-JAN-2011 13:46:27; Dark ; 40.0; 20; Bet Cru ; 1.25; 30000;occ; 80; 0;46404
19; 6407.4; 14-JAN-2011 13:48:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46404
20; 6733.9; 14-JAN-2011 13:53:51; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46404
21; 6846.0; 14-JAN-2011 13:55:44; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;46404
22; 7008.8; 14-JAN-2011 13:58:26; Dark ; 42.5; 34; Gam2Vel ; 1.79; 23000;occ; 85; 0;46404
23; 7136.9; 14-JAN-2011 14:00:34; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;46404
24; 7365.1; 14-JAN-2011 14:04:23; Dark ; 43.0; 88; 31Eta CMa ; 2.45; 20000;occ; 86; 0;46404
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2; 1596.0; 14-JAN-2011 14:08:28; Dark ; 46.5; 1; 9Alp CMA ; -1.44; 11000;occ; 93; 0;46404
3; 2003.0; 14-JAN-2011 14:15:14; Dark ; 53.5; 8; 10Alp CMI ; 0.40; 6500;occ; 107; 0;46404
4; 2176.4; 14-JAN-2011 14:18:08; Dark ; 49.5; 44; 24Gam Gem ; 1.93; 11000;occ; 99; 0;46404
5; 2279.0; 14-JAN-2011 14:19:51; Bright; 42.0; 151; 13Mu Gem ; 2.89; 3000;occ; 84; 0;46404
6; 2457.6; 14-JAN-2011 14:22:49; Bright; 49.0; 17; 78Bet Gem ; 1.16; 4500;occ; 98; 0;46404
7; 3646.1; 14-JAN-2011 14:42:38; Bright; 40.0; 60; 7Bet UMI ; 2.08; 3950;occ; 80; 0;46404
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12; 5070.1; 14-JAN-2011 15:06:22; Bright; 53.5; 120; 1Del Oph ; 2.73; 3200;occ; 107; 0;46404
13; 5286.5; 14-JAN-2011 15:09:58; Dark ; 48.5; 104; 27Bet Lib ; 2.61; 13100;occ; 97; 0;46404
14; 5404.0; 14-JAN-2011 15:11:56; Dark ; 42.0; 80; 7Del Sco ; 2.32; 30000;occ; 84; 0;46404
15; 5834.5; 14-JAN-2011 15:19:06; Dark ; 41.5; 109; Bet Lup ; 2.68; 26000;occ; 83; 0;46404
16; 5925.1; 14-JAN-2011 15:20:37; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;46404
17; 6044.8; 14-JAN-2011 15:22:36; Dark ; 41.0; 95; Zet Cen ; 2.55; 26000;occ; 82; 0;46405
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19; 6408.4; 14-JAN-2011 15:28:40; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46405
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21; 6846.4; 14-JAN-2011 15:35:58; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;46405
22; 7009.2; 14-JAN-2011 15:38:41; Dark ; 40.5; 34; Gam2Vel ; 1.79; 23000;occ; 81; 0;46405
23; 7137.3; 14-JAN-2011 15:40:49; Dark ; 43.5; 70; Zet Pup ; 2.25; 39000;occ; 87; 0;46405
24; 7365.4; 14-JAN-2011 15:44:37; Dark ; 12.0; 88; 31Eta CMA ; 2.45; 20000;occ; 24; 0;46405
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2; 1463.0; 14-JAN-2011 15:46:29; Dark ; 41.5; 179; 240mi2CMA ; 3.03; 24000;occ; 83; 0;46405
3; 1596.3; 14-JAN-2011 15:48:42; Dark ; 47.5; 1; 9Alp CMA ; -1.44; 11000;occ; 95; 0;46405
4; 2002.8; 14-JAN-2011 15:55:28; Dark ; 55.5; 8; 10Alp CMI ; 0.40; 6500;occ; 111; 0;46405
5; 2176.3; 14-JAN-2011 15:58:22; Dark ; 50.0; 44; 24Gam Gem ; 1.93; 11000;occ; 100; 0;46405
6; 2278.9; 14-JAN-2011 16:00:05; Bright; 41.5; 151; 13Mu Gem ; 2.89; 3000;occ; 83; 0;46405
7; 2457.2; 14-JAN-2011 16:03:03; Bright; 48.5; 17; 78Bet Gem ; 1.16; 4500;occ; 97; 0;46405
8; 3645.8; 14-JAN-2011 16:22:51; Bright; 40.5; 60; 7Bet UMI ; 2.08; 3950;occ; 81; 0;46405
9; 3903.0; 14-JAN-2011 16:27:09; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46405
10; 4430.9; 14-JAN-2011 16:35:56; Bright; 36.0; 133; 40Zet Her ; 2.81; 6000;occ; 72; 0;46405
11; 4562.9; 14-JAN-2011 16:38:08; Bright; 63.0; 67; 5Alp CrB ; 2.22; 11000;occ; 126; 0;46405
12; 4942.3; 14-JAN-2011 16:44:28; Bright; 43.5; 102; 24Alp Ser ; 2.60; 4250;occ; 87; 0;46405
13; 5070.6; 14-JAN-2011 16:46:36; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;46405
14; 5287.2; 14-JAN-2011 16:50:13; Dark ; 49.5; 104; 27Bet Lib ; 2.61; 13100;occ; 99; 0;46405
15; 5404.6; 14-JAN-2011 16:52:10; Dark ; 44.5; 80; 7Del Sco ; 2.32; 30000;occ; 89; 0;46405
16; 5835.2; 14-JAN-2011 16:59:21; Dark ; 40.5; 109; Bet Lup ; 2.68; 26000;occ; 81; 0;46405
17; 5925.9; 14-JAN-2011 17:00:51; Dark ; 42.0; 78; Alp Lup ; 2.30; 28000;occ; 84; 0;46405
18; 6045.7; 14-JAN-2011 17:02:51; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46406
19; 6291.2; 14-JAN-2011 17:06:57; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46406
20; 6409.4; 14-JAN-2011 17:08:55; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46406
21; 6735.3; 14-JAN-2011 17:14:21; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46406
22; 6846.9; 14-JAN-2011 17:16:12; Dark ; 42.5; 46; Del Vel ; 1.95; 10600;occ; 85; 0;46406
23; 7009.8; 14-JAN-2011 17:18:55; Dark ; 42.0; 34; Gam2Vel ; 1.79; 23000;occ; 84; 0;46406
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3; 1462.8; 14-JAN-2011 17:26:42; Dark ; 42.5; 179; 240mi2CMa ; 3.03; 24000;occ; 85; 0;46406
4; 1596.2; 14-JAN-2011 17:28:56; Dark ; 46.5; 1; 9Alp CMa ; -1.44; 11000;occ; 93; 0;46406
5; 2002.4; 14-JAN-2011 17:35:42; Dark ; 62.5; 8; 10Alp CMi ; 0.40; 6500;occ; 125; 0;46406
6; 2176.1; 14-JAN-2011 17:38:36; Dark ; 55.0; 44; 24Gam Gem ; 1.93; 11000;occ; 110; 0;46406
7; 2278.7; 14-JAN-2011 17:40:18; Bright; 42.0; 151; 13Mu Gem ; 2.89; 3000;occ; 84; 0;46406
8; 2456.6; 14-JAN-2011 17:43:16; Bright; 47.5; 17; 78Bet Gem ; 1.16; 4500;occ; 95; 0;46406
9; 3645.7; 14-JAN-2011 18:03:05; Bright; 40.5; 60; 7Bet UMi ; 2.08; 3950;occ; 81; 0;46406
10; 3902.8; 14-JAN-2011 18:07:23; Bright; 38.5; 119; 14Eta Dra ; 2.73; 4700;occ; 77; 0;46406
11; 4431.1; 14-JAN-2011 18:16:11; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;46406
12; 4563.1; 14-JAN-2011 18:18:23; Bright; 63.0; 67; 5Alp CrB ; 2.22; 11000;occ; 126; 0;46406
13; 4942.9; 14-JAN-2011 18:24:43; Bright; 62.0; 102; 24Alp Ser ; 2.60; 4250;occ; 124; 0;46406
14; 5070.9; 14-JAN-2011 18:26:51; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;46406
15; 5288.1; 14-JAN-2011 18:30:28; Dark ; 50.0; 104; 27Bet Lib ; 2.61; 13100;occ; 100; 0;46406
16; 5405.1; 14-JAN-2011 18:32:25; Dark ; 41.5; 80; 7Del Sco ; 2.32; 30000;occ; 83; 0;46406
17; 5836.0; 14-JAN-2011 18:39:36; Dark ; 42.0; 109; Bet Lup ; 2.68; 26000;occ; 84; 0;46406
18; 5926.4; 14-JAN-2011 18:41:06; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;46406
19; 6046.4; 14-JAN-2011 18:43:06; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46407
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21; 6410.3; 14-JAN-2011 18:49:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46407
22; 6735.5; 14-JAN-2011 18:54:35; Dark ; 42.0; 71; Iot Car ; 2.25; 7700;occ; 84; 0;46407
23; 6847.3; 14-JAN-2011 18:56:27; Dark ; 40.5; 46; Del Vel ; 1.95; 10600;occ; 81; 0;46407
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3; 1351.8; 14-JAN-2011 19:05:06; Dark ; 43.0; 88; 31Eta CMa ; 2.45; 20000;occ; 86; 0;46407
4; 1463.1; 14-JAN-2011 19:06:57; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;46407
5; 1599.6; 14-JAN-2011 19:09:13; Dark ; 46.0; 1; 9Alp CMa ; -1.44; 11000;occ; 92; 0;46407
6; 2002.1; 14-JAN-2011 19:15:56; Dark ; 55.5; 8; 10Alp CMi ; 0.40; 6500;occ; 111; 0;46407
7; 2176.0; 14-JAN-2011 19:18:50; Dark ; 42.0; 44; 24Gam Gem ; 1.93; 11000;occ; 84; 0;46407
8; 2278.7; 14-JAN-2011 19:20:32; Bright; 42.0; 151; 13Mu Gem ; 2.89; 3000;occ; 84; 0;46407
9; 2456.3; 14-JAN-2011 19:23:30; Bright; 48.5; 17; 78Bet Gem ; 1.16; 4500;occ; 97; 0;46407
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14; 4943.4; 14-JAN-2011 20:04:57; Bright; 62.0; 102; 24Alp Ser ; 2.60; 4250;occ; 124; 0;46407
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16; 5288.8; 14-JAN-2011 20:10:43; Dark ; 49.0; 104; 27Bet Lib ; 2.61; 13100;occ; 98; 0;46407
17; 5405.5; 14-JAN-2011 20:12:39; Dark ; 44.5; 80; 7Del Sco ; 2.32; 30000;occ; 89; 0;46407
18; 5836.5; 14-JAN-2011 20:19:50; Dark ; 41.0; 109; Bet Lup ; 2.68; 26000;occ; 82; 0;46407
19; 5926.8; 14-JAN-2011 20:21:21; Dark ; 41.0; 78; Alp Lup ; 2.30; 28000;occ; 82; 0;46407
20; 6047.2; 14-JAN-2011 20:23:21; Dark ; 43.0; 95; Zet Cen ; 2.55; 26000;occ; 86; 0;46408
21; 6292.3; 14-JAN-2011 20:27:26; Dark ; 45.5; 20; Bet Cru ; 1.25; 30000;occ; 91; 0;46408
22; 6411.1; 14-JAN-2011 20:29:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46408
23; 6735.9; 14-JAN-2011 20:34:50; Dark ; 40.5; 71; Iot Car ; 2.25; 7700;occ; 81; 0;46408
24; 6847.7; 14-JAN-2011 20:36:42; Dark ; 44.5; 46; Del Vel ; 1.95; 10600;occ; 89; 0;46408
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2; -607.0; 15-JAN-2011 01:13:23; Dark ; 45.5; 80; 7Del Sco ; 2.32; 30000;occ; 91; 0;46410
3; -85.0; 15-JAN-2011 01:22:05; Dark ; 43.0; 78; Alp Lup ; 2.30; 28000;occ; 86; 0;46410
4; 35.5; 15-JAN-2011 01:24:05; Dark ; 45.5; 95; Zet Cen ; 2.55; 26000;occ; 91; 0;46411
5; 280.0; 15-JAN-2011 01:28:10; Dark ; 42.0; 20; Bet Cru ; 1.25; 30000;occ; 84; 0;46411
6; 399.9; 15-JAN-2011 01:30:10; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46411
7; 723.1; 15-JAN-2011 01:35:33; Dark ; 41.0; 71; Iot Car ; 2.25; 7700;occ; 82; 0;46411
8; 834.5; 15-JAN-2011 01:37:24; Dark ; 39.5; 46; Del Vel ; 1.95; 10600;occ; 79; 0;46411
9; 997.3; 15-JAN-2011 01:40:07; Dark ; 45.5; 34; Gam2Vel ; 1.79; 23000;occ; 91; 0;46411
10; 1125.4; 15-JAN-2011 01:42:15; Dark ; 44.0; 70; Zet Pup ; 2.25; 39000;occ; 88; 0;46411
11; 1352.6; 15-JAN-2011 01:46:02; Dark ; 44.0; 88; 31Eta CMa ; 2.45; 20000;occ; 88; 0;46411
12; 1463.8; 15-JAN-2011 01:47:54; Dark ; 41.5; 179; 240mi2CMa ; 3.03; 24000;occ; 83; 0;46411
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17; 3645.0; 15-JAN-2011 02:24:15; Bright; 39.0; 60; 7Bet UMi ; 2.08; 3950;occ; 78; 0;46411
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22; 5073.0; 15-JAN-2011 02:48:03; Bright; 56.0; 120; 1Del Oph ; 2.73; 3200;occ; 112; 0;46411
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26; 6050.6; 15-JAN-2011 03:04:20; Dark ; 43.5; 95; Zet Cen ; 2.55; 26000;occ; 87; 0;46412
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28; 6414.8; 15-JAN-2011 03:10:25; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46412
29; 6737.8; 15-JAN-2011 03:15:48; Dark ; 40.0; 71; Iot Car ; 2.25; 7700;occ; 80; 0;46412
30; 6849.3; 15-JAN-2011 03:17:39; Dark ; 43.0; 46; Del Vel ; 1.95; 10600;occ; 86; 0;46412
31; 7011.8; 15-JAN-2011 03:20:22; Dark ; 43.5; 34; Gam2Vel ; 1.79; 23000;occ; 87; 0;46412
32; 7139.9; 15-JAN-2011 03:22:30; Dark ; 45.0; 70; Zet Pup ; 2.25; 39000;occ; 90; 0;46412
33; 7367.1; 15-JAN-2011 03:26:17; Dark ; 43.5; 88; 31Eta CMa ; 2.45; 20000;occ; 87; 0;46412
34; 7478.1; 15-JAN-2011 03:28:08; Dark ; 42.0; 179; 240mi2CMA ; 3.03; 24000;occ; 84; 0;46412
35; 8015.2; 15-JAN-2011 03:37:05; Dark ; 55.0; 8; 10Alp CMi ; 0.40; 6500;occ; 110; 0;46412
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37; 8292.6; 15-JAN-2011 03:41:42; Bright; 41.0; 151; 13Mu Gem ; 2.89; 3000;occ; 82; 0;46412
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23; 2445.7; 16-JAN-2011 06:28:14; Bright; 46.5; 17; 78Bet Gem ; 1.16; 4500;occ; 93; 0;46428
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 22; 6177.1; 18-JAN-2011 19:38:50; Dark ; 42.5; 77; Eps Cen ; 2.30; 28000;occ; 85; 0;46465  
 23; 6375.6; 18-JAN-2011 19:42:08; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46465  
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 22; 3898.8; 19-JAN-2011 01:41:48; Bright; 38.0; 119; 14Eta Dra ; 2.73; 4700;occ; 76; 0;46468  
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 6; 166.0; 19-JAN-2011 02:19:49; Dark ; 42.0; 77; Eps Cen ; 2.30; 28000;occ; 84; 0;46469  
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 9; 684.1; 19-JAN-2011 02:28:27; Dark ; 45.0; 113; Mu Vel ; 2.69; 5000;occ; 90; 0;46469  
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12; -36.8; 19-JAN-2011 03:56:40; Dark ; 51.5; 54; 5The Cen ; 2.06; 4500;occ; 103; 0;46469  
13; 166.8; 19-JAN-2011 04:00:04; Dark ; 43.0; 77; Eps Cen ; 2.30; 28000;occ; 86; 0;46470  
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17; 796.8; 19-JAN-2011 04:10:34; Dark ; 45.5; 91; Kap Vel ; 2.49; 26000;occ; 91; 0;46470  
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23; 2324.9; 19-JAN-2011 04:36:02; Bright; 40.5; 170; 27Eps Gem ; 3.00; 9700;occ; 81; 0;46470  
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5; -1037.6; 19-JAN-2011 05:20:13; Bright; 66.0; 102; 24Alp Ser ; 2.60; 4250;occ; 132; 0;46470  
6; -913.7; 19-JAN-2011 05:22:17; Bright; 59.0; 120; 1Del Oph ; 2.73; 3200;occ; 118; 0;46470  
7; -672.4; 19-JAN-2011 05:26:19; Dark ; 55.0; 104; 27Bet Lib ; 2.61; 13100;occ; 110; 0;46470  
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22; 2173.3; 19-JAN-2011 06:13:44; Dark ; 53.0; 44; 24Gam Gem ; 1.93; 11000;occ; 106; 0;46471  
23; 2324.8; 19-JAN-2011 06:16:16; Bright; 38.5; 170; 27Eps Gem ; 3.00; 9700;occ; 77; 0;46471  
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13; 4579.8; 19-JAN-2011 21:55:57; Bright; 47.0; 67; 5Alp CrB ; 2.22; 11000;occ; 94; 0;46480  
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 6; 3627.4; 21-JAN-2011 15:25:55; Bright; 39.5; 60; 7Bet UMi ; 2.08; 3950;occ; 79; 0;46505



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14; 5469.6; 22-JAN-2011 18:40:21; Dark ; 54.5; 16; 21Alp Sco ; 1.02; 3000;occ; 109; 0;46521
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16; 5917.4; 22-JAN-2011 18:47:49; Dark ; 44.0; 109; Bet Lup ; 2.68; 26000;occ; 88; 0;46521

```

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17; 6036.3; 22-JAN-2011 18:49:48; Dark ; 53.0; 54; 5The Cen ; 2.06; 4500;occ; 106; 0;46522
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19; 6249.1; 22-JAN-2011 18:53:21; Dark ; 52.5; 123; Iot Cen ; 2.75; 10200;occ; 105; 0;46522
20; 6407.1; 22-JAN-2011 18:55:59; Dark ; 41.5; 12; Alp1Cru ; 0.77; 30000;occ; 83; 0;46522
21; 6515.1; 22-JAN-2011 18:57:47; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46522
22; 6736.4; 22-JAN-2011 19:01:28; Dark ; 44.5; 113; Mu Vel ; 2.69; 5000;occ; 89; 0;46522
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12; 4447.3; 22-JAN-2011 20:03:33; Bright; 57.0; 133; 40Zet Her ; 2.81; 6000;occ; 114; 0;46522
13; 4590.5; 22-JAN-2011 20:05:56; Bright; 49.5; 67; 5Alp CrB ; 2.22; 11000;occ; 99; 0;46522
14; 5008.1; 22-JAN-2011 20:12:54; Bright; 52.0; 102; 24Alp Ser ; 2.60; 4250;occ; 104; 0;46522
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19; 6037.2; 22-JAN-2011 20:30:03; Dark ; 55.0; 54; 5The Cen ; 2.06; 4500;occ; 110; 0;46523
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23; 6515.9; 22-JAN-2011 20:38:02; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46523
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 8; 725.1; 23-JAN-2011 01:42:27; Dark ; 47.0; 113; Mu Vel ; 2.69; 5000;occ; 94; 0;46526
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13; 1984.4; 23-JAN-2011 02:03:26; Dark ; 41.0; 8; 10Alp CMi ; 0.40; 6500;occ; 82; 0;46526
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18; 3893.7; 23-JAN-2011 02:35:15; Bright; 39.0; 119; 14Eta Dra ; 2.73; 4700;occ; 78; 0;46526
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21; 4591.6; 23-JAN-2011 02:46:53; Bright; 72.0; 67; 5Alp CrB ; 2.22; 11000;occ; 144; 0;46526
22; 5010.7; 23-JAN-2011 02:53:52; Bright; 53.5; 102; 24Alp Ser ; 2.60; 4250;occ; 107; 0;46526
23; 5203.2; 23-JAN-2011 02:57:05; Dark ; 46.0; 98; 13Zet Oph ; 2.57; 30000;occ; 92; 0;46526
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30; 6740.0; 23-JAN-2011 03:22:42; Dark ; 53.5; 113; Mu Vel ; 2.69; 5000;occ; 107; 0;46527
31; 6836.3; 23-JAN-2011 03:24:18; Dark ; 40.0; 91; Kap Vel ; 2.49; 26000;occ; 80; 0;46527
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33; 7177.1; 23-JAN-2011 03:29:59; Dark ; 43.0; 70; Zet Pup ; 2.25; 39000;occ; 86; 0;46527
34; 7446.4; 23-JAN-2011 03:34:28; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;46527

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4; -1566.1; 23-JAN-2011 04:24:44; Bright; 58.0; 133; 40Zet Her ; 2.81; 6000;occ; 116; 0;46527
5; -1422.4; 23-JAN-2011 04:27:07; Bright; 50.5; 67; 5Alp CrB ; 2.22; 11000;occ; 101; 0;46527
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16; 822.8; 23-JAN-2011 05:04:33; Dark ; 41.0; 91; Kap Vel ; 2.49; 26000;occ; 82; 0;46528
17; 1021.7; 23-JAN-2011 05:07:52; Dark ; 53.0; 65; Lam Vel ; 2.20; 4400;occ; 106; 0;46528
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19; 1432.7; 23-JAN-2011 05:14:43; Dark ; 43.5; 132; 15Rho Pup ; 2.80; 6900;occ; 87; 0;46528
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5; -1001.9; 23-JAN-2011 06:14:22; Bright; 57.5; 102; 24Alp Ser ; 2.60; 4250;occ; 115; 0;46528
6; -809.9; 23-JAN-2011 06:17:34; Dark ; 45.0; 98; 13Zet Oph ; 2.57; 30000;occ; 90; 0;46528
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5; 41.3; 23-JAN-2011 21:33:51; Dark ; 53.5; 54; 5The Cen ; 2.06; 4500;occ; 107; 0;46538
6; 195.3; 23-JAN-2011 21:36:25; Dark ; 42.0; 10; Bet Cen ; 0.61; 28000;occ; 84; 0;46538
7; 401.9; 23-JAN-2011 21:39:52; Dark ; 44.0; 12; Alp1Cru ; 0.77; 30000;occ; 88; 0;46538
8; 515.1; 23-JAN-2011 21:41:45; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;46538
9; 733.2; 23-JAN-2011 21:45:23; Dark ; 50.5; 113; Mu Vel ; 2.69; 5000;occ; 101; 0;46538
10; 827.0; 23-JAN-2011 21:46:57; Dark ; 39.0; 91; Kap Vel ; 2.49; 26000;occ; 78; 0;46538
11; 1026.1; 23-JAN-2011 21:50:16; Dark ; 49.0; 65; Lam Vel ; 2.20; 4400;occ; 98; 0;46538
12; 1434.7; 23-JAN-2011 21:57:05; Dark ; 44.5; 132; 15Rho Pup ; 2.80; 6900;occ; 89; 0;46538
13; 1983.7; 23-JAN-2011 22:06:14; Dark ; 57.0; 8; 10Alp CMi ; 0.40; 6500;occ; 114; 0;46538
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