# GOMOS Daily Report 21-MAR-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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### 1. General Info

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.

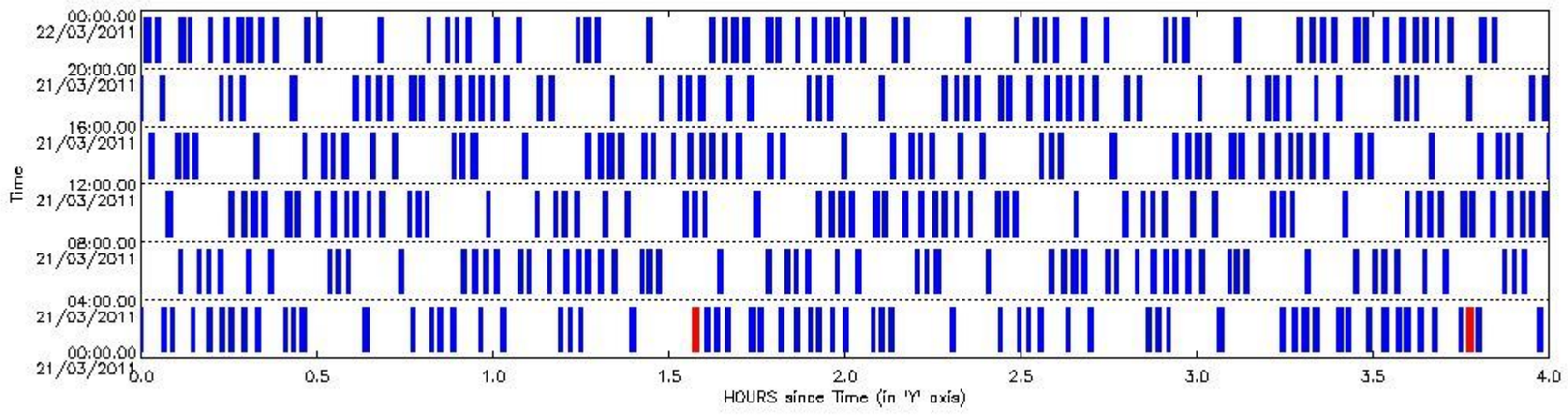
| Item | Value |
|---|---|
| Time of report generation | 24MAR2011 07:05:59 |
| Data source version | GOMOS/5.01 |
| Start time of products | 21MAR2011 00:04:55 |
| Stop time of products | 21MAR2011 23:50:22 |
| Store outputs in DB | Yes |
| Nb of level 1b prods | 351 |
| Nb of prods with errors | 2 |

## *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 |
|---|---|---|---|
| 21-MAR-2011 01:33:56 | 41PiSgr | 155 | 47344 |
| 21-MAR-2011 03:45:58 | 2EpsCrv | 171 | 47346 |

### *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_1PNPDE20110321_000455_000000433100_00347_47344_9376.N1 | 21-MAR-2011 00:04:55 | Dark | 42.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 85 | 47344 | No |
| 2 | GOM_TRA_1PNPDE20110321_000826_000000403100_00347_47344_9377.N1 | 21-MAR-2011 00:08:26 | Dark | 39.500 | 134 | Bet TrA | 2.8100 | 6600.0 | 79 | 47344 | No |
| 3 | GOM_TRA_1PNPDE20110321_001109_000000473100_00347_47344_9378.N1 | 21-MAR-2011 00:11:09 | Dark | 47.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 94 | 47344 | No |
| 4 | GOM_TRA_1PNPDE20110321_001323_000000483100_00347_47344_9379.N1 | 21-MAR-2011 00:13:23 | Dark | 47.500 | 78 | Alp Lup | 2.3040 | 28000. | 95 | 47344 | No |
| 5 | GOM_TRA_1PNPDE20110321_001454_000000503100_00347_47344_9380.N1 | 21-MAR-2011 00:14:54 | Straylight | 49.500 | 81 | Eta Cen | 2.3560 | 28000. | 99 | 47344 | No |
| 6 | GOM_TRA_1PNPDE20110321_001709_000000453100_00347_47344_9381.N1 | 21-MAR-2011 00:17:09 | Straylight | 44.500 | 64 | Gam Cen | 2.2000 | 10600. | 89 | 47344 | No |
| 7 | GOM_TRA_1PNPDE20110321_001929_000000493100_00347_47344_9382.N1 | 21-MAR-2011 00:19:29 | Straylight | 49.000 | 123 | Iot Cen | 2.7500 | 10200. | 98 | 47344 | No |
| 8 | GOM_TRA_1PNPDE20110321_002414_000000293100_00347_47344_9383.N1 | 21-MAR-2011 00:24:14 | Straylight | 29.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 58 | 47344 | No |
| 9 | GOM_TRA_1PNPDE20110321_002528_000000463100_00347_47344_9384.N1 | 21-MAR-2011 00:25:28 | Straylight | 46.000 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 92 | 47344 | No |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | GOM_TRA_1PNPDE20110321_002704_000000513100_00347_47344_9385.N1 | 21-MAR-2011 00:27:04 | Twi_and_stray | 50.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 101 | 47344 | No |
| 11 | GOM_TRA_1PNPDE20110321_003735_000000623100_00347_47344_9386.N1 | 21-MAR-2011 00:37:35 | Bright | 62.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 124 | 47344 | No |
| 12 | GOM_TRA_1PNPDE20110321_004552_000000413100_00347_47344_9387.N1 | 21-MAR-2011 00:45:52 | Bright | 40.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 81 | 47344 | No |
| 13 | GOM_TRA_1PNPDE20110321_004907_000000363100_00347_47344_9388.N1 | 21-MAR-2011 00:49:07 | Bright | 36.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 72 | 47344 | No |
| 14 | GOM_TRA_1PNPDE20110321_005037_000000393100_00347_47344_9389.N1 | 21-MAR-2011 00:50:37 | Bright | 38.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 77 | 47344 | No |
| 15 | GOM_TRA_1PNPDE20110321_005239_000000453100_00347_47344_9390.N1 | 21-MAR-2011 00:52:39 | Bright | 45.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 90 | 47344 | No |
| 16 | GOM_TRA_1PNPDE20110321_005729_000000393100_00347_47344_9391.N1 | 21-MAR-2011 00:57:29 | Bright | 39.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 78 | 47344 | No |
| 17 | GOM_TRA_1PNPDE20110321_010111_000000483100_00347_47344_9392.N1 | 21-MAR-2011 01:01:11 | Bright | 47.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 95 | 47344 | No |
| 18 | GOM_TRA_1PNPDE20110321_011110_000000363100_00347_47344_9393.N1 | 21-MAR-2011 01:11:10 | Bright | 36.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 72 | 47344 | No |
| 19 | GOM_TRA_1PNPDE20110321_011245_000000383100_00347_47344_9394.N1 | 21-MAR-2011 01:12:45 | Bright | 38.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 76 | 47344 | No |
| 20 | GOM_TRA_1PNPDE20110321_011433_000000393100_00347_47344_9395.N1 | 21-MAR-2011 01:14:33 | Bright | 39.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 78 | 47344 | No |
| 21 | GOM_TRA_1PNPDE20110321_012316_000000573100_00347_47344_9396.N1 | 21-MAR-2011 01:23:16 | Twi_and_stray | 57.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 114 | 47344 | No |
| 22 | GOM_TRA_1PNPDE20110321_013601_000000483100_00347_47344_9397.N1 | 21-MAR-2011 01:36:01 | Dark | 47.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 95 | 47344 | No |
| 23 | GOM_TRA_1PNPDE20110321_013741_000000553100_00347_47344_9398.N1 | 21-MAR-2011 01:37:41 | Dark | 55.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 110 | 47344 | No |
| 24 | GOM_TRA_1PNPDE20110321_013934_000000503100_00347_47344_9399.N1 | 21-MAR-2011 01:39:34 | Dark | 49.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 99 | 47344 | No |
| 25 | GOM_TRA_1PNPDE20110321_014510_000000453100_00348_47345_9400.N1 | 21-MAR-2011 01:45:10 | Dark | 45.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 90 | 47345 | No |
| 26 | GOM_TRA_1PNPDE20110321_014841_000000403100_00348_47345_9401.N1 | 21-MAR-2011 01:48:41 | Dark | 40.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 80 | 47345 | No |
| 27 | GOM_TRA_1PNPDE20110321_015124_000000443100_00348_47345_9402.N1 | 21-MAR-2011 01:51:24 | Dark | 44.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 88 | 47345 | No |
| 28 | GOM_TRA_1PNPDE20110321_015338_000000473100_00348_47345_9403.N1 | 21-MAR-2011 01:53:38 | Dark | 46.500 | 78 | Alp Lup | 2.3040 | 28000. | 93 | 47345 | No |
| 29 | GOM_TRA_1PNPDE20110321_015509_000000503100_00348_47345_9404.N1 | 21-MAR-2011 01:55:09 | Straylight | 50.000 | 81 | Eta Cen | 2.3560 | 28000. | 100 | 47345 | No |
| 30 | GOM_TRA_1PNPDE20110321_015723_000000463100_00348_47345_9405.N1 | 21-MAR-2011 01:57:23 | Straylight | 45.500 | 64 | Gam Cen | 2.2000 | 10600. | 91 | 47345 | No |
| 31 | GOM_TRA_1PNPDE20110321_015943_000000503100_00348_47345_9406.N1 | 21-MAR-2011 01:59:43 | Straylight | 49.500 | 123 | Iot Cen | 2.7500 | 10200. | 99 | 47345 | No |
| 32 | GOM_TRA_1PNPDE20110321_020428_000000293100_00348_47345_9407.N1 | 21-MAR-2011 02:04:28 | Straylight | 29.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 58 | 47345 | No |
| 33 | GOM_TRA_1PNPDE20110321_020543_000000483100_00348_47345_9408.N1 | 21-MAR-2011 02:05:43 | Straylight | 48.000 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 96 | 47345 | No |
| 34 | GOM_TRA_1PNPDE20110321_020718_000000503100_00348_47345_9409.N1 | 21-MAR-2011 02:07:18 | Twi_and_stray | 49.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 99 | 47345 | No |
| 35 | GOM_TRA_1PNPDE20110321_021749_000000443100_00348_47345_9410.N1 | 21-MAR-2011 02:17:49 | Bright | 44.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 88 | 47345 | No |
| 36 | GOM_TRA_1PNPDE20110321_022606_000000383100_00348_47345_9411.N1 | 21-MAR-2011 02:26:06 | Bright | 38.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 76 | 47345 | No |
| 37 | GOM_TRA_1PNPDE20110321_022921_000000363100_00348_47345_9412.N1 | 21-MAR-2011 02:29:21 | Bright | 35.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 71 | 47345 | No |
| 38 | GOM_TRA_1PNPDE20110321_023051_000000363100_00348_47345_9413.N1 | 21-MAR-2011 02:30:51 | Bright | 35.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 71 | 47345 | No |
| 39 | GOM_TRA_1PNPDE20110321_023253_000000473100_00348_47345_9414.N1 | 21-MAR-2011 02:32:53 | Bright | 47.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 94 | 47345 | No |
| 40 | GOM_TRA_1PNPDE20110321_023743_000000383100_00348_47345_9415.N1 | 21-MAR-2011 02:37:43 | Bright | 38.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 76 | 47345 | No |
| 41 | GOM_TRA_1PNPDE20110321_024124_000000493100_00348_47345_9422.N1 | 21-MAR-2011 02:41:24 | Bright | 49.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 98 | 47345 | Yes |
| 42 | GOM_TRA_1PNPDE20110321_025124_000000383100_00348_47345_9423.N1 | 21-MAR-2011 02:51:24 | Bright | 37.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 75 | 47345 | No |
| 43 | GOM_TRA_1PNPDE20110321_025259_000000453100_00348_47345_9424.N1 | 21-MAR-2011 02:52:59 | Bright | 44.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 89 | 47345 | No |
| 44 | GOM_TRA_1PNPDE20110321_025447_000000383100_00348_47345_9425.N1 | 21-MAR-2011 02:54:47 | Bright | 37.500 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 75 | 47345 | No |
| 45 | GOM_TRA_1PNPDE20110321_030330_000000643100_00348_47345_9426.N1 | 21-MAR-2011 03:03:30 | Twi_and_stray | 64.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 128 | 47345 | No |
| 46 | GOM_TRA_1PNPDE20110321_031410_000000493100_00348_47345_9427.N1 | 21-MAR-2011 03:14:10 | Dark | 49.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 98 | 47345 | No |
| 47 | GOM_TRA_1PNPDE20110321_031616_000000483100_00348_47345_9428.N1 | 21-MAR-2011 03:16:16 | Dark | 47.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 95 | 47345 | No |
| 48 | GOM_TRA_1PNPDE20110321_031756_000000533100_00348_47345_9429.N1 | 21-MAR-2011 03:17:56 | Dark | 53.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 106 | 47345 | No |
| 49 | GOM_TRA_1PNPDE20110321_031949_000000593100_00348_47345_9430.N1 | 21-MAR-2011 03:19:49 | Dark | 58.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 117 | 47345 | No |
| 50 | GOM_TRA_1PNPDE20110321_032524_000000413100_00349_47346_9431.N1 | 21-MAR-2011 03:25:24 | Dark | 41.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 82 | 47346 | No |
| 51 | GOM_TRA_1PNPDE20110321_032855_000000403100_00349_47346_9432.N1 | 21-MAR-2011 03:28:55 | Dark | 39.500 | 134 | Bet TrA | 2.8100 | 6600.0 | 79 | 47346 | No |
| 52 | GOM_TRA_1PNPDE20110321_033138_000000503100_00349_47346_9433.N1 | 21-MAR-2011 03:31:38 | Dark | 50.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 100 | 47346 | No |
| 53 | GOM_TRA_1PNPDE20110321_033353_000000483100_00349_47346_9434.N1 | 21-MAR-2011 03:33:53 | Dark | 48.000 | 78 | Alp Lup | 2.3040 | 28000. | 96 | 47346 | No |
| 54 | GOM_TRA_1PNPDE20110321_033524_000000543100_00349_47346_9435.N1 | 21-MAR-2011 03:35:24 | Straylight | 54.000 | 81 | Eta Cen | 2.3560 | 28000. | 108 | 47346 | No |
| 55 | GOM_TRA_1PNPDE20110321_033738_000000443100_00349_47346_9436.N1 | 21-MAR-2011 03:37:38 | Straylight | 44.000 | 64 | Gam Cen | 2.2000 | 10600. | 88 | 47346 | No |
| 56 | GOM_TRA_1PNPDE20110321_033958_000000503100_00349_47346_9437.N1 | 21-MAR-2011 03:39:58 | Straylight | 49.500 | 123 | Iot Cen | 2.7500 | 10200. | 99 | 47346 | No |
| 57 | GOM_TRA_1PNPDE20110321_034442_000000343100_00349_47346_9438.N1 | 21-MAR-2011 03:44:42 | Straylight | 34.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 68 | 47346 | No |
| 58 | GOM_TRA_1PNPDE20110321_034732_000000493100_00349_47346_9439.N1 | 21-MAR-2011 03:47:32 | Twi_and_stray | 49.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 98 | 47346 | No |
| 59 | GOM_TRA_1PNPDE20110321_035802_000000433100_00349_47346_9440.N1 | 21-MAR-2011 03:58:02 | Bright | 42.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 85 | 47346 | No |
| 60 | GOM_TRA_1PNPDE20110321_040620_000000393100_00349_47346_9441.N1 | 21-MAR-2011 04:06:20 | Bright | 38.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 77 | 47346 | No |
| 61 | GOM_TRA_1PNPDE20110321_040935_000000383100_00349_47346_9442.N1 | 21-MAR-2011 04:09:35 | Bright | 37.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 75 | 47346 | No |
| 62 | GOM_TRA_1PNPDE20110321_041105_000000393100_00349_47346_9443.N1 | 21-MAR-2011 04:11:05 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 47346 | No |
| 63 | GOM_TRA_1PNPDE20110321_041306_000000483100_00349_47346_9444.N1 | 21-MAR-2011 04:13:06 | Bright | 48.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 96 | 47346 | No |
| 64 | GOM_TRA_1PNPDE20110321_041756_000000423100_00349_47346_9445.N1 | 21-MAR-2011 04:17:56 | Bright | 42.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 84 | 47346 | No |
| 65 | GOM_TRA_1PNPDE20110321_042138_000000483100_00349_47346_9446.N1 | 21-MAR-2011 04:21:38 | Bright | 48.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 96 | 47346 | No |
| 66 | GOM_TRA_1PNPDE20110321_043138_000000373100_00349_47346_9454.N1 | 21-MAR-2011 04:31:38 | Bright | 36.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 73 | 47346 | No |
| 67 | GOM_TRA_1PNPDE20110321_043313_000000383100_00349_47346_9455.N1 | 21-MAR-2011 04:33:13 | Bright | 38.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 76 | 47346 | No |
| 68 | GOM_TRA_1PNPDE20110321_043501_000000383100_00349_47346_9456.N1 | 21-MAR-2011 04:35:01 | Bright | 38.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 76 | 47346 | No |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 69 | GOM_TRA_1PNPDE20110321_044345_000000543100_00349_47346_9457.N1 | 21-MAR-2011 04:43:45 | Twi_and_stray | 53.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 107 | 47346 | No |
| 70 | GOM_TRA_1PNPDE20110321_045425_000000493100_00349_47346_9458.N1 | 21-MAR-2011 04:54:25 | Dark | 49.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 98 | 47346 | No |
| 71 | GOM_TRA_1PNPDE20110321_045631_000000493100_00349_47346_9459.N1 | 21-MAR-2011 04:56:31 | Dark | 48.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 97 | 47346 | No |
| 72 | GOM_TRA_1PNPDE20110321_045811_000000543100_00349_47346_9460.N1 | 21-MAR-2011 04:58:11 | Dark | 54.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 108 | 47346 | No |
| 73 | GOM_TRA_1PNPDE20110321_050004_000000513100_00349_47346_9461.N1 | 21-MAR-2011 05:00:04 | Dark | 50.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 101 | 47346 | No |
| 74 | GOM_TRA_1PNPDE20110321_050539_000000423100_00350_47347_9462.N1 | 21-MAR-2011 05:05:39 | Dark | 42.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 84 | 47347 | No |
| 75 | GOM_TRA_1PNPDE20110321_050910_000000413100_00350_47347_9463.N1 | 21-MAR-2011 05:09:10 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47347 | No |
| 76 | GOM_TRA_1PNPDE20110321_051153_000000553100_00350_47347_9464.N1 | 21-MAR-2011 05:11:53 | Dark | 54.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 109 | 47347 | No |
| 77 | GOM_TRA_1PNPDE20110321_051407_000000473100_00350_47347_9465.N1 | 21-MAR-2011 05:14:07 | Dark | 46.500 | 78 | Alp Lup | 2.3040 | 28000. | 93 | 47347 | No |
| 78 | GOM_TRA_1PNPDE20110321_051539_000000503100_00350_47347_9466.N1 | 21-MAR-2011 05:15:39 | Straylight | 49.500 | 81 | Eta Cen | 2.3560 | 28000. | 99 | 47347 | No |
| 79 | GOM_TRA_1PNPDE20110321_051752_000000403100_00350_47347_9467.N1 | 21-MAR-2011 05:17:52 | Straylight | 39.500 | 64 | Gam Cen | 2.2000 | 10600. | 79 | 47347 | No |
| 80 | GOM_TRA_1PNPDE20110321_052012_000000473100_00350_47347_9468.N1 | 21-MAR-2011 05:20:12 | Straylight | 46.500 | 123 | Iot Cen | 2.7500 | 10200. | 93 | 47347 | No |
| 81 | GOM_TRA_1PNPDE20110321_052457_000000343100_00350_47347_9469.N1 | 21-MAR-2011 05:24:57 | Straylight | 34.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 68 | 47347 | No |
| 82 | GOM_TRA_1PNPDE20110321_052611_000000483100_00350_47347_9470.N1 | 21-MAR-2011 05:26:11 | Straylight | 48.000 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 96 | 47347 | No |
| 83 | GOM_TRA_1PNPDE20110321_052746_000000503100_00350_47347_9471.N1 | 21-MAR-2011 05:27:46 | Twi_and_stray | 49.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 99 | 47347 | No |
| 84 | GOM_TRA_1PNPDE20110321_053816_000000443100_00350_47347_9472.N1 | 21-MAR-2011 05:38:16 | Bright | 44.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 88 | 47347 | No |
| 85 | GOM_TRA_1PNPDE20110321_054633_000000383100_00350_47347_9473.N1 | 21-MAR-2011 05:46:33 | Bright | 38.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 76 | 47347 | No |
| 86 | GOM_TRA_1PNPDE20110321_054948_000000383100_00350_47347_9474.N1 | 21-MAR-2011 05:49:48 | Bright | 37.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 75 | 47347 | No |
| 87 | GOM_TRA_1PNPDE20110321_055119_000000393100_00350_47347_9475.N1 | 21-MAR-2011 05:51:19 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 47347 | No |
| 88 | GOM_TRA_1PNPDE20110321_055319_000000473100_00350_47347_9476.N1 | 21-MAR-2011 05:53:19 | Bright | 46.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 93 | 47347 | No |
| 89 | GOM_TRA_1PNPDE20110321_055810_000000423100_00350_47347_9477.N1 | 21-MAR-2011 05:58:10 | Bright | 42.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 84 | 47347 | No |
| 90 | GOM_TRA_1PNPDE20110321_060151_000000493100_00350_47347_9478.N1 | 21-MAR-2011 06:01:51 | Bright | 48.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 97 | 47347 | No |
| 91 | GOM_TRA_1PNPDK20110321_061152_000000373100_00350_47347_3901.N1 | 21-MAR-2011 06:11:52 | Bright | 37.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 74 | 47347 | No |
| 92 | GOM_TRA_1PNPDK20110321_061327_000000403100_00350_47347_3902.N1 | 21-MAR-2011 06:13:27 | Bright | 40.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 80 | 47347 | No |
| 93 | GOM_TRA_1PNPDK20110321_061515_000000563100_00350_47347_3903.N1 | 21-MAR-2011 06:15:15 | Bright | 56.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 112 | 47347 | No |
| 94 | GOM_TRA_1PNPDK20110321_062400_000000553100_00350_47347_3904.N1 | 21-MAR-2011 06:24:00 | Twi_and_stray | 54.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 109 | 47347 | No |
| 95 | GOM_TRA_1PNPDK20110321_063440_000000523100_00350_47347_3905.N1 | 21-MAR-2011 06:34:40 | Dark | 51.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 103 | 47347 | No |
| 96 | GOM_TRA_1PNPDK20110321_063646_000000523100_00350_47347_3906.N1 | 21-MAR-2011 06:36:46 | Dark | 51.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 103 | 47347 | No |
| 97 | GOM_TRA_1PNPDK20110321_063826_000000603100_00350_47347_3907.N1 | 21-MAR-2011 06:38:26 | Dark | 60.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 120 | 47347 | No |
| 98 | GOM_TRA_1PNPDK20110321_064019_000000513100_00350_47347_3908.N1 | 21-MAR-2011 06:40:19 | Dark | 50.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 101 | 47347 | No |
| 99 | GOM_TRA_1PNPDK20110321_064554_000000433100_00351_47348_3909.N1 | 21-MAR-2011 06:45:54 | Dark | 42.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 85 | 47348 | No |
| 100 | GOM_TRA_1PNPDK20110321_064924_000000413100_00351_47348_3910.N1 | 21-MAR-2011 06:49:24 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47348 | No |
| 101 | GOM_TRA_1PNPDK20110321_065207_000000573100_00351_47348_3911.N1 | 21-MAR-2011 06:52:07 | Dark | 57.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 114 | 47348 | No |
| 102 | GOM_TRA_1PNPDK20110321_065422_000000463100_00351_47348_3912.N1 | 21-MAR-2011 06:54:22 | Dark | 45.500 | 78 | Alp Lup | 2.3040 | 28000. | 91 | 47348 | No |
| 103 | GOM_TRA_1PNPDK20110321_065554_000000523100_00351_47348_3913.N1 | 21-MAR-2011 06:55:54 | Straylight | 52.000 | 81 | Eta Cen | 2.3560 | 28000. | 104 | 47348 | No |
| 104 | GOM_TRA_1PNPDK20110321_065807_000000423100_00351_47348_3914.N1 | 21-MAR-2011 06:58:07 | Straylight | 42.000 | 64 | Gam Cen | 2.2000 | 10600. | 84 | 47348 | No |
| 105 | GOM_TRA_1PNPDK20110321_070027_000000473100_00351_47348_3915.N1 | 21-MAR-2011 07:00:27 | Straylight | 46.500 | 123 | Iot Cen | 2.7500 | 10200. | 93 | 47348 | No |
| 106 | GOM_TRA_1PNPDK20110321_070511_000000393100_00351_47348_3916.N1 | 21-MAR-2011 07:05:11 | Straylight | 39.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 78 | 47348 | No |
| 107 | GOM_TRA_1PNPDK20110321_070625_000000493100_00351_47348_3917.N1 | 21-MAR-2011 07:06:25 | Straylight | 48.500 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 97 | 47348 | No |
| 108 | GOM_TRA_1PNPDK20110321_070801_000000463100_00351_47348_3918.N1 | 21-MAR-2011 07:08:01 | Twi_and_stray | 45.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 91 | 47348 | No |
| 109 | GOM_TRA_1PNPDK20110321_071830_000000443100_00351_47348_3482.N1 | 21-MAR-2011 07:18:30 | Bright | 43.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 87 | 47348 | No |
| 110 | GOM_TRA_1PNPDK20110321_072647_000000383100_00351_47348_3483.N1 | 21-MAR-2011 07:26:47 | Bright | 37.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 75 | 47348 | No |
| 111 | GOM_TRA_1PNPDK20110321_073002_000000383100_00351_47348_3484.N1 | 21-MAR-2011 07:30:02 | Bright | 38.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 76 | 47348 | No |
| 112 | GOM_TRA_1PNPDK20110321_073133_000000393100_00351_47348_3485.N1 | 21-MAR-2011 07:31:33 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 47348 | No |
| 113 | GOM_TRA_1PNPDK20110321_073333_000000493100_00351_47348_3486.N1 | 21-MAR-2011 07:33:33 | Bright | 48.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 97 | 47348 | No |
| 114 | GOM_TRA_1PNPDK20110321_073824_000000393100_00351_47348_3487.N1 | 21-MAR-2011 07:38:24 | Bright | 39.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 78 | 47348 | No |
| 115 | GOM_TRA_1PNPDK20110321_074205_000000453100_00351_47348_3488.N1 | 21-MAR-2011 07:42:05 | Bright | 44.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 89 | 47348 | No |
| 116 | GOM_TRA_1PNPDK20110321_075207_000000383100_00351_47348_3489.N1 | 21-MAR-2011 07:52:07 | Bright | 38.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 76 | 47348 | No |
| 117 | GOM_TRA_1PNPDK20110321_075342_000000383100_00351_47348_3490.N1 | 21-MAR-2011 07:53:42 | Bright | 37.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 75 | 47348 | No |
| 118 | GOM_TRA_1PNPDK20110321_075529_000000373100_00351_47348_3491.N1 | 21-MAR-2011 07:55:29 | Bright | 36.500 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 73 | 47348 | No |
| 119 | GOM_TRA_1PNPDK20110321_080414_000000573100_00351_47348_3492.N1 | 21-MAR-2011 08:04:14 | Twi_and_stray | 56.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 113 | 47348 | No |
| 120 | GOM_TRA_1PNPDK20110321_081455_000000533100_00351_47348_3493.N1 | 21-MAR-2011 08:14:55 | Dark | 53.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 106 | 47348 | No |
| 121 | GOM_TRA_1PNPDK20110321_081701_000000513100_00351_47348_3494.N1 | 21-MAR-2011 08:17:01 | Dark | 51.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 102 | 47348 | No |
| 122 | GOM_TRA_1PNPDK20110321_081842_000000593100_00351_47348_3495.N1 | 21-MAR-2011 08:18:42 | Dark | 58.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 117 | 47348 | No |
| 123 | GOM_TRA_1PNPDK20110321_082034_000000513100_00351_47348_3496.N1 | 21-MAR-2011 08:20:34 | Dark | 51.000 | 38 | 20Eps Sgr | 1.8360 | 11000. | 102 | 47348 | No |
| 124 | GOM_TRA_1PNPDK20110321_082609_000000423100_00352_47349_3497.N1 | 21-MAR-2011 08:26:09 | Dark | 42.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 84 | 47349 | No |
| 125 | GOM_TRA_1PNPDK20110321_082939_000000403100_00352_47349_3498.N1 | 21-MAR-2011 08:29:39 | Dark | 39.500 | 134 | Bet TrA | 2.8100 | 6600.0 | 79 | 47349 | No |
| 126 | GOM_TRA_1PNPDK20110321_083222_000000453100_00352_47349_3499.N1 | 21-MAR-2011 08:32:22 | Dark | 44.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 89 | 47349 | No |
| 127 | GOM_TRA_1PNPDK20110321_083437_000000463100_00352_47349_3500.N1 | 21-MAR-2011 08:34:37 | Dark | 46.000 | 78 | Alp Lup | 2.3040 | 28000. | 92 | 47349 | No |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 128 | GOM_TRA_1PNPDK20110321_083608_000000513100_00352_47349_3501.N1 | 21-MAR-2011 08:36:08 | Straylight | 50.500 | 81 | Eta Cen | 2.3560 | 28000. | 101 | 47349 | No |
| 129 | GOM_TRA_1PNPDK20110321_083821_000000433100_00352_47349_3502.N1 | 21-MAR-2011 08:38:21 | Straylight | 42.500 | 64 | Gam Cen | 2.2000 | 10600. | 85 | 47349 | No |
| 130 | GOM_TRA_1PNPDK20110321_084041_000000473100_00352_47349_3503.N1 | 21-MAR-2011 08:40:41 | Straylight | 46.500 | 123 | Iot Cen | 2.7500 | 10200. | 93 | 47349 | No |
| 131 | GOM_TRA_1PNPDK20110321_084526_000000393100_00352_47349_3504.N1 | 21-MAR-2011 08:45:26 | Straylight | 39.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 78 | 47349 | No |
| 132 | GOM_TRA_1PNPDK20110321_084639_000000493100_00352_47349_3505.N1 | 21-MAR-2011 08:46:39 | Straylight | 48.500 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 97 | 47349 | No |
| 133 | GOM_TRA_1PNPDK20110321_084815_000000483100_00352_47349_3506.N1 | 21-MAR-2011 08:48:15 | Twi_and_stray | 47.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 95 | 47349 | No |
| 134 | GOM_TRA_1PNPDK20110321_085844_000000443100_00352_47349_3512.N1 | 21-MAR-2011 08:58:44 | Bright | 43.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 87 | 47349 | No |
| 135 | GOM_TRA_1PNPDK20110321_090701_000000393100_00352_47349_3513.N1 | 21-MAR-2011 09:07:01 | Bright | 39.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 78 | 47349 | No |
| 136 | GOM_TRA_1PNPDK20110321_091016_000000383100_00352_47349_3514.N1 | 21-MAR-2011 09:10:16 | Bright | 38.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 76 | 47349 | No |
| 137 | GOM_TRA_1PNPDK20110321_091147_000000403100_00352_47349_3515.N1 | 21-MAR-2011 09:11:47 | Bright | 39.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 79 | 47349 | No |
| 138 | GOM_TRA_1PNPDK20110321_091346_000000453100_00352_47349_3516.N1 | 21-MAR-2011 09:13:46 | Bright | 45.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 90 | 47349 | No |
| 139 | GOM_TRA_1PNPDK20110321_091838_000000423100_00352_47349_3517.N1 | 21-MAR-2011 09:18:38 | Bright | 42.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 84 | 47349 | No |
| 140 | GOM_TRA_1PNPDK20110321_092218_000000493100_00352_47349_3518.N1 | 21-MAR-2011 09:22:18 | Bright | 49.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 98 | 47349 | No |
| 141 | GOM_TRA_1PNPDK20110321_093220_000000413100_00352_47349_3519.N1 | 21-MAR-2011 09:32:20 | Bright | 40.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 81 | 47349 | No |
| 142 | GOM_TRA_1PNPDK20110321_093355_000000413100_00352_47349_3520.N1 | 21-MAR-2011 09:33:55 | Bright | 40.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 81 | 47349 | No |
| 143 | GOM_TRA_1PNPDK20110321_093543_000000383100_00352_47349_3521.N1 | 21-MAR-2011 09:35:43 | Bright | 38.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 76 | 47349 | No |
| 144 | GOM_TRA_1PNPDK20110321_094429_000000623100_00352_47349_3522.N1 | 21-MAR-2011 09:44:29 | Twi_and_stray | 61.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 123 | 47349 | No |
| 145 | GOM_TRA_1PNPDK20110321_095510_000000503100_00352_47349_3523.N1 | 21-MAR-2011 09:55:10 | Dark | 50.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 100 | 47349 | No |
| 146 | GOM_TRA_1PNPDK20110321_095716_000000523100_00352_47349_3524.N1 | 21-MAR-2011 09:57:16 | Dark | 52.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 104 | 47349 | No |
| 147 | GOM_TRA_1PNPDK20110321_095857_000000583100_00352_47349_3525.N1 | 21-MAR-2011 09:58:57 | Dark | 57.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 115 | 47349 | No |
| 148 | GOM_TRA_1PNPDK20110321_100049_000000503100_00352_47349_3526.N1 | 21-MAR-2011 10:00:49 | Dark | 49.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 99 | 47349 | No |
| 149 | GOM_TRA_1PNPDK20110321_100623_000000433100_00353_47350_3527.N1 | 21-MAR-2011 10:06:23 | Dark | 43.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 86 | 47350 | No |
| 150 | GOM_TRA_1PNPDK20110321_100953_000000413100_00353_47350_3528.N1 | 21-MAR-2011 10:09:53 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47350 | No |
| 151 | GOM_TRA_1PNPDK20110321_101236_000000463100_00353_47350_3529.N1 | 21-MAR-2011 10:12:36 | Dark | 46.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 92 | 47350 | No |
| 152 | GOM_TRA_1PNPDK20110321_101452_000000483100_00353_47350_3530.N1 | 21-MAR-2011 10:14:52 | Dark | 47.500 | 78 | Alp Lup | 2.3040 | 28000. | 95 | 47350 | No |
| 153 | GOM_TRA_1PNPDK20110321_101623_000000513100_00353_47350_3531.N1 | 21-MAR-2011 10:16:23 | Straylight | 50.500 | 81 | Eta Cen | 2.3560 | 28000. | 101 | 47350 | No |
| 154 | GOM_TRA_1PNPDK20110321_101835_000000433100_00353_47350_3532.N1 | 21-MAR-2011 10:18:35 | Straylight | 43.000 | 64 | Gam Cen | 2.2000 | 10600. | 86 | 47350 | No |
| 155 | GOM_TRA_1PNPDK20110321_102056_000000473100_00353_47350_3533.N1 | 21-MAR-2011 10:20:56 | Straylight | 47.000 | 123 | Iot Cen | 2.7500 | 10200. | 94 | 47350 | No |
| 156 | GOM_TRA_1PNPDK20110321_102540_000000443100_00353_47350_3534.N1 | 21-MAR-2011 10:25:40 | Straylight | 44.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 88 | 47350 | No |
| 157 | GOM_TRA_1PNPDK20110321_102654_000000503100_00353_47350_3535.N1 | 21-MAR-2011 10:26:54 | Straylight | 49.500 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 99 | 47350 | No |
| 158 | GOM_TRA_1PNPDK20110321_102829_000000483100_00353_47350_3536.N1 | 21-MAR-2011 10:28:29 | Twi_and_stray | 48.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 96 | 47350 | No |
| 159 | GOM_TRA_1PNPDK20110321_103857_000000433100_00353_47350_3551.N1 | 21-MAR-2011 10:38:57 | Bright | 43.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 86 | 47350 | No |
| 160 | GOM_TRA_1PNPDK20110321_104715_000000563100_00353_47350_3552.N1 | 21-MAR-2011 10:47:15 | Bright | 56.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 112 | 47350 | No |
| 161 | GOM_TRA_1PNPDK20110321_105030_000000383100_00353_47350_3553.N1 | 21-MAR-2011 10:50:30 | Bright | 37.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 75 | 47350 | No |
| 162 | GOM_TRA_1PNPDK20110321_105200_000000383100_00353_47350_3554.N1 | 21-MAR-2011 10:52:00 | Bright | 38.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 76 | 47350 | No |
| 163 | GOM_TRA_1PNPDK20110321_105359_000000493100_00353_47350_3555.N1 | 21-MAR-2011 10:53:59 | Bright | 48.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 97 | 47350 | No |
| 164 | GOM_TRA_1PNPDK20110321_105851_000000423100_00353_47350_3556.N1 | 21-MAR-2011 10:58:51 | Bright | 41.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 83 | 47350 | No |
| 165 | GOM_TRA_1PNPDK20110321_110231_000000483100_00353_47350_3557.N1 | 21-MAR-2011 11:02:31 | Bright | 47.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 95 | 47350 | No |
| 166 | GOM_TRA_1PNPDK20110321_111234_000000403100_00353_47350_3558.N1 | 21-MAR-2011 11:12:34 | Bright | 39.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 79 | 47350 | No |
| 167 | GOM_TRA_1PNPDK20110321_111409_000000413100_00353_47350_3559.N1 | 21-MAR-2011 11:14:09 | Bright | 40.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 81 | 47350 | No |
| 168 | GOM_TRA_1PNPDK20110321_111557_000000383100_00353_47350_3560.N1 | 21-MAR-2011 11:15:57 | Bright | 38.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 76 | 47350 | No |
| 169 | GOM_TRA_1PNPDK20110321_112443_000000553100_00353_47350_3561.N1 | 21-MAR-2011 11:24:43 | Twi_and_stray | 54.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 109 | 47350 | No |
| 170 | GOM_TRA_1PNPDK20110321_113525_000000483100_00353_47350_3562.N1 | 21-MAR-2011 11:35:25 | Dark | 47.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 95 | 47350 | No |
| 171 | GOM_TRA_1PNPDK20110321_113731_000000503100_00353_47350_3563.N1 | 21-MAR-2011 11:37:31 | Dark | 50.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 100 | 47350 | No |
| 172 | GOM_TRA_1PNPDK20110321_113912_000000573100_00353_47350_3564.N1 | 21-MAR-2011 11:39:12 | Dark | 57.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 114 | 47350 | No |
| 173 | GOM_TRA_1PNPDK20110321_114104_000000553100_00353_47350_3565.N1 | 21-MAR-2011 11:41:04 | Dark | 54.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 109 | 47350 | No |
| 174 | GOM_TRA_1PNPDK20110321_114638_000000483100_00354_47351_3566.N1 | 21-MAR-2011 11:46:38 | Dark | 48.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 96 | 47351 | No |
| 175 | GOM_TRA_1PNPDK20110321_115008_000000403100_00354_47351_3567.N1 | 21-MAR-2011 11:50:08 | Dark | 40.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 80 | 47351 | No |
| 176 | GOM_TRA_1PNPDK20110321_115251_000000553100_00354_47351_3568.N1 | 21-MAR-2011 11:52:51 | Dark | 55.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 110 | 47351 | No |
| 177 | GOM_TRA_1PNPDK20110321_115506_000000463100_00354_47351_3569.N1 | 21-MAR-2011 11:55:06 | Dark | 45.500 | 78 | Alp Lup | 2.3040 | 28000. | 91 | 47351 | No |
| 178 | GOM_TRA_1PNPDK20110321_115638_000000503100_00354_47351_3570.N1 | 21-MAR-2011 11:56:38 | Straylight | 50.000 | 81 | Eta Cen | 2.3560 | 28000. | 100 | 47351 | No |
| 179 | GOM_TRA_1PNPDK20110321_115850_000000443100_00354_47351_3571.N1 | 21-MAR-2011 11:58:50 | Straylight | 43.500 | 64 | Gam Cen | 2.2000 | 10600. | 87 | 47351 | No |
| 180 | GOM_TRA_1PNPDK20110321_120110_000000473100_00354_47351_3572.N1 | 21-MAR-2011 12:01:10 | Straylight | 46.500 | 123 | Iot Cen | 2.7500 | 10200. | 93 | 47351 | No |
| 181 | GOM_TRA_1PNPDK20110321_120554_000000443100_00354_47351_3573.N1 | 21-MAR-2011 12:05:54 | Straylight | 44.000 | 169 | 46Gam Hya | 2.9910 | 4700.0 | 88 | 47351 | No |
| 182 | GOM_TRA_1PNPDK20110321_120708_000000513100_00354_47351_3574.N1 | 21-MAR-2011 12:07:08 | Straylight | 50.500 | 171 | 2Eps Crv | 3.0010 | 4250.0 | 101 | 47351 | No |
| 183 | GOM_TRA_1PNPDK20110321_120843_000000443100_00354_47351_3575.N1 | 21-MAR-2011 12:08:43 | Twi_and_stray | 43.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 87 | 47351 | No |
| 184 | GOM_TRA_1PNPDK20110321_121911_000000443100_00354_47351_3572.N1 | 21-MAR-2011 12:19:11 | Bright | 43.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 87 | 47351 | No |
| 185 | GOM_TRA_1PNPDK20110321_122728_000000403100_00354_47351_3573.N1 | 21-MAR-2011 12:27:28 | Bright | 40.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 80 | 47351 | No |
| 186 | GOM_TRA_1PNPDK20110321_123044_000000393100_00354_47351_3574.N1 | 21-MAR-2011 12:30:44 | Bright | 39.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 78 | 47351 | No |

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|---|---|---|---|---|---|---|---|---|---|---|---|
| 187 | GOM_TRA_1PNPDK20110321_123214_000000373100_00354_47351_3575.N1 | 21-MAR-2011 12:32:14 | Bright | 36.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 73 | 47351 | No |
| 188 | GOM_TRA_1PNPDK20110321_123412_000000693100_00354_47351_3576.N1 | 21-MAR-2011 12:34:12 | Bright | 69.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 138 | 47351 | No |
| 189 | GOM_TRA_1PNPDK20110321_123905_000000403100_00354_47351_3577.N1 | 21-MAR-2011 12:39:05 | Bright | 40.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 80 | 47351 | No |
| 190 | GOM_TRA_1PNPDK20110321_124245_000000473100_00354_47351_3578.N1 | 21-MAR-2011 12:42:45 | Bright | 47.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 94 | 47351 | No |
| 191 | GOM_TRA_1PNPDK20110321_125248_000000393100_00354_47351_3579.N1 | 21-MAR-2011 12:52:48 | Bright | 39.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 78 | 47351 | No |
| 192 | GOM_TRA_1PNPDK20110321_125423_000000393100_00354_47351_3580.N1 | 21-MAR-2011 12:54:23 | Bright | 39.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 78 | 47351 | No |
| 193 | GOM_TRA_1PNPDK20110321_125611_000000563100_00354_47351_3581.N1 | 21-MAR-2011 12:56:11 | Bright | 56.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 112 | 47351 | No |
| 194 | GOM_TRA_1PNPDK20110321_130458_000000543100_00354_47351_3582.N1 | 21-MAR-2011 13:04:58 | Twi_and_stray | 53.500 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 107 | 47351 | No |
| 195 | GOM_TRA_1PNPDK20110321_131540_000000523100_00354_47351_3583.N1 | 21-MAR-2011 13:15:40 | Dark | 51.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 103 | 47351 | No |
| 196 | GOM_TRA_1PNPDK20110321_131746_000000563100_00354_47351_3584.N1 | 21-MAR-2011 13:17:46 | Dark | 55.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 111 | 47351 | No |
| 197 | GOM_TRA_1PNPDK20110321_131927_000000633100_00354_47351_3585.N1 | 21-MAR-2011 13:19:27 | Dark | 63.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 126 | 47351 | No |
| 198 | GOM_TRA_1PNPDK20110321_132119_000000503100_00354_47351_3586.N1 | 21-MAR-2011 13:21:19 | Dark | 49.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 99 | 47351 | No |
| 199 | GOM_TRA_1PNPDK20110321_132653_000000433100_00355_47352_3587.N1 | 21-MAR-2011 13:26:53 | Dark | 43.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 86 | 47352 | No |
| 200 | GOM_TRA_1PNPDK20110321_133023_000000393100_00355_47352_3588.N1 | 21-MAR-2011 13:30:23 | Dark | 39.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 78 | 47352 | No |
| 201 | GOM_TRA_1PNPDK20110321_133305_000000433100_00355_47352_3589.N1 | 21-MAR-2011 13:33:05 | Dark | 43.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 86 | 47352 | No |
| 202 | GOM_TRA_1PNPDK20110321_133521_000000473100_00355_47352_3590.N1 | 21-MAR-2011 13:35:21 | Dark | 46.500 | 78 | Alp Lup | 2.3040 | 28000. | 93 | 47352 | No |
| 203 | GOM_TRA_1PNPDK20110321_133653_000000493100_00355_47352_3591.N1 | 21-MAR-2011 13:36:53 | Straylight | 49.000 | 81 | Eta Cen | 2.3560 | 28000. | 98 | 47352 | No |
| 204 | GOM_TRA_1PNPDK20110321_133904_000000413100_00355_47352_3592.N1 | 21-MAR-2011 13:39:04 | Straylight | 40.500 | 64 | Gam Cen | 2.2000 | 10600. | 81 | 47352 | No |
| 205 | GOM_TRA_1PNPDK20110321_134125_000000513100_00355_47352_3593.N1 | 21-MAR-2011 13:41:25 | Straylight | 50.500 | 123 | Iot Cen | 2.7500 | 10200. | 101 | 47352 | No |
| 206 | GOM_TRA_1PNPDK20110321_134647_000000483100_00355_47352_3594.N1 | 21-MAR-2011 13:46:47 | Straylight | 48.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 96 | 47352 | No |
| 207 | GOM_TRA_1PNPDK20110321_134857_000000493100_00355_47352_3606.N1 | 21-MAR-2011 13:48:57 | Twi_and_stray | 48.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 97 | 47352 | No |
| 208 | GOM_TRA_1PNPDK20110321_135925_000000433100_00355_47352_3607.N1 | 21-MAR-2011 13:59:25 | Bright | 42.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 85 | 47352 | No |
| 209 | GOM_TRA_1PNPDK20110321_140742_000000403100_00355_47352_3608.N1 | 21-MAR-2011 14:07:42 | Bright | 39.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 79 | 47352 | No |
| 210 | GOM_TRA_1PNPDK20110321_141057_000000373100_00355_47352_3609.N1 | 21-MAR-2011 14:10:57 | Bright | 37.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 74 | 47352 | No |
| 211 | GOM_TRA_1PNPDK20110321_141228_000000383100_00355_47352_3610.N1 | 21-MAR-2011 14:12:28 | Bright | 37.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 75 | 47352 | No |
| 212 | GOM_TRA_1PNPDK20110321_141426_000000453100_00355_47352_3611.N1 | 21-MAR-2011 14:14:26 | Bright | 45.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 90 | 47352 | No |
| 213 | GOM_TRA_1PNPDK20110321_141918_000000373100_00355_47352_3612.N1 | 21-MAR-2011 14:19:18 | Bright | 36.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 73 | 47352 | No |
| 214 | GOM_TRA_1PNPDK20110321_142258_000000493100_00355_47352_3613.N1 | 21-MAR-2011 14:22:58 | Bright | 48.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 97 | 47352 | No |
| 215 | GOM_TRA_1PNPDK20110321_143303_000000373100_00355_47352_3614.N1 | 21-MAR-2011 14:33:03 | Bright | 37.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 74 | 47352 | No |
| 216 | GOM_TRA_1PNPDK20110321_143437_000000583100_00355_47352_3615.N1 | 21-MAR-2011 14:34:37 | Bright | 57.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 115 | 47352 | No |
| 217 | GOM_TRA_1PNPDK20110321_143626_000000373100_00355_47352_3616.N1 | 21-MAR-2011 14:36:26 | Bright | 37.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 74 | 47352 | No |
| 218 | GOM_TRA_1PNPDK20110321_144512_000000603100_00355_47352_3617.N1 | 21-MAR-2011 14:45:12 | Twi_and_stray | 60.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 120 | 47352 | No |
| 219 | GOM_TRA_1PNPDK20110321_145555_000000553100_00355_47352_3618.N1 | 21-MAR-2011 14:55:55 | Dark | 55.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 110 | 47352 | No |
| 220 | GOM_TRA_1PNPDK20110321_145801_000000483100_00355_47352_3619.N1 | 21-MAR-2011 14:58:01 | Dark | 48.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 96 | 47352 | No |
| 221 | GOM_TRA_1PNPDK20110321_145943_000000563100_00355_47352_3620.N1 | 21-MAR-2011 14:59:43 | Dark | 55.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 111 | 47352 | No |
| 222 | GOM_TRA_1PNPDK20110321_150134_000000503100_00355_47352_3621.N1 | 21-MAR-2011 15:01:34 | Dark | 49.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 99 | 47352 | No |
| 223 | GOM_TRA_1PNPDK20110321_150707_000000453100_00356_47353_3622.N1 | 21-MAR-2011 15:07:07 | Dark | 44.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 89 | 47353 | No |
| 224 | GOM_TRA_1PNPDK20110321_151037_000000413100_00356_47353_3623.N1 | 21-MAR-2011 15:10:37 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47353 | No |
| 225 | GOM_TRA_1PNPDK20110321_151320_000000473100_00356_47353_3624.N1 | 21-MAR-2011 15:13:20 | Dark | 47.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 94 | 47353 | No |
| 226 | GOM_TRA_1PNPDK20110321_151536_000000463100_00356_47353_3625.N1 | 21-MAR-2011 15:15:36 | Dark | 46.000 | 78 | Alp Lup | 2.3040 | 28000. | 92 | 47353 | No |
| 227 | GOM_TRA_1PNPDK20110321_151707_000000493100_00356_47353_3626.N1 | 21-MAR-2011 15:17:07 | Straylight | 48.500 | 81 | Eta Cen | 2.3560 | 28000. | 97 | 47353 | No |
| 228 | GOM_TRA_1PNPDK20110321_151918_000000413100_00356_47353_3627.N1 | 21-MAR-2011 15:19:18 | Straylight | 40.500 | 64 | Gam Cen | 2.2000 | 10600. | 81 | 47353 | No |
| 229 | GOM_TRA_1PNPDK20110321_152139_000000493100_00356_47353_3628.N1 | 21-MAR-2011 15:21:39 | Straylight | 49.000 | 123 | Iot Cen | 2.7500 | 10200. | 98 | 47353 | No |
| 230 | GOM_TRA_1PNPDK20110321_152702_000000533100_00356_47353_3633.N1 | 21-MAR-2011 15:27:02 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 47353 | No |
| 231 | GOM_TRA_1PNPDK20110321_152911_000000463100_00356_47353_3634.N1 | 21-MAR-2011 15:29:11 | Twi_and_stray | 46.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 92 | 47353 | No |
| 232 | GOM_TRA_1PNPDK20110321_153938_000000433100_00356_47353_3635.N1 | 21-MAR-2011 15:39:38 | Bright | 43.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 86 | 47353 | No |
| 233 | GOM_TRA_1PNPDK20110321_154756_000000393100_00356_47353_3636.N1 | 21-MAR-2011 15:47:56 | Bright | 38.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 77 | 47353 | No |
| 234 | GOM_TRA_1PNPDK20110321_155111_000000373100_00356_47353_3637.N1 | 21-MAR-2011 15:51:11 | Bright | 36.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 73 | 47353 | No |
| 235 | GOM_TRA_1PNPDK20110321_155242_000000393100_00356_47353_3638.N1 | 21-MAR-2011 15:52:42 | Bright | 38.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 77 | 47353 | No |
| 236 | GOM_TRA_1PNPDK20110321_155439_000000473100_00356_47353_3639.N1 | 21-MAR-2011 15:54:39 | Bright | 46.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 93 | 47353 | No |
| 237 | GOM_TRA_1PNPDK20110321_155932_000000423100_00356_47353_3640.N1 | 21-MAR-2011 15:59:32 | Bright | 41.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 83 | 47353 | No |
| 238 | GOM_TRA_1PNPDK20110321_160312_000000483100_00356_47353_3641.N1 | 21-MAR-2011 16:03:12 | Bright | 48.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 96 | 47353 | No |
| 239 | GOM_TRA_1PNPDK20110321_161317_000000363100_00356_47353_3642.N1 | 21-MAR-2011 16:13:17 | Bright | 36.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 72 | 47353 | No |
| 240 | GOM_TRA_1PNPDK20110321_161451_000000383100_00356_47353_3643.N1 | 21-MAR-2011 16:14:51 | Bright | 38.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 76 | 47353 | No |
| 241 | GOM_TRA_1PNPDK20110321_161640_000000563100_00356_47353_3644.N1 | 21-MAR-2011 16:16:40 | Bright | 56.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 112 | 47353 | No |
| 242 | GOM_TRA_1PNPDK20110321_162527_000000543100_00356_47353_3645.N1 | 21-MAR-2011 16:25:27 | Twi_and_stray | 54.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 108 | 47353 | No |
| 243 | GOM_TRA_1PNPDK20110321_163610_000000503100_00356_47353_3646.N1 | 21-MAR-2011 16:36:10 | Dark | 50.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 100 | 47353 | No |
| 244 | GOM_TRA_1PNPDK20110321_163816_000000503100_00356_47353_3647.N1 | 21-MAR-2011 16:38:16 | Dark | 50.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 100 | 47353 | No |
| 245 | GOM_TRA_1PNPDK20110321_163958_000000553100_00356_47353_3648.N1 | 21-MAR-2011 16:39:58 | Dark | 54.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 109 | 47353 | No |

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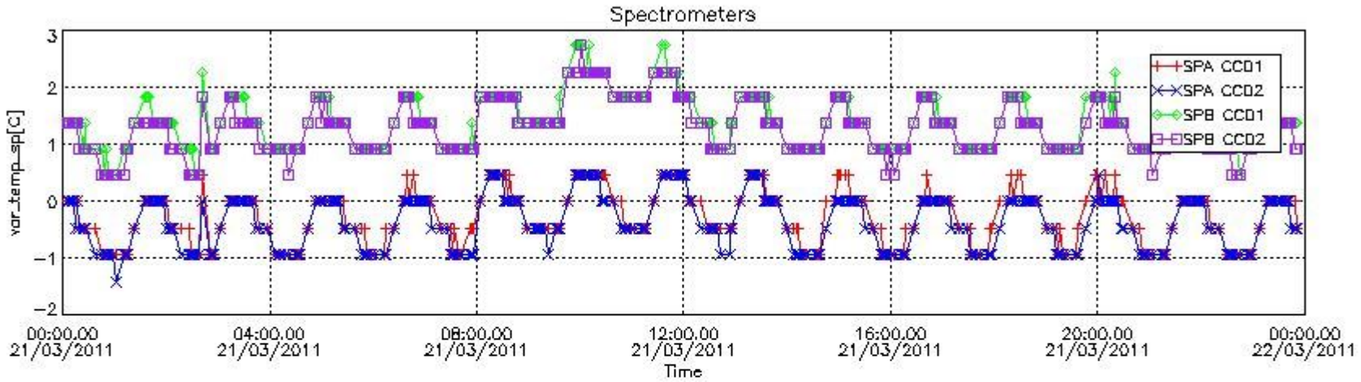
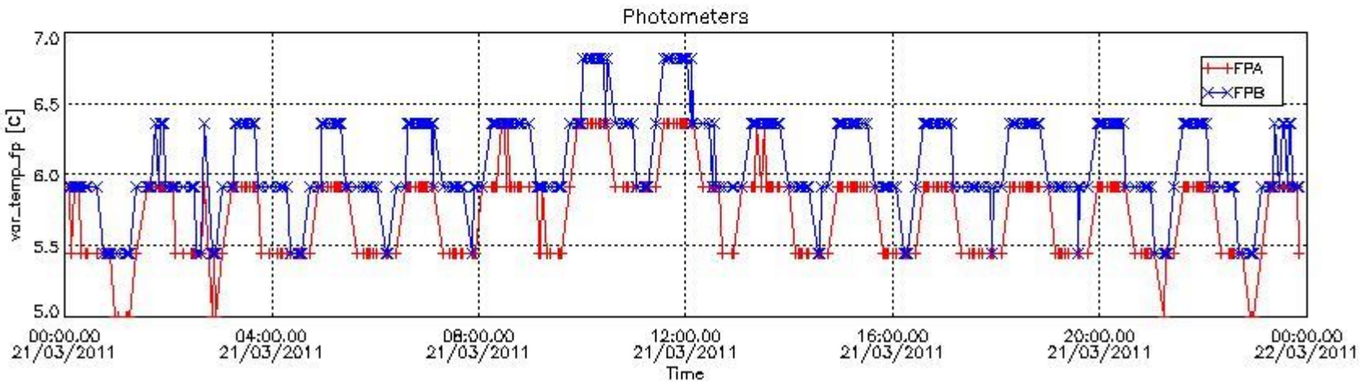
|---|---|---|---|---|---|---|---|---|---|---|---|
| 246 | GOM_TRA_1PNPDK20110321_164149_000000513100_00356_47353_3649.N1 | 21-MAR-2011 16:41:49 | Dark | 51.000 | 38 | 20Eps Sgr | 1.8360 | 11000. | 102 | 47353 | No |
| 247 | GOM_TRA_1PNPDK20110321_164722_000000433100_00357_47354_3650.N1 | 21-MAR-2011 16:47:22 | Dark | 42.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 85 | 47354 | No |
| 248 | GOM_TRA_1PNPDK20110321_165052_000000393100_00357_47354_3651.N1 | 21-MAR-2011 16:50:52 | Dark | 38.500 | 134 | Bet TrA | 2.8100 | 6600.0 | 77 | 47354 | No |
| 249 | GOM_TRA_1PNPDK20110321_165335_000000553100_00357_47354_3652.N1 | 21-MAR-2011 16:53:35 | Dark | 55.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 110 | 47354 | No |
| 250 | GOM_TRA_1PNPDK20110321_165551_000000463100_00357_47354_3653.N1 | 21-MAR-2011 16:55:51 | Dark | 45.500 | 78 | Alp Lup | 2.3040 | 28000. | 91 | 47354 | No |
| 251 | GOM_TRA_1PNPDK20110321_165722_000000523100_00357_47354_3654.N1 | 21-MAR-2011 16:57:22 | Straylight | 52.000 | 81 | Eta Cen | 2.3560 | 28000. | 104 | 47354 | No |
| 252 | GOM_TRA_1PNPDK20110321_165933_000000453100_00357_47354_3655.N1 | 21-MAR-2011 16:59:33 | Straylight | 45.000 | 64 | Gam Cen | 2.2000 | 10600. | 90 | 47354 | No |
| 253 | GOM_TRA_1PNPDK20110321_170154_000000483100_00357_47354_3656.N1 | 21-MAR-2011 17:01:54 | Straylight | 48.000 | 123 | Iot Cen | 2.7500 | 10200. | 96 | 47354 | No |
| 254 | GOM_TRA_1PNPDK20110321_170716_000000503100_00357_47354_3674.N1 | 21-MAR-2011 17:07:16 | Straylight | 50.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 100 | 47354 | No |
| 255 | GOM_TRA_1PNPDK20110321_170925_000000493100_00357_47354_3675.N1 | 21-MAR-2011 17:09:25 | Twi_and_stray | 49.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 98 | 47354 | No |
| 256 | GOM_TRA_1PNPDK20110321_171952_000000443100_00357_47354_3676.N1 | 21-MAR-2011 17:19:52 | Bright | 43.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 87 | 47354 | No |
| 257 | GOM_TRA_1PNPDK20110321_172810_000000383100_00357_47354_3677.N1 | 21-MAR-2011 17:28:10 | Bright | 37.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 75 | 47354 | No |
| 258 | GOM_TRA_1PNPDK20110321_173125_000000373100_00357_47354_3678.N1 | 21-MAR-2011 17:31:25 | Bright | 37.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 74 | 47354 | No |
| 259 | GOM_TRA_1PNPDK20110321_173256_000000393100_00357_47354_3679.N1 | 21-MAR-2011 17:32:56 | Bright | 39.000 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 78 | 47354 | No |
| 260 | GOM_TRA_1PNPDK20110321_173452_000000643100_00357_47354_3680.N1 | 21-MAR-2011 17:34:52 | Bright | 64.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 128 | 47354 | No |
| 261 | GOM_TRA_1PNPDK20110321_173946_000000463100_00357_47354_3681.N1 | 21-MAR-2011 17:39:46 | Bright | 46.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 92 | 47354 | No |
| 262 | GOM_TRA_1PNPDK20110321_174325_000000513100_00357_47354_3682.N1 | 21-MAR-2011 17:43:25 | Bright | 50.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 101 | 47354 | No |
| 263 | GOM_TRA_1PNPDK20110321_175331_000000383100_00357_47354_3683.N1 | 21-MAR-2011 17:53:31 | Bright | 38.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 76 | 47354 | No |
| 264 | GOM_TRA_1PNPDK20110321_175506_000000413100_00357_47354_3684.N1 | 21-MAR-2011 17:55:06 | Bright | 41.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 82 | 47354 | No |
| 265 | GOM_TRA_1PNPDK20110321_175654_000000563100_00357_47354_3685.N1 | 21-MAR-2011 17:56:54 | Bright | 56.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 112 | 47354 | No |
| 266 | GOM_TRA_1PNPDK20110321_180541_000000553100_00357_47354_3686.N1 | 21-MAR-2011 18:05:41 | Twi_and_stray | 55.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 110 | 47354 | No |
| 267 | GOM_TRA_1PNPDK20110321_181625_000000543100_00357_47354_3687.N1 | 21-MAR-2011 18:16:25 | Dark | 54.000 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 108 | 47354 | No |
| 268 | GOM_TRA_1PNPDK20110321_181831_000000483100_00357_47354_3688.N1 | 21-MAR-2011 18:18:31 | Dark | 47.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 95 | 47354 | No |
| 269 | GOM_TRA_1PNPDK20110321_182013_000000543100_00357_47354_3689.N1 | 21-MAR-2011 18:20:13 | Dark | 53.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 107 | 47354 | No |
| 270 | GOM_TRA_1PNPDK20110321_182204_000000493100_00357_47354_3690.N1 | 21-MAR-2011 18:22:04 | Dark | 48.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 97 | 47354 | No |
| 271 | GOM_TRA_1PNPDK20110321_182737_000000423100_00358_47355_3691.N1 | 21-MAR-2011 18:27:37 | Dark | 42.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 84 | 47355 | No |
| 272 | GOM_TRA_1PNPDK20110321_183106_000000413100_00358_47355_3692.N1 | 21-MAR-2011 18:31:06 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47355 | No |
| 273 | GOM_TRA_1PNPDK20110321_183349_000000573100_00358_47355_3693.N1 | 21-MAR-2011 18:33:49 | Dark | 57.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 114 | 47355 | No |
| 274 | GOM_TRA_1PNPDK20110321_183606_000000473100_00358_47355_3694.N1 | 21-MAR-2011 18:36:06 | Dark | 46.500 | 78 | Alp Lup | 2.3040 | 28000. | 93 | 47355 | No |
| 275 | GOM_TRA_1PNPDK20110321_183737_000000503100_00358_47355_3695.N1 | 21-MAR-2011 18:37:37 | Straylight | 50.000 | 81 | Eta Cen | 2.3560 | 28000. | 100 | 47355 | No |
| 276 | GOM_TRA_1PNPDK20110321_183947_000000443100_00358_47355_3696.N1 | 21-MAR-2011 18:39:47 | Straylight | 44.000 | 64 | Gam Cen | 2.2000 | 10600. | 88 | 47355 | No |
| 277 | GOM_TRA_1PNPDK20110321_184208_000000503100_00358_47355_3846.N1 | 21-MAR-2011 18:42:08 | Straylight | 50.000 | 123 | Iot Cen | 2.7500 | 10200. | 100 | 47355 | No |
| 278 | GOM_TRA_1PNPDK20110321_184730_000000533100_00358_47355_3847.N1 | 21-MAR-2011 18:47:30 | Straylight | 53.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 106 | 47355 | No |
| 279 | GOM_TRA_1PNPDK20110321_184939_000000493100_00358_47355_3848.N1 | 21-MAR-2011 18:49:39 | Twi_and_stray | 48.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 97 | 47355 | No |
| 280 | GOM_TRA_1PNPDK20110321_190006_000000433100_00358_47355_3849.N1 | 21-MAR-2011 19:00:06 | Bright | 43.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 86 | 47355 | No |
| 281 | GOM_TRA_1PNPDK20110321_190824_000000393100_00358_47355_3850.N1 | 21-MAR-2011 19:08:24 | Bright | 38.500 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 77 | 47355 | No |
| 282 | GOM_TRA_1PNPDK20110321_191139_000000553100_00358_47355_3851.N1 | 21-MAR-2011 19:11:39 | Bright | 55.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 110 | 47355 | No |
| 283 | GOM_TRA_1PNPDK20110321_191310_000000403100_00358_47355_3852.N1 | 21-MAR-2011 19:13:10 | Bright | 39.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 79 | 47355 | No |
| 284 | GOM_TRA_1PNPDK20110321_191506_000000573100_00358_47355_3853.N1 | 21-MAR-2011 19:15:06 | Bright | 56.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 113 | 47355 | No |
| 285 | GOM_TRA_1PNPDK20110321_191959_000000413100_00358_47355_3854.N1 | 21-MAR-2011 19:19:59 | Bright | 40.500 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 81 | 47355 | No |
| 286 | GOM_TRA_1PNPDK20110321_192338_000000493100_00358_47355_3855.N1 | 21-MAR-2011 19:23:38 | Bright | 48.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 97 | 47355 | No |
| 287 | GOM_TRA_1PNPDK20110321_193344_000000373100_00358_47355_3856.N1 | 21-MAR-2011 19:33:44 | Bright | 36.500 | 19 | 50Alp Cyg | 1.2460 | 10500. | 73 | 47355 | No |
| 288 | GOM_TRA_1PNPDK20110321_193520_000000393100_00358_47355_3857.N1 | 21-MAR-2011 19:35:20 | Bright | 38.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 77 | 47355 | No |
| 289 | GOM_TRA_1PNPDK20110321_193708_000000373100_00358_47355_3858.N1 | 21-MAR-2011 19:37:08 | Bright | 36.500 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 73 | 47355 | No |
| 290 | GOM_TRA_1PNPDK20110321_194556_000000573100_00358_47355_3859.N1 | 21-MAR-2011 19:45:56 | Twi_and_stray | 57.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 114 | 47355 | No |
| 291 | GOM_TRA_1PNPDK20110321_195640_000000503100_00358_47355_3860.N1 | 21-MAR-2011 19:56:40 | Dark | 49.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 99 | 47355 | No |
| 292 | GOM_TRA_1PNPDK20110321_195846_000000493100_00358_47355_3861.N1 | 21-MAR-2011 19:58:46 | Dark | 48.500 | 57 | 34Sig Sgr | 2.0660 | 26000. | 97 | 47355 | No |
| 293 | GOM_TRA_1PNPDK20110321_200029_000000673100_00358_47355_3862.N1 | 21-MAR-2011 20:00:29 | Dark | 67.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 134 | 47355 | No |
| 294 | GOM_TRA_1PNPDK20110321_200219_000000513100_00358_47355_3863.N1 | 21-MAR-2011 20:02:19 | Dark | 50.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 101 | 47355 | No |
| 295 | GOM_TRA_1PNPDK20110321_200752_000000443100_00359_47356_3864.N1 | 21-MAR-2011 20:07:52 | Dark | 43.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 87 | 47356 | No |
| 296 | GOM_TRA_1PNPDK20110321_201121_000000393100_00359_47356_3865.N1 | 21-MAR-2011 20:11:21 | Dark | 39.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 78 | 47356 | No |
| 297 | GOM_TRA_1PNPDK20110321_201404_000000563100_00359_47356_3866.N1 | 21-MAR-2011 20:14:04 | Dark | 55.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 111 | 47356 | No |
| 298 | GOM_TRA_1PNPDK20110321_201620_000000543100_00359_47356_3867.N1 | 21-MAR-2011 20:16:20 | Dark | 53.500 | 78 | Alp Lup | 2.3040 | 28000. | 107 | 47356 | No |
| 299 | GOM_TRA_1PNPDK20110321_201752_000000553100_00359_47356_3868.N1 | 21-MAR-2011 20:17:52 | Straylight | 55.000 | 81 | Eta Cen | 2.3560 | 28000. | 110 | 47356 | No |
| 300 | GOM_TRA_1PNPDE20110321_202002_000000443100_00359_47356_9585.N1 | 21-MAR-2011 20:20:02 | Straylight | 44.000 | 64 | Gam Cen | 2.2000 | 10600. | 88 | 47356 | Yes |
| 301 | GOM_TRA_1PNPDE20110321_202223_000000493100_00359_47356_9586.N1 | 21-MAR-2011 20:22:23 | Straylight | 48.500 | 123 | Iot Cen | 2.7500 | 10200. | 97 | 47356 | No |
| 302 | GOM_TRA_1PNPDE20110321_202745_000000523100_00359_47356_9587.N1 | 21-MAR-2011 20:27:45 | Straylight | 52.000 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 104 | 47356 | No |
| 303 | GOM_TRA_1PNPDE20110321_202954_000000483100_00359_47356_9588.N1 | 21-MAR-2011 20:29:54 | Twi_and_stray | 48.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 96 | 47356 | No |
| 304 | GOM_TRA_1PNPDE20110321_204020_000000443100_00359_47356_9589.N1 | 21-MAR-2011 20:40:20 | Bright | 43.500 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 87 | 47356 | No |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 305 | GOM_TRA_1PNPDE20110321_204838_000000383100_00359_47356_9590.N1 | 21-MAR-2011 20:48:38 | Bright | 38.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 76 | 47356 | No |
| 306 | GOM_TRA_1PNPDE20110321_205153_000000383100_00359_47356_9591.N1 | 21-MAR-2011 20:51:53 | Bright | 37.500 | 82 | 48Bet UMa | 2.3650 | 10600. | 75 | 47356 | No |
| 307 | GOM_TRA_1PNPDE20110321_205324_000000403100_00359_47356_9592.N1 | 21-MAR-2011 20:53:24 | Bright | 39.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 79 | 47356 | No |
| 308 | GOM_TRA_1PNPDE20110321_205519_000000463100_00359_47356_9593.N1 | 21-MAR-2011 20:55:19 | Bright | 45.500 | 55 | 79Zet UMa | 2.0600 | 10200. | 91 | 47356 | No |
| 309 | GOM_TRA_1PNPDE20110321_210013_000000423100_00359_47356_9594.N1 | 21-MAR-2011 21:00:13 | Bright | 42.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 84 | 47356 | No |
| 310 | GOM_TRA_1PNPDE20110321_210351_000000493100_00359_47356_9595.N1 | 21-MAR-2011 21:03:51 | Bright | 49.000 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 98 | 47356 | No |
| 311 | GOM_TRA_1PNPDE20110321_211359_000000453100_00359_47356_9596.N1 | 21-MAR-2011 21:13:59 | Bright | 45.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 90 | 47356 | No |
| 312 | GOM_TRA_1PNPDE20110321_211534_000000563100_00359_47356_9597.N1 | 21-MAR-2011 21:15:34 | Bright | 55.500 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 111 | 47356 | No |
| 313 | GOM_TRA_1PNPDE20110321_211722_000000533100_00359_47356_9598.N1 | 21-MAR-2011 21:17:22 | Bright | 52.500 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 105 | 47356 | No |
| 314 | GOM_TRA_1PNPDE20110321_212610_000000553100_00359_47356_9599.N1 | 21-MAR-2011 21:26:10 | Twi_and_stray | 55.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 110 | 47356 | No |
| 315 | GOM_TRA_1PNPDE20110321_213655_000000483100_00359_47356_9602.N1 | 21-MAR-2011 21:36:55 | Dark | 47.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 95 | 47356 | No |
| 316 | GOM_TRA_1PNPDE20110321_213901_000000503100_00359_47356_9603.N1 | 21-MAR-2011 21:39:01 | Dark | 50.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 100 | 47356 | No |
| 317 | GOM_TRA_1PNPDE20110321_214044_000000563100_00359_47356_9604.N1 | 21-MAR-2011 21:40:44 | Dark | 56.000 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 112 | 47356 | No |
| 318 | GOM_TRA_1PNPDE20110321_214235_000000543100_00359_47356_9605.N1 | 21-MAR-2011 21:42:35 | Dark | 53.500 | 38 | 20Eps Sgr | 1.8360 | 11000. | 107 | 47356 | No |
| 319 | GOM_TRA_1PNPDE20110321_214806_000000473100_00360_47357_9606.N1 | 21-MAR-2011 21:48:06 | Dark | 46.500 | 141 | Bet Ara | 2.8400 | 4600.0 | 93 | 47357 | No |
| 320 | GOM_TRA_1PNPDE20110321_215135_000000413100_00360_47357_9607.N1 | 21-MAR-2011 21:51:35 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47357 | No |
| 321 | GOM_TRA_1PNPDE20110321_215418_000000473100_00360_47357_9608.N1 | 21-MAR-2011 21:54:18 | Dark | 46.500 | 4 | Alp1Cen | -0.010000 | 5800.0 | 93 | 47357 | No |
| 322 | GOM_TRA_1PNPDE20110321_215635_000000473100_00360_47357_9609.N1 | 21-MAR-2011 21:56:35 | Dark | 47.000 | 78 | Alp Lup | 2.3040 | 28000. | 94 | 47357 | No |
| 323 | GOM_TRA_1PNPDE20110321_215807_000000503100_00360_47357_9610.N1 | 21-MAR-2011 21:58:07 | Straylight | 49.500 | 81 | Eta Cen | 2.3560 | 28000. | 99 | 47357 | No |
| 324 | GOM_TRA_1PNPDE20110321_220016_000000433100_00360_47357_9611.N1 | 21-MAR-2011 22:00:16 | Straylight | 43.000 | 64 | Gam Cen | 2.2000 | 10600. | 86 | 47357 | No |
| 325 | GOM_TRA_1PNPDE20110321_220237_000000493100_00360_47357_9612.N1 | 21-MAR-2011 22:02:37 | Straylight | 49.000 | 123 | Iot Cen | 2.7500 | 10200. | 98 | 47357 | No |
| 326 | GOM_TRA_1PNPDE20110321_220759_000000513100_00360_47357_9613.N1 | 21-MAR-2011 22:07:59 | Straylight | 50.500 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 101 | 47357 | No |
| 327 | GOM_TRA_1PNPDE20110321_221008_000000463100_00360_47357_9614.N1 | 21-MAR-2011 22:10:08 | Twi_and_stray | 45.500 | 100 | 4Gam Crv | 2.5800 | 13100. | 91 | 47357 | No |
| 328 | GOM_TRA_1PNPDE20110321_222033_000000503100_00360_47357_9615.N1 | 21-MAR-2011 22:20:33 | Bright | 50.000 | 62 | 94Bet Leo | 2.1360 | 9700.0 | 100 | 47357 | No |
| 329 | GOM_TRA_1PNPDE20110321_222851_000000383100_00360_47357_9616.N1 | 21-MAR-2011 22:28:51 | Bright | 38.000 | 174 | 52Psi UMa | 3.0040 | 4400.0 | 76 | 47357 | No |
| 330 | GOM_TRA_1PNPDE20110321_223207_000000373100_00360_47357_9617.N1 | 21-MAR-2011 22:32:07 | Bright | 37.000 | 82 | 48Bet UMa | 2.3650 | 10600. | 74 | 47357 | No |
| 331 | GOM_TRA_1PNPDE20110321_223337_000000383100_00360_47357_9618.N1 | 21-MAR-2011 22:33:37 | Bright | 37.500 | 36 | 50Alp UMa | 1.8000 | 6300.0 | 75 | 47357 | No |
| 332 | GOM_TRA_1PNPDE20110321_223532_000000463100_00360_47357_9619.N1 | 21-MAR-2011 22:35:32 | Bright | 46.000 | 55 | 79Zet UMa | 2.0600 | 10200. | 92 | 47357 | No |
| 333 | GOM_TRA_1PNPDE20110321_224027_000000403100_00360_47357_9620.N1 | 21-MAR-2011 22:40:27 | Bright | 40.000 | 60 | 7Bet UMi | 2.0810 | 3950.0 | 80 | 47357 | No |
| 334 | GOM_TRA_1PNPDE20110321_224405_000000493100_00360_47357_9621.N1 | 21-MAR-2011 22:44:05 | Bright | 48.500 | 119 | 14Eta Dra | 2.7270 | 4700.0 | 97 | 47357 | No |
| 335 | GOM_TRA_1PNPDE20110321_225413_000000363100_00360_47357_9622.N1 | 21-MAR-2011 22:54:13 | Bright | 36.000 | 19 | 50Alp Cyg | 1.2460 | 10500. | 72 | 47357 | No |
| 336 | GOM_TRA_1PNPDE20110321_225548_000000413100_00360_47357_9623.N1 | 21-MAR-2011 22:55:48 | Bright | 41.000 | 66 | 37Gam Cyg | 2.2080 | 5900.0 | 82 | 47357 | No |
| 337 | GOM_TRA_1PNPDE20110321_225736_000000563100_00360_47357_9624.N1 | 21-MAR-2011 22:57:36 | Bright | 56.000 | 92 | 53Eps Cyg | 2.5000 | 4500.0 | 112 | 47357 | No |
| 338 | GOM_TRA_1PNPDE20110321_230625_000000583100_00360_47357_9625.N1 | 21-MAR-2011 23:06:25 | Twi_and_stray | 58.000 | 11 | 53Alp Aql | 0.76500 | 8000.0 | 116 | 47357 | No |
| 339 | GOM_TRA_1PNPDE20110321_231709_000000493100_00360_47357_9626.N1 | 21-MAR-2011 23:17:09 | Dark | 48.500 | 155 | 41Pi Sgr | 2.9000 | 6600.0 | 97 | 47357 | No |
| 340 | GOM_TRA_1PNPDE20110321_231916_000000473100_00360_47357_9627.N1 | 21-MAR-2011 23:19:16 | Dark | 47.000 | 57 | 34Sig Sgr | 2.0660 | 26000. | 94 | 47357 | No |
| 341 | GOM_TRA_1PNPDE20110321_232059_000000573100_00360_47357_9628.N1 | 21-MAR-2011 23:20:59 | Dark | 56.500 | 137 | 22Lam Sgr | 2.8240 | 4400.0 | 113 | 47357 | No |
| 342 | GOM_TRA_1PNPDE20110321_232250_000000513100_00360_47357_9629.N1 | 21-MAR-2011 23:22:50 | Dark | 51.000 | 38 | 20Eps Sgr | 1.8360 | 11000. | 102 | 47357 | No |
| 343 | GOM_TRA_1PNPDE20110321_232821_000000423100_00361_47358_9630.N1 | 21-MAR-2011 23:28:21 | Dark | 42.000 | 141 | Bet Ara | 2.8400 | 4600.0 | 84 | 47358 | No |
| 344 | GOM_TRA_1PNPDE20110321_233150_000000413100_00361_47358_9631.N1 | 21-MAR-2011 23:31:50 | Dark | 41.000 | 134 | Bet TrA | 2.8100 | 6600.0 | 82 | 47358 | No |
| 345 | GOM_TRA_1PNPDE20110321_233433_000000553100_00361_47358_9632.N1 | 21-MAR-2011 23:34:33 | Dark | 55.000 | 4 | Alp1Cen | -0.010000 | 5800.0 | 110 | 47358 | No |
| 346 | GOM_TRA_1PNPDE20110321_233650_000000523100_00361_47358_9633.N1 | 21-MAR-2011 23:36:50 | Dark | 52.000 | 78 | Alp Lup | 2.3040 | 28000. | 104 | 47358 | No |
| 347 | GOM_TRA_1PNPDE20110321_233821_000000533100_00361_47358_9634.N1 | 21-MAR-2011 23:38:21 | Straylight | 52.500 | 81 | Eta Cen | 2.3560 | 28000. | 105 | 47358 | No |
| 348 | GOM_TRA_1PNPDE20110321_234031_000000453100_00361_47358_9635.N1 | 21-MAR-2011 23:40:31 | Straylight | 45.000 | 64 | Gam Cen | 2.2000 | 10600. | 90 | 47358 | No |
| 349 | GOM_TRA_1PNPDE20110321_234252_000000493100_00361_47358_9636.N1 | 21-MAR-2011 23:42:52 | Straylight | 48.500 | 123 | Iot Cen | 2.7500 | 10200. | 97 | 47358 | No |
| 350 | GOM_TRA_1PNPDE20110321_234813_000000533100_00361_47358_9637.N1 | 21-MAR-2011 23:48:13 | Straylight | 52.500 | 106 | 9Bet Crv | 2.6480 | 5600.0 | 105 | 47358 | No |
| 351 | GOM_TRA_1PNPDE20110321_235022_000000483100_00361_47358_9638.N1 | 21-MAR-2011 23:50:22 | Twi_and_stray | 48.000 | 100 | 4Gam Crv | 2.5800 | 13100. | 96 | 47358 | No |

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



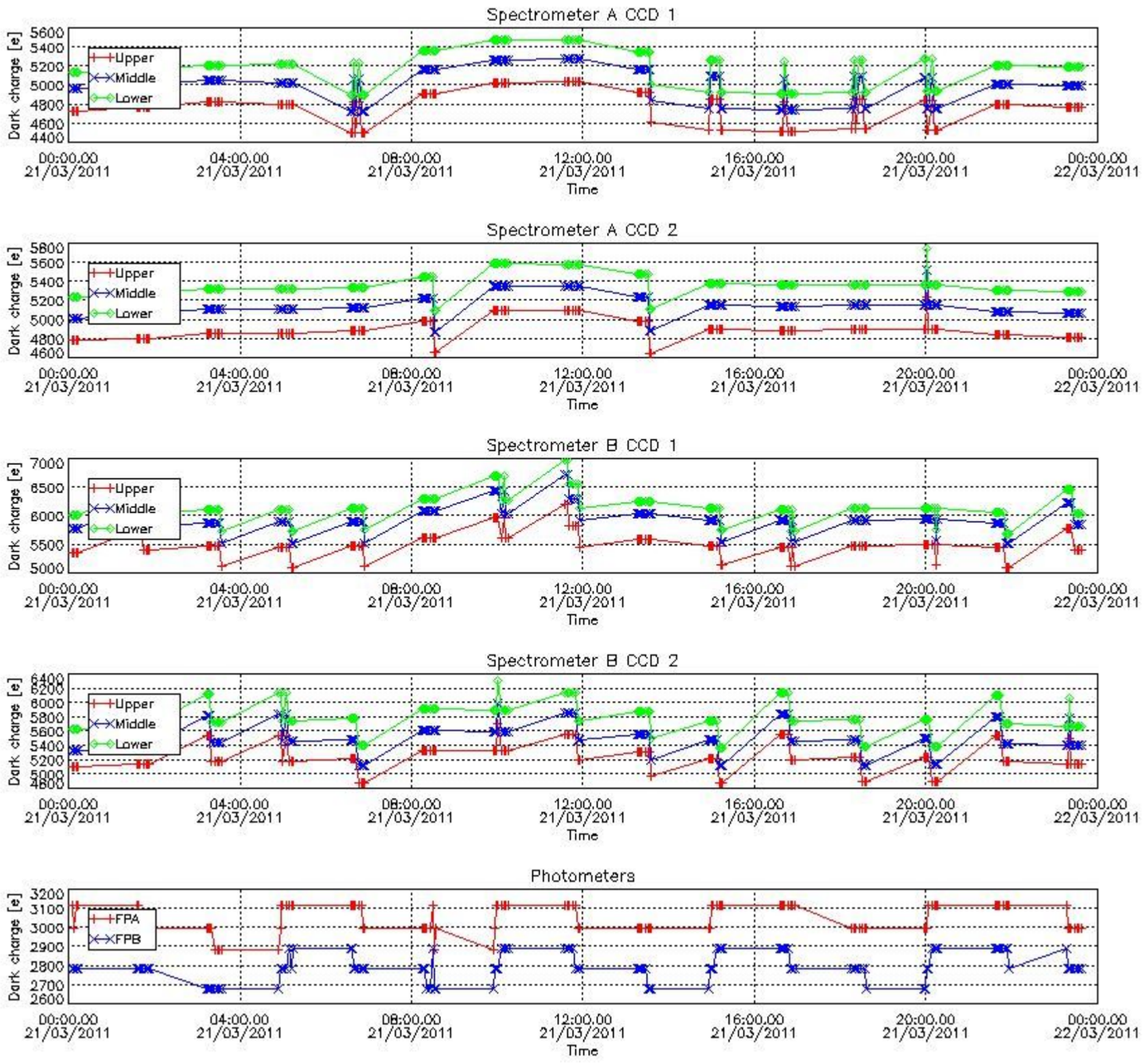

## 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore substracted 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_1PNPDE20110321_202002_000000443100_00359_47356_9585.N1 | DC map with no T dep. |
| GOM_TRA_1PNPDE20110321_202223_000000493100_00359_47356_9586.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_202745_000000523100_00359_47356_9587.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_202954_000000483100_00359_47356_9588.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_204020_000000443100_00359_47356_9589.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_204838_000000383100_00359_47356_9590.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_205153_000000383100_00359_47356_9591.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_205324_000000403100_00359_47356_9592.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_205519_000000463100_00359_47356_9593.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_210013_000000423100_00359_47356_9594.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_210351_000000493100_00359_47356_9595.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_211359_000000453100_00359_47356_9596.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_211534_000000563100_00359_47356_9597.N1 | DC map used |
| GOM_TRA_1PNPDE20110321_211722_000000533100_00359_47356_9598.N1 | DC map used |

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



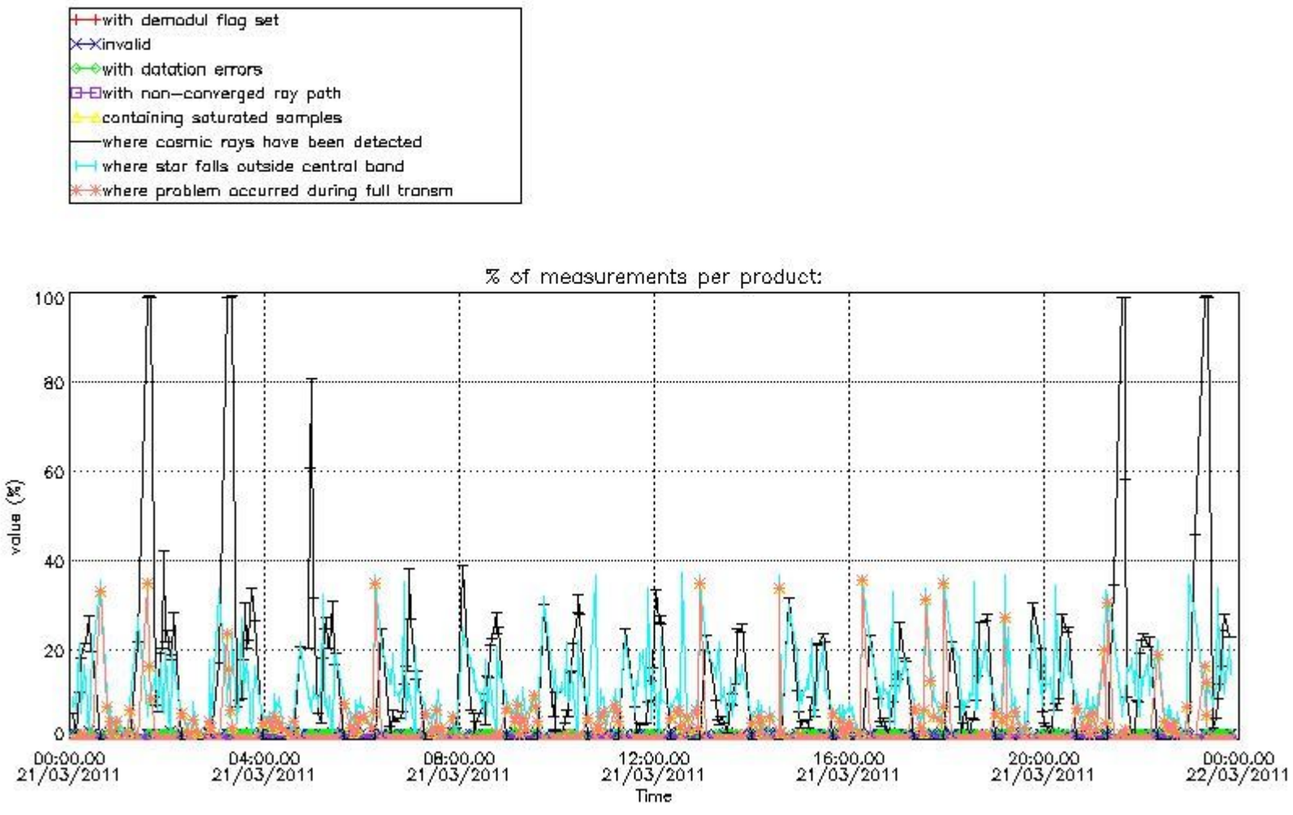

## 5. Demodulation flag and quality information monitoring

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

## 5.1 Percentage of products during reporting period with:

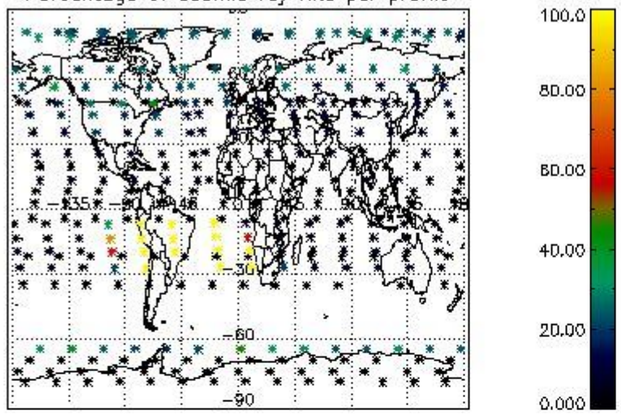
| | |
|---|---|
| At least one measurement with demodulation flag set: | 52.4355 % |
| Reference spectrum computed from DB: | 0.00000 % |
| Reference spectrum with small number of measurements: | 0.00000 % |
| SATU data not used: | 0.00000 % |

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

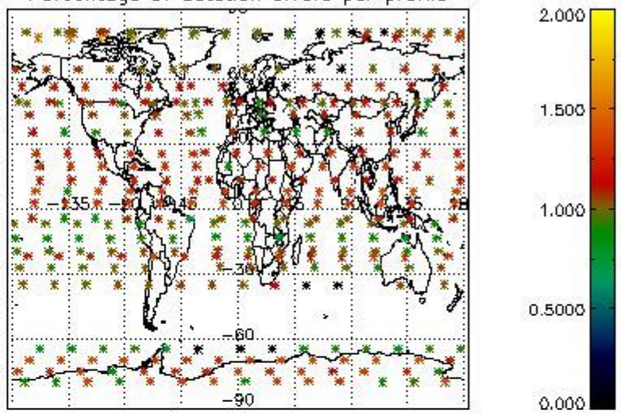



## 5.3 Plot quality information per product (world map)

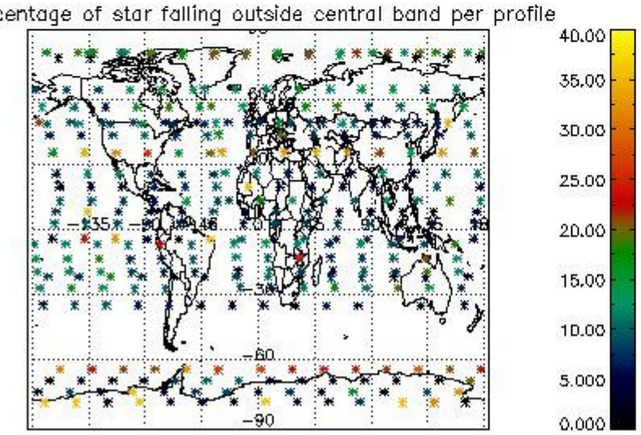
Percentage of cosmic ray hits per profile



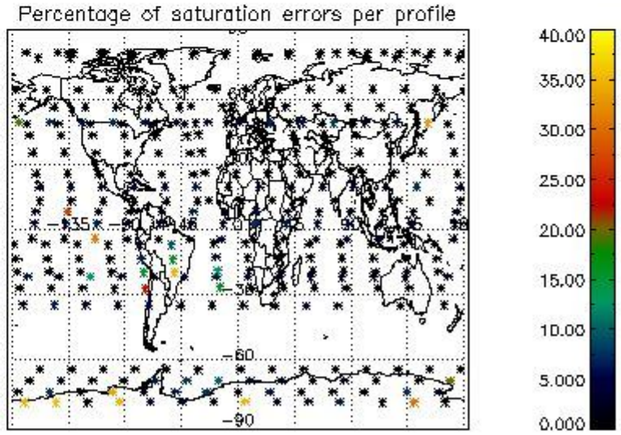

Percentage of datation errors per profile




Percentage of star falling outside central band per profile




Percentage of saturation errors per profile



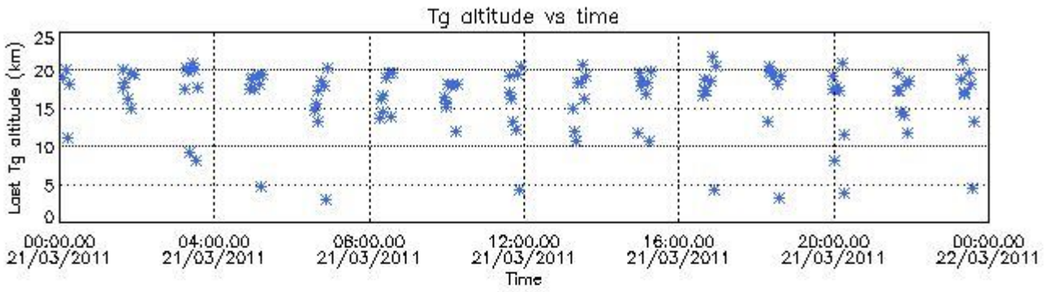

## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

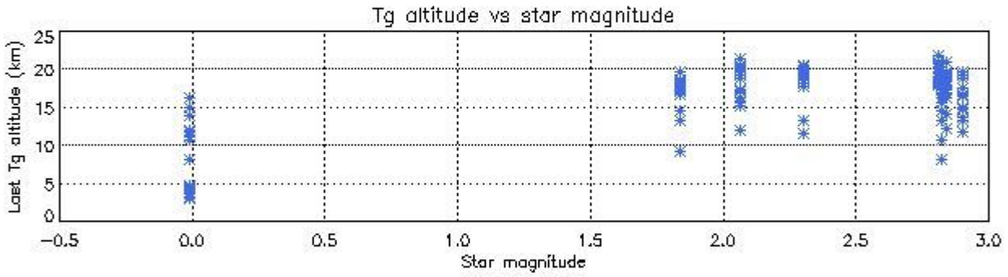
### *6.1 Statistics on tangent altitude lost:*

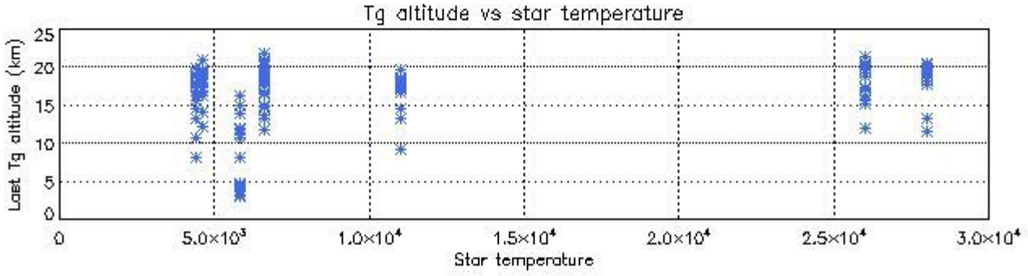
| Statistics | DARK | BRIGHT | TWILIGHT |
|---|---|---|---|
| Mean: | 16.347 | 19.460 | NaN |
| St. deviation: | 4.3046 | 5.5619 | NaN |
| Maximum: | 21.800 | 29.060 | NaN |
| Minimum: | 2.9869 | 3.0637 | NaN |
| Number of data: | 115.00 | 139.00 | NaN |

### *6.2 Plot for DARK limb products*

Tangent altitude at which the star is lost

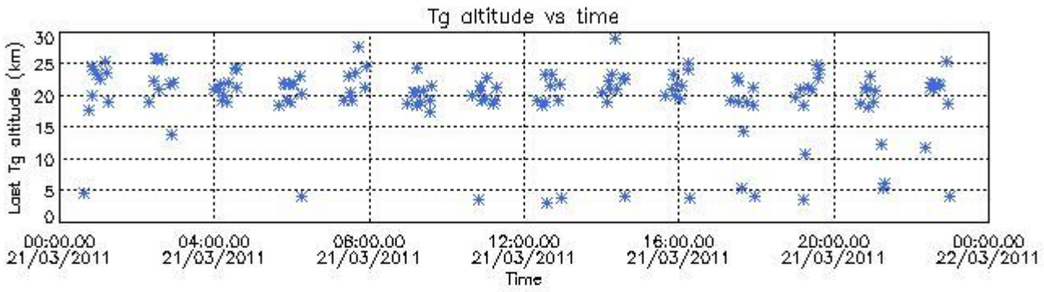


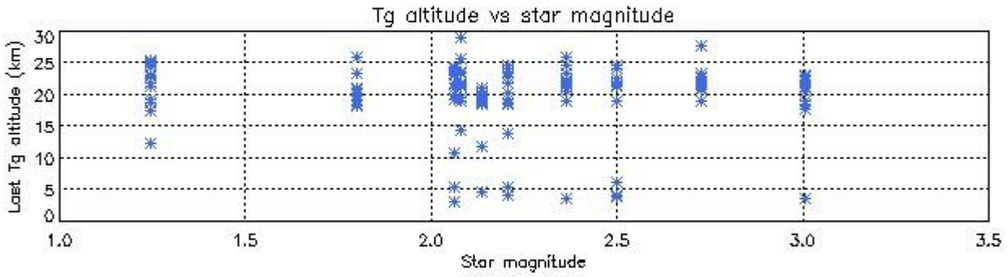



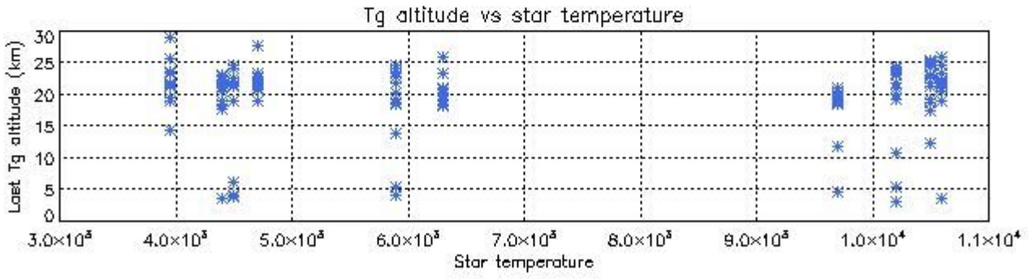




*6.3 Plot for BRIGHT limb products*

Tangent altitude at which the star is lost



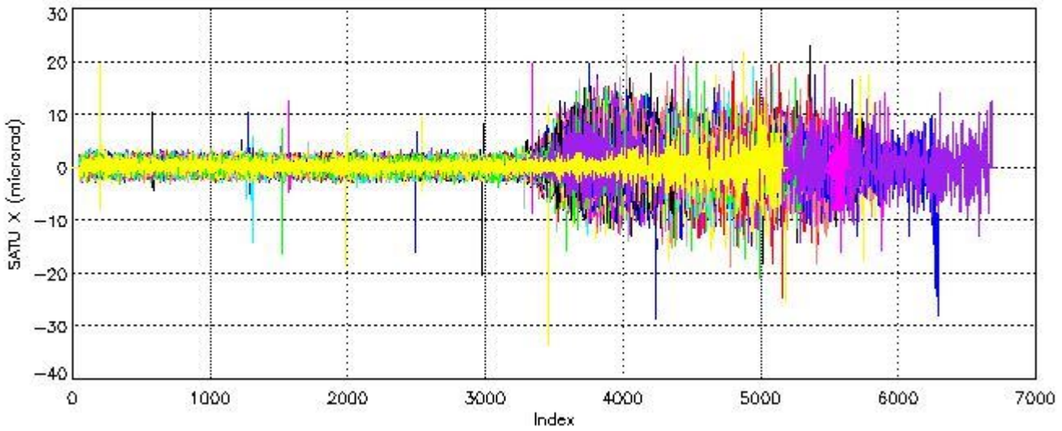



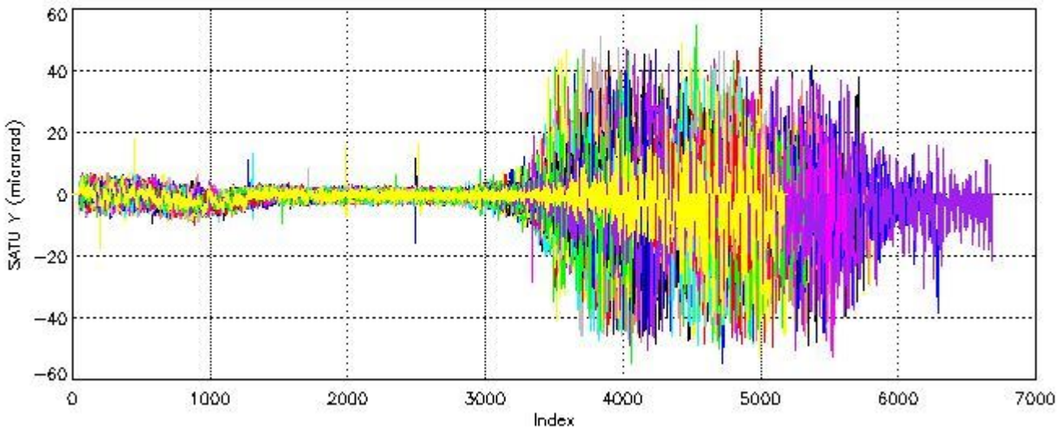

## 7. Star Acquisition and Tracking Unit (SATU)

The Star Acquisition and Tracking Unit (SATU) analyses the position of the tracked star beam collected by the GOMOS telescope and deflected by the optical beam dispatcher. The main functin 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 frecuency 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: | 0.22732 | -1.0600 | 0.18487 | -1.2280 |
| St. deviation: | 0.60631 | 2.0338 | 0.63614 | 1.9507 |
| Maximum: | 19.600 | 18.100 | 5.9000 | 9.7000 |
| Minimum: | -8.2000 | -17.200 | -6.2000 | -16.900 |

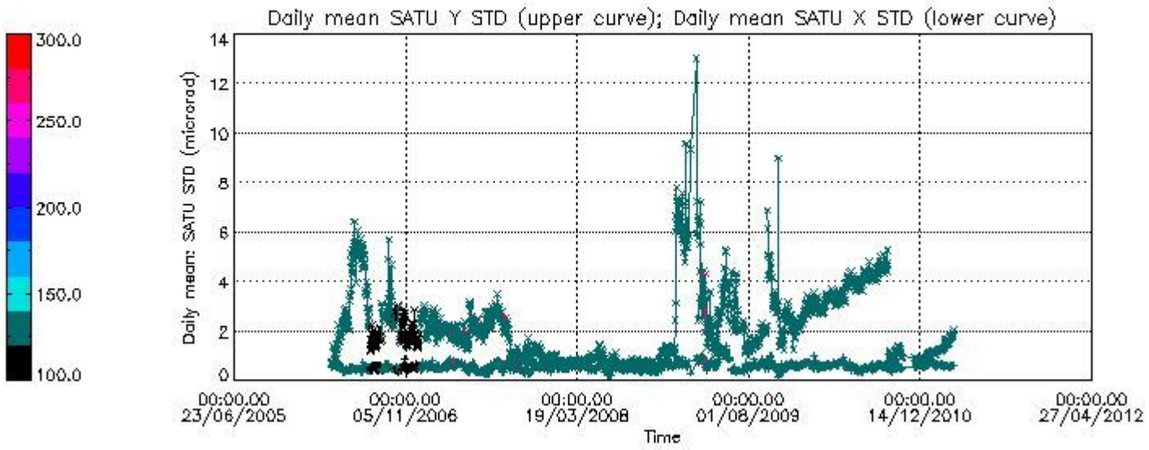
| Number of data: | 1.2790E+05 | 1.2790E+05 | 1.3365E+05 | 1.3365E+05 |
|---|---|---|---|---|

## 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

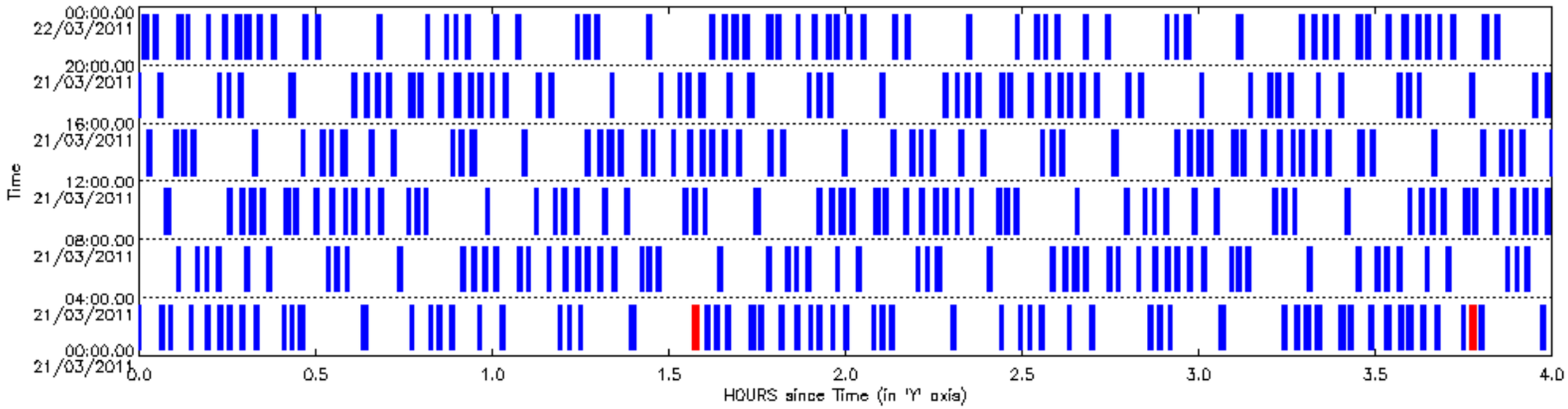


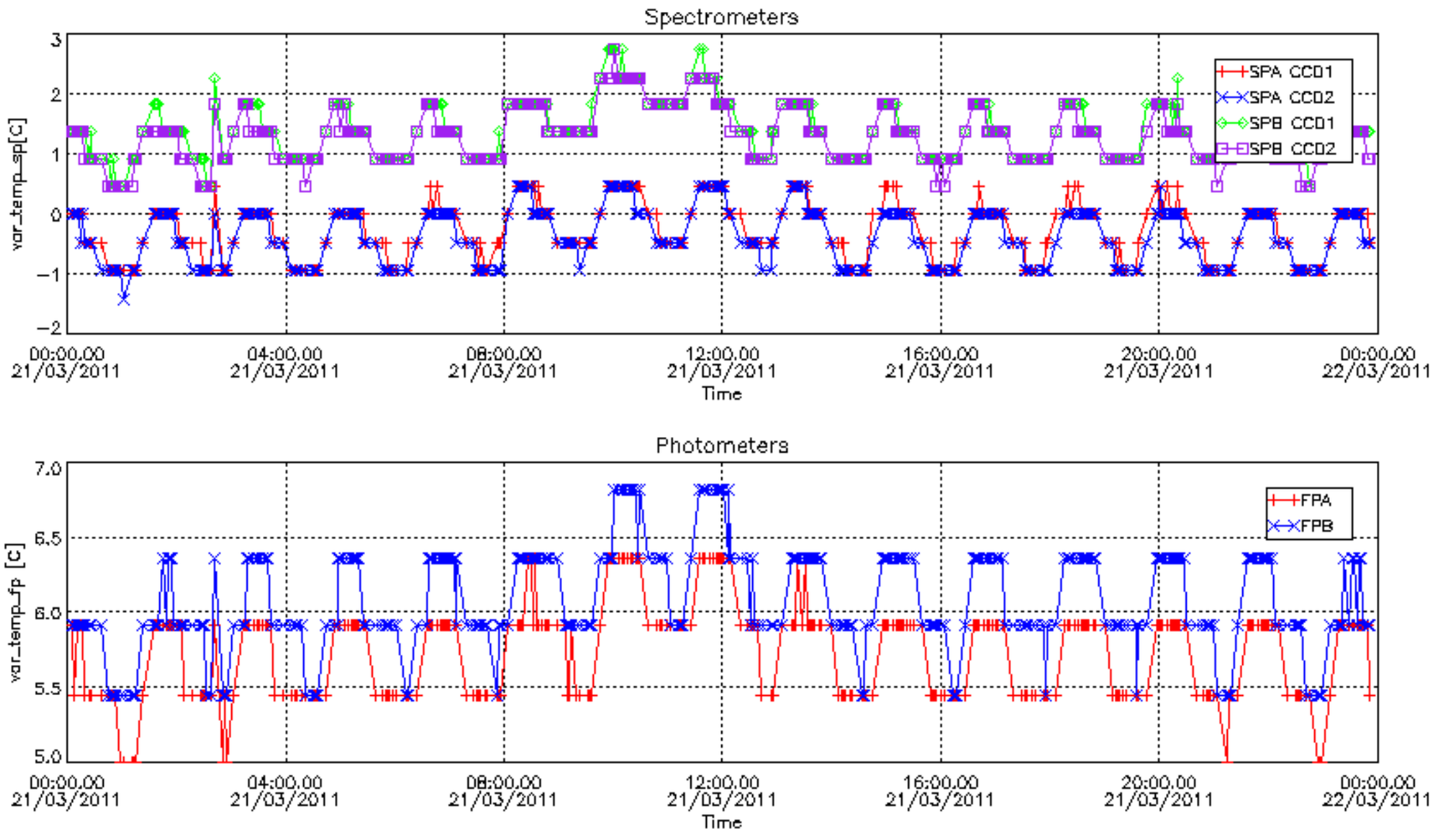

## 8. Auxiliary Data Files used for the production reported in section 2.4

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.

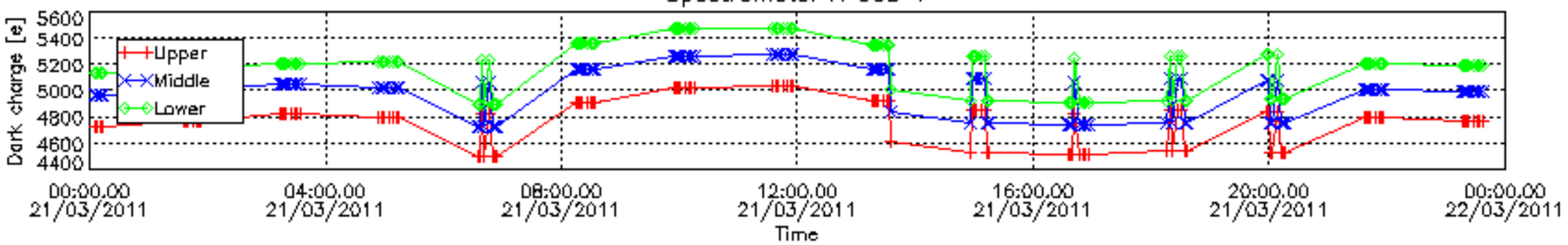
| Type | Auxiliary Filename | Used since product | Used since product date |
|---|---|---|---|
| INST_PHYS_CHARACTERISTICS | GOM_INS_AXVIEC20091111_143220_20030716_120000_20500101_000000 | 1 | 21-MAR-2011 00:04:55 |
| CALIBRATION_DATABASE | GOM_CAL_AXVIEC20110315_090015_20110314_000000_20500101_000000 | 1 | 21-MAR-2011 00:04:55 |
| LEVEL-1B_PROC_CONFIG | GOM_PR1_AXVIEC20091111_145255_20020301_000000_20500101_000000 | 1 | 21-MAR-2011 00:04:55 |
| STAR_CATALOGUE | GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000 | 1 | 21-MAR-2011 00:04:55 |
| STELLAR_SPECTRA_DATABANK | GOM_STS_AXVIEC20091111_151504_20020101_160000_20500101_000000 | 1 | 21-MAR-2011 00:04:55 |
| ECMWF_FILE | AUX_ECF_AXNECM20110320_052115_20110320_210000_20110321_090000 | 1 | 21-MAR-2011 00:04:55 |
| ECMWF_FILE | AUX_ECF_AXNECM20110320_172115_20110321_030000_20110321_150000 | 66 | 21-MAR-2011 04:31:38 |
| ECMWF_FILE | AUX_ECA_AXNECM20110321_052113_20110320_210000_20110321_090000 | 91 | 21-MAR-2011 06:11:52 |
| ECMWF_FILE | AUX_ECF_AXNECM20110320_172115_20110321_030000_20110321_150000 | 134 | 21-MAR-2011 08:58:44 |
| ECMWF_FILE | AUX_ECF_AXNECM20110321_052114_20110321_090000_20110321_210000 | 159 | 21-MAR-2011 10:38:57 |
| ECMWF_FILE | AUX_ECF_AXNECM20110321_052114_20110321_150000_20110322_030000 | 230 | 21-MAR-2011 15:27:02 |
| ECMWF_FILE | AUX_ECA_AXNECM20110321_165727_20110321_090000_20110321_210000 | 254 | 21-MAR-2011 17:07:16 |
| ECMWF_FILE | MISSING | 300 | 21-MAR-2011 20:20:02 |
| OPTIONAL_ECMWF_FILE | MISSING | 1 | 21-MAR-2011 00:04:55 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20110320_234439_000057383100_00346_47343_2738.N1 | 1 | 21-MAR-2011 00:04:55 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20110321_012536_000041443100_00347_47344_2739.N1 | 22 | 21-MAR-2011 01:36:01 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20110321_024000_000057383100_00348_47345_2740.N1 | 41 | 21-MAR-2011 02:41:24 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20110319_222425_20110319_193719_20110329_201055 | 66 | 21-MAR-2011 04:31:38 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_060154_000038253100_00350_47347_4104.N1 | 91 | 21-MAR-2011 06:11:52 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_071058_000057383100_00351_47348_4105.N1 | 109 | 21-MAR-2011 07:18:30 |

| | | | |
|---|---|---|---|
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_085155_000054193100_00352_47349_4106.N1 | 134 | 21-MAR-2011 08:58:44 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_102733_000057383100_00353_47350_4107.N1 | 159 | 21-MAR-2011 10:38:57 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_120830_000054193100_00354_47351_4108.N1 | 184 | 21-MAR-2011 12:19:11 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_134408_000057383100_00355_47352_4109.N1 | 207 | 21-MAR-2011 13:48:57 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_151946_000057383100_00356_47353_4110.N1 | 230 | 21-MAR-2011 15:27:02 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_170043_000054193100_00357_47354_4111.N1 | 254 | 21-MAR-2011 17:07:16 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDK20110321_183622_000057383100_00358_47355_4112.N1 | 277 | 21-MAR-2011 18:42:08 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20110321_201719_000041443100_00359_47356_2742.N1 | 300 | 21-MAR-2011 20:20:02 |
| ORBIT_DATA_FILE | AUX_FPO_AXVPDS20110321_102601_20110320_190035_20110330_211425 | 315 | 21-MAR-2011 21:36:55 |
| ORBIT_DATA_FILE | DOR_NAV_0PNPDE20110321_231239_000057383100_00360_47357_2744.N1 | 339 | 21-MAR-2011 23:17:09 |

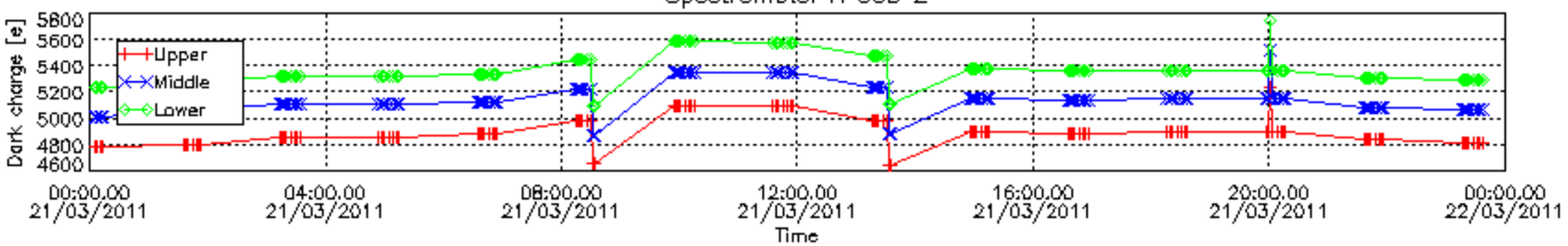

00:00.00
22/03/2011
20:00.00
21/03/2011
16:00.00
21/03/2011
12:00.00
21/03/2011
08:00.00
21/03/2011
04:00.00
21/03/2011
00:00.00
21/03/2011
Time
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
4.0
HOURS since Time (in 'Y' axis)


Spectrometers
var_temp_sp[C]
3
2
1
0
−1
−2
SPA CCD1
SPA CCD2
SPB CCD1
SPB CCD2
00:00.00
21/03/2011
04:00.00
21/03/2011
08:00.00
21/03/2011
12:00.00
21/03/2011
16:00.00
21/03/2011
20:00.00
21/03/2011
00:00.00
22/03/2011
Time
Photometers
var_temp_fp [C]
7.0
6.5
6.0
5.5
5.0
FPA
FPB
00:00.00
21/03/2011
04:00.00
21/03/2011
08:00.00
21/03/2011
12:00.00
21/03/2011
16:00.00
21/03/2011
20:00.00
21/03/2011
00:00.00
22/03/2011
Time

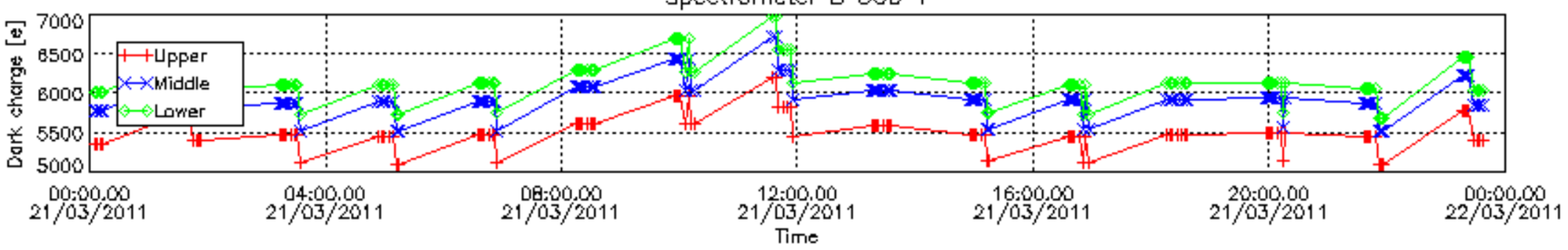
Spectrometer A CCD 1



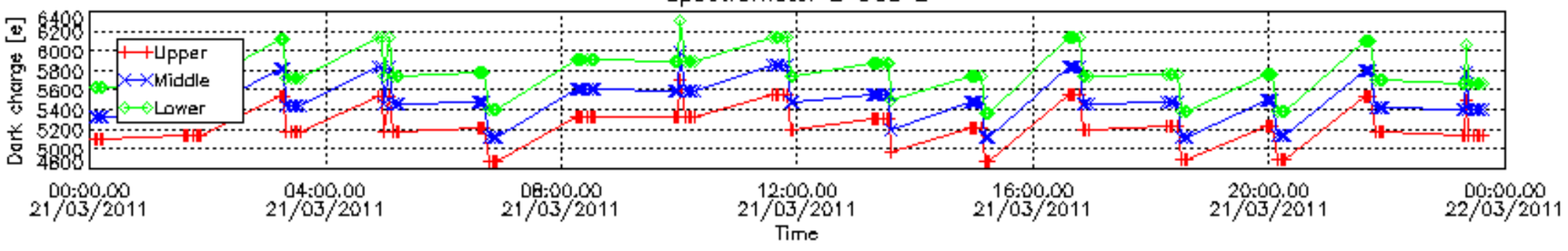

Spectrometer A CCD 2



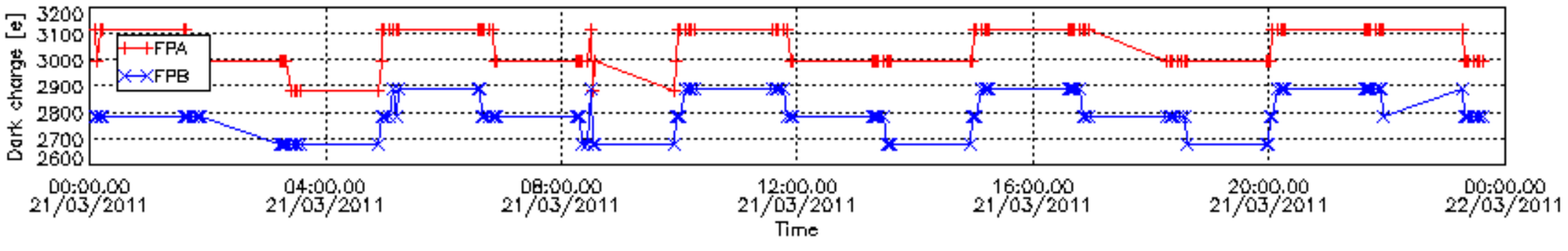

Spectrometer B CCD 1

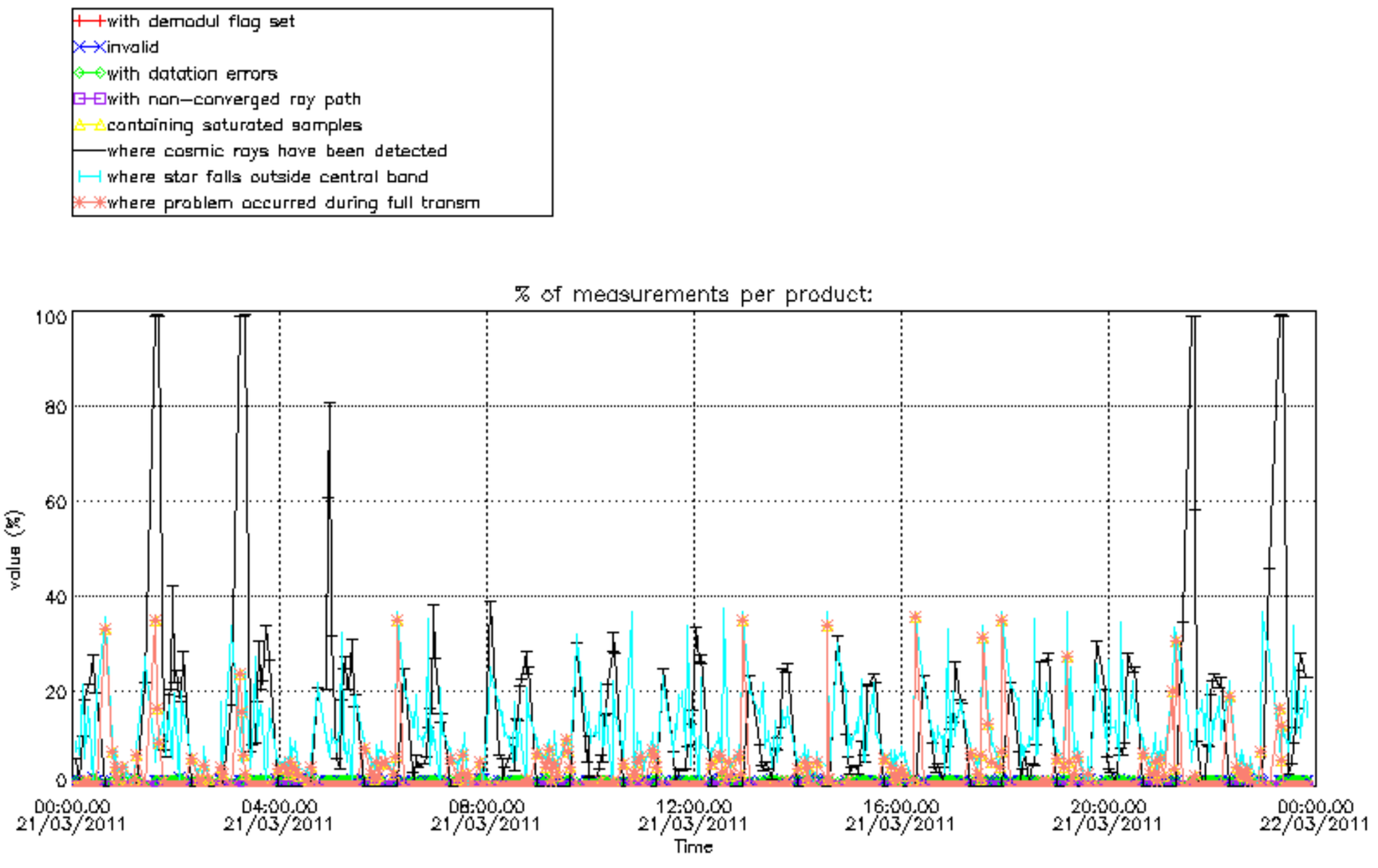


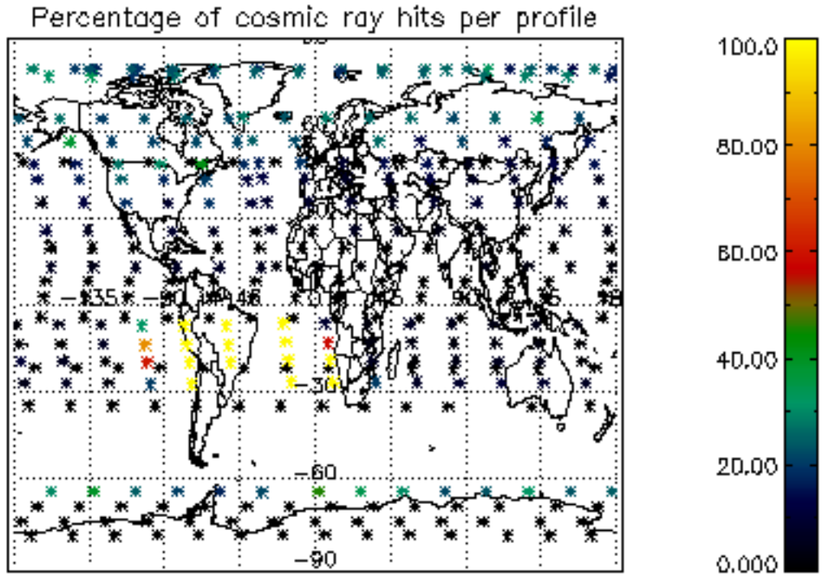

Spectrometer B CCD 2

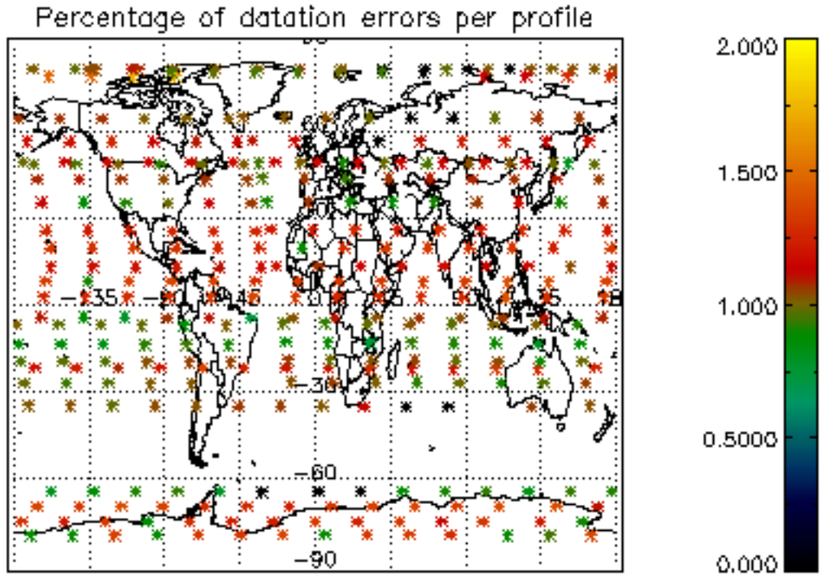


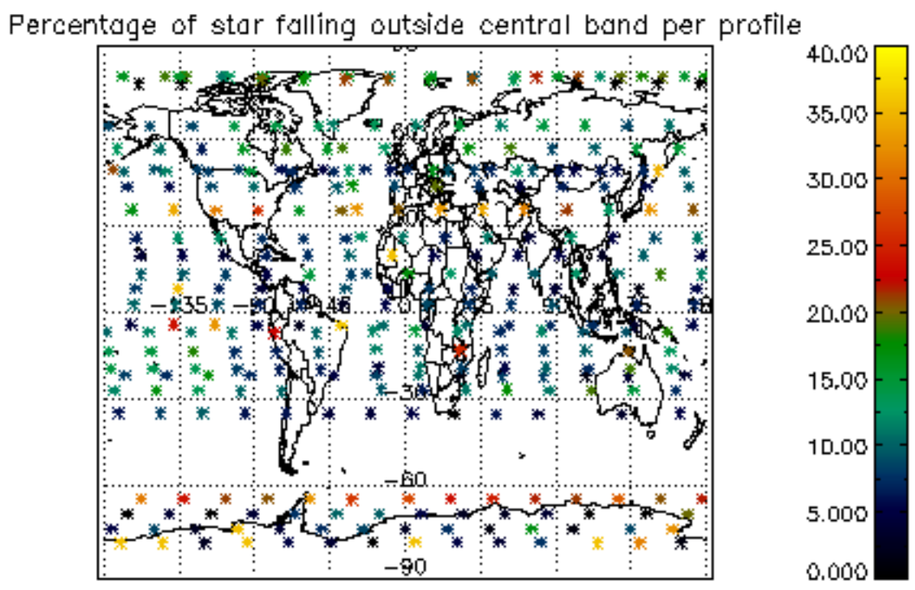

Photometers

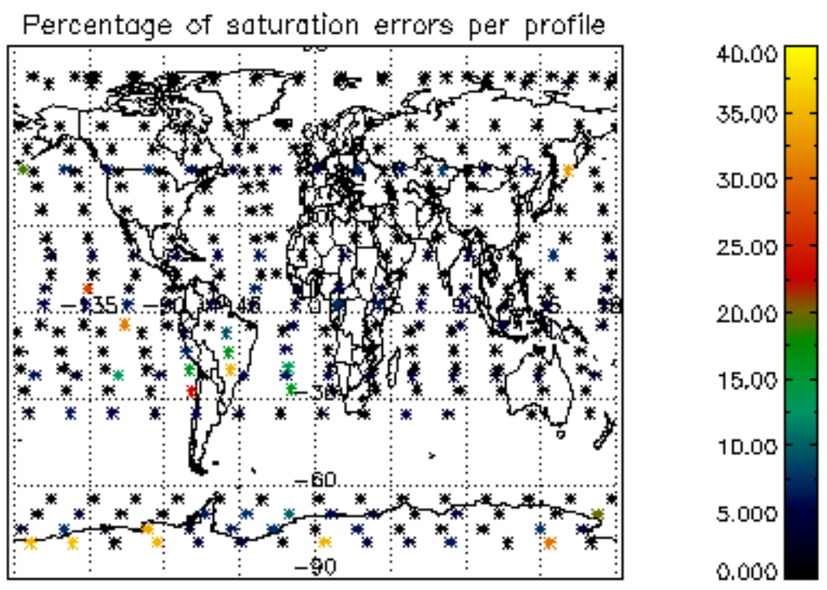



with demodul flag set
invalid
with datation errors
with non-converged ray path
containing saturated samples
where cosmic rays have been detected
where star falls outside central band
where problem occurred during full transm
% of measurements per product:
value (%)
100
80
60
40
20
0
00:00.00 21/03/2011
04:00.00 21/03/2011
08:00.00 21/03/2011
12:00.00 21/03/2011
16:00.00 21/03/2011
20:00.00 21/03/2011
00:00.00 22/03/2011
Time

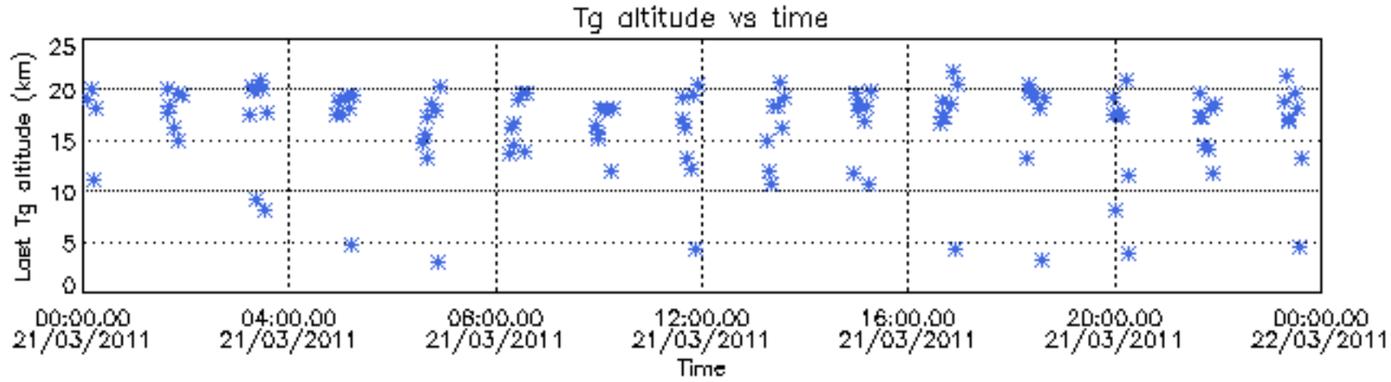

Percentage of cosmic ray hits per profile
100.0
80.00
60.00
40.00
20.00
0.000
−135
−90
−60
−30
−90

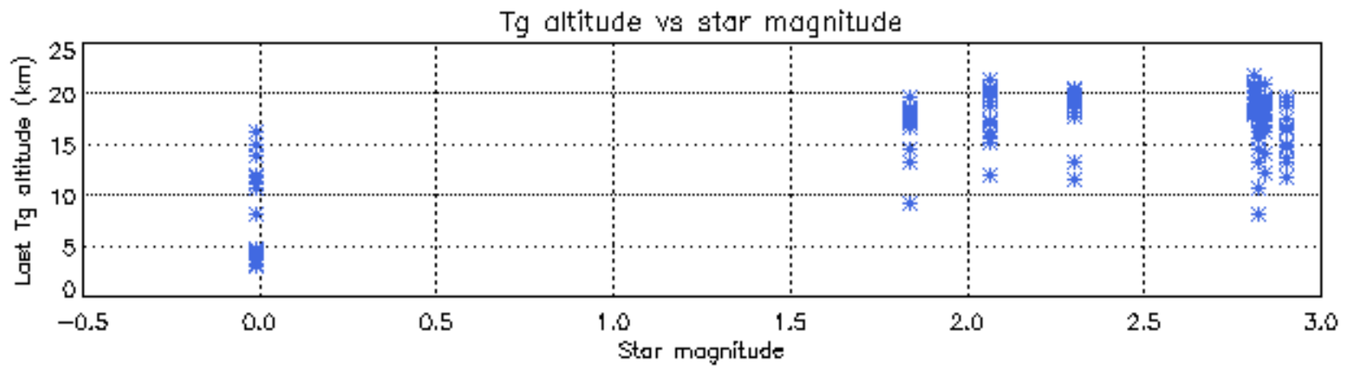

Percentage of datation errors per profile
2.000
1.500
1.000
0.5000
0.000
−135
−90
−60
−30
−90

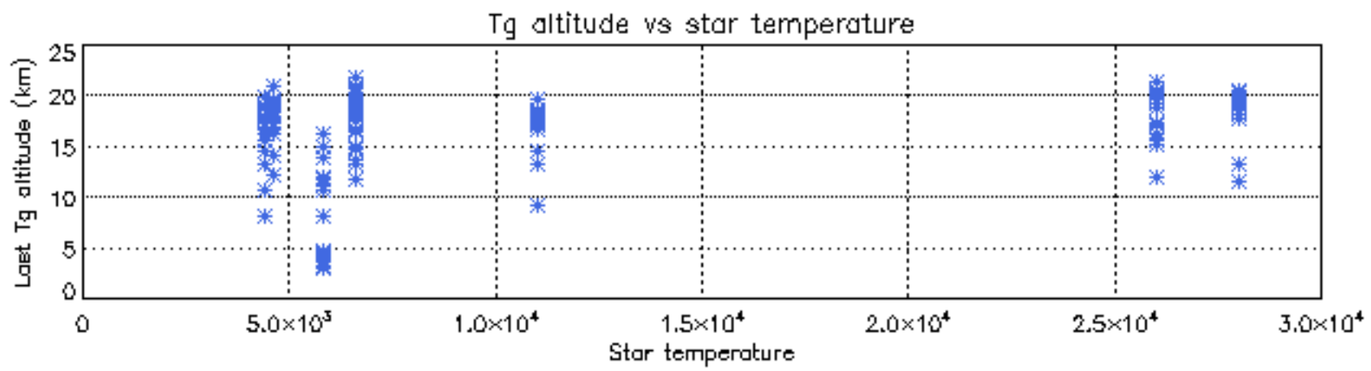

Percentage of star falling outside central band per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−60
−30
−90


Percentage of saturation errors per profile
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.000
0.000
−135
−90
−60
−30
−90

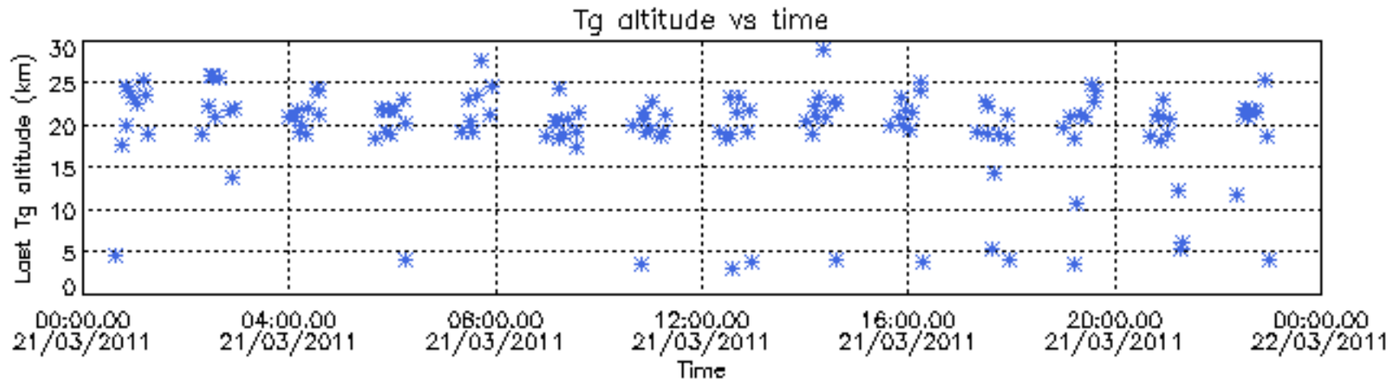
Tangent altitude at which the star is lost

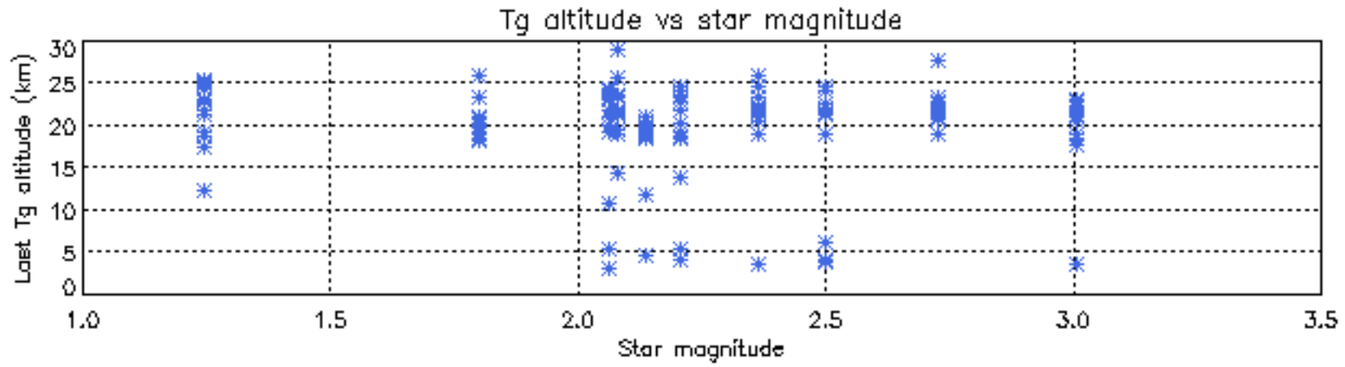


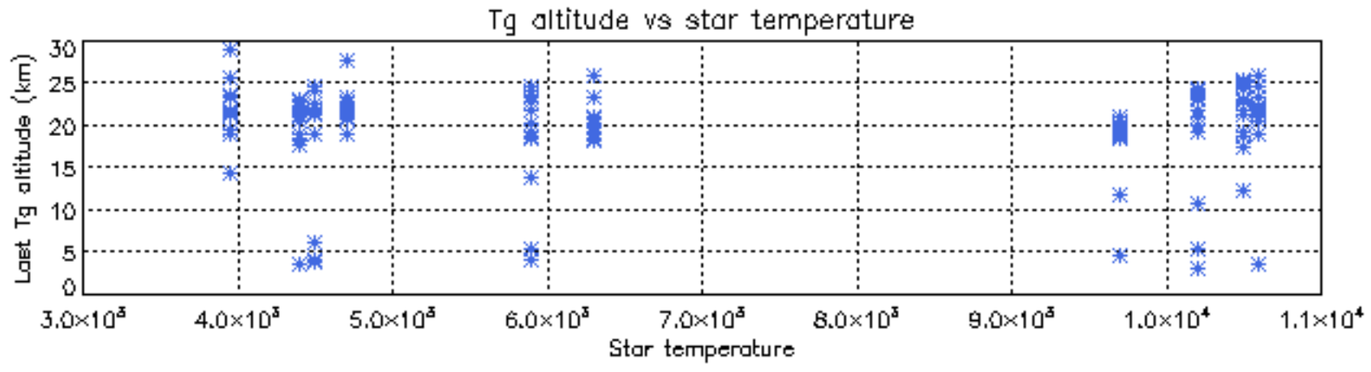



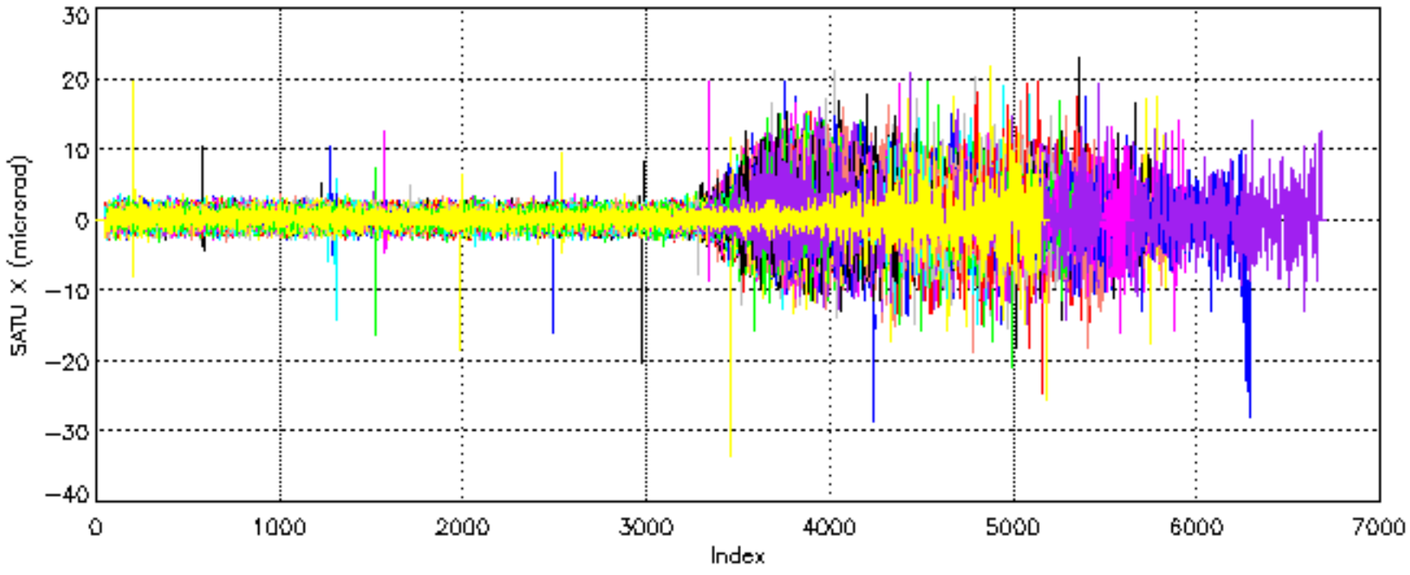



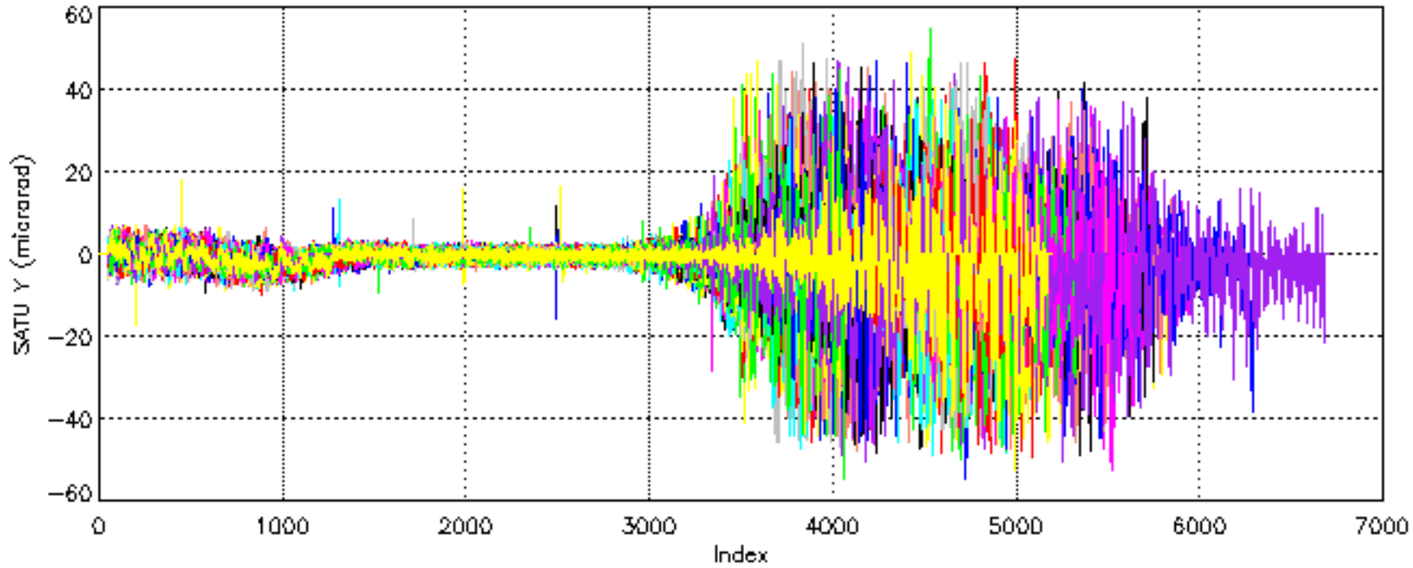
Tangent altitude at which the star is lost

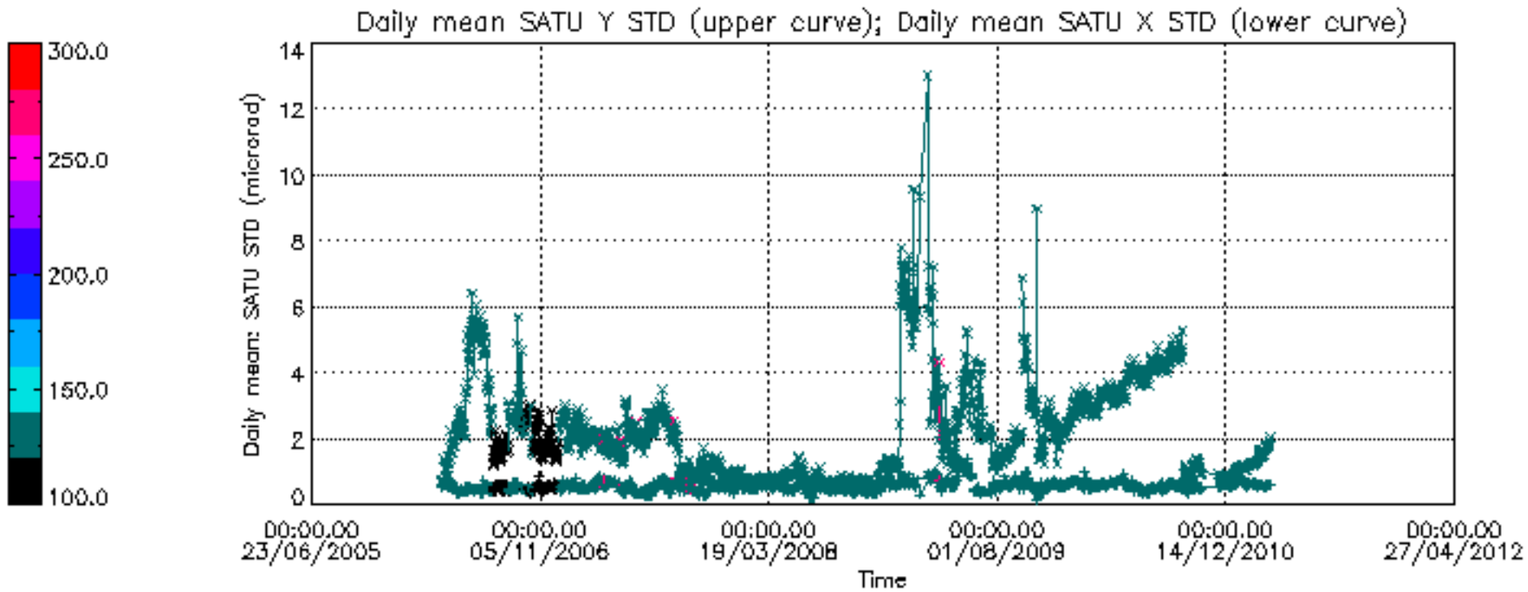



30
20
10
0
−10
−20
−30
−40
SATU X (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


60
40
20
0
−20
−40
−60
S4TU Y (microrad)
0
1000
2000
3000
4000
5000
6000
7000
Index


Daily mean SATU Y STD (upper curve); Daily mean SATU X STD (lower curve)
300.0
250.0
200.0
150.0
100.0
Daily mean: SATU STD (microrad)
14
12
10
8
6
4
2
0
00:00.00 23/06/2005
00:00.00 05/11/2006
00:00.00 19/03/2008
00:00.00 01/08/2009
00:00.00 14/12/2010
00:00.00 27/04/2012
Time

/nas3/ENVISAT/GOMOS/GOM_NL__0P/GOM_NL__0PNPDE20110301_002601_000056703100_00059_47056_2375.N1
1; -498.7; 01-MAR-2011 00:26:01; Dark ; 43.5; 137; 22Lam Sgr ; 2.82; 4400;occ; 87; 0;47056
2; -357.4; 01-MAR-2011 00:28:23; Dark ; 44.5; 38; 20Eps Sgr ; 1.84; 11000;occ; 89; 0;47056
3; -186.9; 01-MAR-2011 00:31:13; Dark ; 46.5; 25; 35Lam Sco ; 1.62; 28000;occ; 93; 0;47056
4; -20.1; 01-MAR-2011 00:34:00; Dark ; 40.0; 16; 21Alp Sco ; 1.02; 3000;occ; 80; 0;47056
5; 293.4; 01-MAR-2011 00:39:14; Dark ; 51.0; 131; Gam Lup ; 2.80; 26000;occ; 102; 0;47057
6; 412.9; 01-MAR-2011 00:41:13; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;47057
7; 507.1; 01-MAR-2011 00:42:47; Dark ; 51.0; 10; Bet Cen ; 0.61; 28000;occ; 102; 0;47057
8; 614.5; 01-MAR-2011 00:44:35; Dark ; 44.0; 77; Eps Cen ; 2.30; 28000;occ; 88; 0;47057
9; 728.8; 01-MAR-2011 00:46:29; Dark ; 40.0; 54; 5The Cen ; 2.06; 4500;occ; 80; 0;47057
10; 807.1; 01-MAR-2011 00:47:47; Dark ; 44.5; 64; Gam Cen ; 2.20; 10600;occ; 89; 0;47057
11; 894.5; 01-MAR-2011 00:49:15; Dark ; 56.5; 123; Iot Cen ; 2.75; 10200;occ; 113; 0;47057
12; 1376.7; 01-MAR-2011 00:57:17; Dark ; 37.0; 171; 2Eps Crv ; 3.00; 4250;occ; 74; 0;47057
13; 2110.2; 01-MAR-2011 01:09:30; Bright; 43.0; 22; 32Alp Leo ; 1.36; 15200;occ; 86; 0;47057
14; 2266.2; 01-MAR-2011 01:12:06; Bright; 45.5; 51; 41Gam1Leo ; 2.01; 4500;occ; 91; 0;47057
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   6;  461.8; 04-MAR-2011 22:15:06; Dark  ;  43.5;    4;   Alp1Cen  ;-0.01;  5800;occ;  87;   0;47113
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  18; 3453.0; 04-MAR-2011 23:04:57; Bright;  42.5;   60;  7Bet UMi  ; 2.08;  3950;occ;  85;   0;47113
  19; 3725.8; 04-MAR-2011 23:09:30; Bright;  44.5;  119; 14Eta Dra  ; 2.73;  4700;occ;  89;   0;47113
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  21; 4194.8; 04-MAR-2011 23:17:19; Bright;  40.5;  144; 18Del Cyg  ; 2.86; 11000;occ;  81;   0;47113
  22; 4321.3; 04-MAR-2011 23:19:26; Bright;  45.5;    5;  3Alp Lyr  ; 0.03; 11000;occ;  91;   0;47113
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  13; 4792.0; 04-MAR-2011 08:25:10; Bright;  42.5;  168; 17Zet Aql  ; 2.99; 11000;occ;  85;   0;47104
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  15; 5688.3; 04-MAR-2011 08:40:07; Dark  ;  46.0;   38; 20Eps Sgr  ; 1.84; 11000;occ;  92;   0;47104
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   7;  836.2; 04-MAR-2011 10:39:42; Dark  ;  45.0;   64;   Gam Cen  ; 2.20; 10600;occ;  90;   0;47106
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  13; 1402.8; 06-MAR-2011 22:57:33; Dark  ;  59.5;  171;  2Eps Crv  ; 3.00;  4250;occ; 119;   0;47142
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  14; 2099.7; 07-MAR-2011 00:49:24; Bright;  41.5;   22; 32Alp Leo  ; 1.36; 15200;occ;  83;   0;47143
  15; 2245.8; 07-MAR-2011 00:51:50; Bright;  41.0;   51; 41Gam1Leo  ; 2.01;  4500;occ;  82;   0;47143
  16; 2749.1; 07-MAR-2011 01:00:13; Bright;  53.0;  174; 52Psi UMa  ; 3.00;  4400;occ; 106;   0;47143
  17; 2927.0; 07-MAR-2011 01:03:11; Bright;  39.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  78;   0;47143
  18; 3011.7; 07-MAR-2011 01:04:36; Bright;  38.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  76;   0;47143
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  13;  480.7; 07-MAR-2011 03:42:53; Dark  ;  44.5;    4;   Alp1Cen  ;-0.01;  5800;occ;  89;   0;47145
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  22; 2748.4; 07-MAR-2011 04:20:41; Bright;  40.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  81;   0;47145
  23; 2926.5; 07-MAR-2011 04:23:39; Bright;  40.5;   82; 48Bet UMa  ; 2.37; 10600;occ;  81;   0;47145
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   9;  680.2; 07-MAR-2011 22:08:46; Dark  ;  43.0;   77;   Eps Cen  ; 2.30; 28000;occ;  86;   0;47156
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  12;  344.4; 10-MAR-2011 05:10:53; Dark  ;  40.5;  134;   Bet TrA  ; 2.81;  6600;occ;  81;   0;47189
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  19; 2236.1; 12-MAR-2011 06:09:10; Bright;  40.0;   51; 41Gam1Leo  ; 2.01;  4500;occ;  80;   0;47218
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   9; 1530.4; 12-MAR-2011 22:39:44; Dark  ;  54.5;  100;  4Gam Crv  ; 2.58; 13100;occ; 109;   0;47228
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  13; 2985.9; 12-MAR-2011 23:04:00; Bright;  40.0;   36; 50Alp UMa  ; 1.80;  6300;occ;  80;   0;47228
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   6; 2886.7; 15-MAR-2011 19:31:54; Bright;  38.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  76;   0;47269
   7; 2975.7; 15-MAR-2011 19:33:23; Bright;  39.5;   36; 50Alp UMa  ; 1.80;  6300;occ;  79;   0;47269
   8; 3069.7; 15-MAR-2011 19:34:57; Bright;  59.5;   32; 77Eps UMa  ; 1.76; 11000;occ; 119;   0;47269

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  25; 3039.1; 25-MAR-2011 06:46:10; Bright;  67.0;   55; 79Zet UMa  ; 2.06; 10200;occ; 134;   0;47405
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  16; 2660.5; 25-MAR-2011 23:22:12; Bright;  38.5;  174; 52Psi UMa  ; 3.00;  4400;occ;  77;   0;47415
  17; 2858.3; 25-MAR-2011 23:25:30; Bright;  36.0;   82; 48Bet UMa  ; 2.37; 10600;occ;  72;   0;47415
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  23; 6047.6; 30-MAR-2011 02:52:25; Dark  ;  54.5;   38; 20Eps Sgr  ; 1.84; 11000;occ; 109;   0;47475
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   4; 1567.8; 31-MAR-2011 21:03:49; Dark  ;  44.5;  100;  4Gam Crv  ; 2.58; 13100;occ;  89;   0;47500
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   6; 1869.9; 31-MAR-2011 21:08:51; Bright;  44.5;  121; 29Gam Vir  ; 2.74;  7200;occ;  89;   0;47500
   7; 2146.9; 31-MAR-2011 21:13:28; Bright;  38.5;   62; 94Bet Leo  ; 2.14;  9700;occ;  77;   0;47500
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  13; 4176.4; 31-MAR-2011 21:47:17; Bright;  59.5;  144; 18Del Cyg  ; 2.86; 11000;occ; 119;   0;47500
  14; 4290.6; 31-MAR-2011 21:49:12; Bright;  45.0;   66; 37Gam Cyg  ; 2.21;  5900;occ;  90;   0;47500
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  11; 4412.1; 31-MAR-2011 11:49:49; Bright;  43.0;   92; 53Eps Cyg  ; 2.50;  4500;occ;  86;   0;47494
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