

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

| Item                                | Value                |
|-------------------------------------|----------------------|
| Report Version                      | GOMEver3_3           |
| Report of Day                       | 24-JUN-2010          |
| Start Time of First Product         | 23-JUN-2010 23:48:03 |
| Stop Time of Last Product           | 23:40:25             |
| Number of EGOI Products analysed    | 33                   |
| Number of corrupted products        | --                   |
| Anomalies and/or Special Operations | Nominal Data         |

### 1.2 - List of received products

| Name                   | Date        | Time         |
|------------------------|-------------|--------------|
| EGOI_100624BEEP3110.E2 | 24-JUN-2010 | 02:01:40.365 |
| EGOI_100624BEEP3120.E2 | 24-JUN-2010 | 03:40:37.967 |
| EGOI_100624GSEP9233.E2 | 24-JUN-2010 | 01:35:52.213 |
| EGOI_100624GSEP9264.E2 | 24-JUN-2010 | 03:14:06.307 |
| EGOI_100624GSEP9273.E2 | 24-JUN-2010 | 04:56:45.935 |
| EGOI_100624KSEP5933.E2 | 24-JUN-2010 | 00:04:27.649 |
| EGOI_100624KSEP5947.E2 | 24-JUN-2010 | 06:55:24.153 |
| EGOI_100624KSEP5965.E2 | 24-JUN-2010 | 08:35:17.264 |
| EGOI_100624KSEP5985.E2 | 24-JUN-2010 | 10:15:01.378 |

|                        |             |              |
|------------------------|-------------|--------------|
| EGOI_100624KSEP6006.E2 | 24-JUN-2010 | 11:54:30.480 |
| EGOI_100624KSEP6034.E2 | 24-JUN-2010 | 13:33:26.586 |
| EGOI_100624KSEP6044.E2 | 24-JUN-2010 | 15:12:09.190 |
| EGOI_100624KSEP6071.E2 | 24-JUN-2010 | 16:49:37.710 |
| EGOI_100624KSEP6102.E2 | 24-JUN-2010 | 18:27:30.809 |
| EGOI_100624KSEP6134.E2 | 24-JUN-2010 | 20:06:16.408 |
| EGOI_100624KSEP6163.E2 | 24-JUN-2010 | 21:47:20.027 |
| EGOI_100624KSEP6180.E2 | 24-JUN-2010 | 23:30:40.160 |
| EGOI_100624MAEP3677.E2 | 24-JUN-2010 | 08:43:27.815 |
| EGOI_100624MAEP3689.E2 | 24-JUN-2010 | 10:22:26.921 |
| EGOI_100624MAEP3709.E2 | 24-JUN-2010 | 19:59:49.373 |
| EGOI_100624MMEP0129.E2 | 24-JUN-2010 | 11:03:00.164 |
| EGOI_100624MMEP0136.E2 | 24-JUN-2010 | 12:42:54.774 |
| EGOI_100624MMEP0148.E2 | 24-JUN-2010 | 21:00:10.738 |
| EGOI_100624MMEP0157.E2 | 24-JUN-2010 | 22:40:18.848 |
| EGOI_100624MSEP0013.E2 | 24-JUN-2010 | 10:29:23.964 |
| EGOI_100624MSEP0042.E2 | 24-JUN-2010 | 12:07:24.559 |
| EGOI_100624MSEP0067.E2 | 24-JUN-2010 | 21:39:40.984 |
| EGOI_100624MSEP0096.E2 | 24-JUN-2010 | 23:16:23.567 |
| EGOI_100624MSEP9990.E2 | 23-JUN-2010 | 23:48:03.552 |
| EGOI_100624SGEP6547.E2 | 24-JUN-2010 | 02:19:38.975 |
| EGOI_100624SGEP6553.E2 | 24-JUN-2010 | 04:00:29.088 |
| EGOI_100624SGEP6560.E2 | 24-JUN-2010 | 14:49:28.549 |
| EGOI_100624SGEP6566.E2 | 24-JUN-2010 | 16:27:19.572 |

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### 1.3 - List of data gaps

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS      | 79343 | 24-JUN-2010 | 00:03:26.997 | 00:04:27.648 | 60.651000    |
| KS      | 79347 | 24-JUN-2010 | 06:54:16.629 | 06:55:24.153 | 67.524000    |
| KS      | 79348 | 24-JUN-2010 | 08:33:40.964 | 08:35:17.264 | 96.300000    |
| KS      | 79349 | 24-JUN-2010 | 10:13:18.639 | 10:15:01.377 | 102.73800    |
| KS      | 79350 | 24-JUN-2010 | 11:52:47.255 | 11:54:30.480 | 103.22500    |
| KS      | 79351 | 24-JUN-2010 | 13:31:48.752 | 13:33:26.586 | 97.834000    |
| KS      | 79352 | 24-JUN-2010 | 15:10:13.451 | 15:12:09.190 | 115.73900    |
| KS      | 79353 | 24-JUN-2010 | 16:47:50.070 | 16:49:37.709 | 107.63900    |
| KS      | 79354 | 24-JUN-2010 | 18:25:49.994 | 18:27:30.809 | 100.81500    |
| KS      | 79355 | 24-JUN-2010 | 20:05:02.627 | 20:06:16.407 | 73.780000    |
| KS      | 79356 | 24-JUN-2010 | 21:46:08.056 | 21:47:20.026 | 71.970000    |
| GS      | 79344 | 24-JUN-2010 | 01:34:36.103 | 01:35:52.213 | 76.110000    |
| GS      | 79345 | 24-JUN-2010 | 03:12:41.414 | 03:14:06.306 | 84.892000    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 79349 | 24-JUN-2010 | 10:27:38.212 | 10:29:23.963 | 105.75100 |
| MS | 79350 | 24-JUN-2010 | 12:05:46.931 | 12:07:24.558 | 97.627000 |
| MS | 79357 | 24-JUN-2010 | 23:14:55.091 | 23:16:23.567 | 88.476000 |
| MS | 79343 | 23-JUN-2010 | 23:46:33.576 | 23:48:03.552 | 89.976000 |
| MA | 79349 | 24-JUN-2010 | 10:21:21.999 | 10:22:26.921 | 64.922000 |
| MA | 79355 | 24-JUN-2010 | 19:58:05.952 | 19:59:49.372 | 103.42000 |
| MM | 79355 | 24-JUN-2010 | 20:59:10.670 | 21:00:10.737 | 60.067000 |
| BE | 79344 | 24-JUN-2010 | 01:59:48.572 | 02:01:40.365 | 111.79300 |
| BE | 79345 | 24-JUN-2010 | 03:38:46.250 | 03:40:37.967 | 111.71700 |
| SG | 79344 | 24-JUN-2010 | 02:12:47.314 | 02:19:38.974 | 411.66000 |
| SG | 79345 | 24-JUN-2010 | 03:49:43.232 | 04:00:29.087 | 645.85500 |
| SG | 79351 | 24-JUN-2010 | 14:45:43.138 | 14:49:28.548 | 225.41000 |
| SG | 79352 | 24-JUN-2010 | 16:25:28.549 | 16:27:19.571 | 111.02200 |

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#### 1.4 - List of missing products

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO      | 79343 | 24-JUN-2010 | 00:40:48.127 | 00:54:59.713 | 851.58600    |
| MM      | 79343 | 24-JUN-2010 | 00:52:36.327 | 01:03:14.731 | 638.40400    |
| MM      | 79344 | 24-JUN-2010 | 02:35:10.545 | 02:43:37.592 | 507.04700    |
| MM      | 79345 | 24-JUN-2010 | 04:18:15.990 | 04:24:32.333 | 376.34300    |
| MI      | 79345 | 24-JUN-2010 | 03:07:53.181 | 03:21:02.539 | 789.35800    |
| CM      | 79345 | 24-JUN-2010 | 03:08:07.777 | 03:18:10.882 | 603.10500    |
| CM      | 79345 | 24-JUN-2010 | 04:46:36.454 | 04:57:51.963 | 675.50900    |
| MM      | 79346 | 24-JUN-2010 | 06:00:37.770 | 06:06:38.695 | 360.92500    |
| MI      | 79346 | 24-JUN-2010 | 04:49:23.755 | 04:58:34.885 | 551.13000    |
| MM      | 79347 | 24-JUN-2010 | 07:41:42.553 | 07:49:42.570 | 480.01700    |
| JO      | 79347 | 24-JUN-2010 | 07:19:54.516 | 07:33:24.722 | 810.20600    |
| MM      | 79348 | 24-JUN-2010 | 09:22:09.211 | 09:32:26.032 | 616.82100    |
| JO      | 79348 | 24-JUN-2010 | 08:58:44.869 | 09:12:51.855 | 846.98600    |
| HO      | 79351 | 24-JUN-2010 | 14:31:02.245 | 14:42:51.052 | 708.80700    |
| MM      | 79351 | 24-JUN-2010 | 14:21:55.704 | 14:34:38.971 | 763.26700    |
| SG      | 79351 | 24-JUN-2010 | 14:45:43.138 | 14:58:30.022 | 766.88400    |
| BE      | 79352 | 24-JUN-2010 | 14:55:51.337 | 15:08:21.189 | 749.85200    |
| MM      | 79352 | 24-JUN-2010 | 16:01:20.728 | 16:13:55.597 | 754.86900    |
| MI      | 79352 | 24-JUN-2010 | 15:28:07.078 | 15:40:58.778 | 771.70000    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| GS | 79352 | 24-JUN-2010 | 15:22:04.840 | 15:35:37.795 | 812.95500 |
| CM | 79352 | 24-JUN-2010 | 15:31:46.188 | 15:41:55.447 | 609.25900 |
| MM | 79353 | 24-JUN-2010 | 17:40:31.898 | 17:53:03.861 | 751.96300 |
| MI | 79353 | 24-JUN-2010 | 17:08:12.216 | 17:18:52.911 | 640.69500 |
| GS | 79353 | 24-JUN-2010 | 17:01:41.776 | 17:14:24.186 | 762.41000 |
| CM | 79353 | 24-JUN-2010 | 17:10:28.924 | 17:21:37.724 | 668.80000 |
| MM | 79354 | 24-JUN-2010 | 19:19:41.357 | 19:32:20.953 | 759.59600 |
| JO | 79354 | 24-JUN-2010 | 19:39:58.245 | 19:52:38.373 | 760.12800 |
| JO | 79355 | 24-JUN-2010 | 21:18:27.073 | 21:32:58.334 | 871.26100 |
| HO | 79356 | 24-JUN-2010 | 22:31:35.753 | 22:43:58.985 | 743.23200 |
| MA | 79356 | 24-JUN-2010 | 21:37:41.034 | 21:50:26.397 | 765.36300 |

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## 1.5 - List of corrupted products

| Station | Orbit | Time |
|---------|-------|------|
|---------|-------|------|

## 2 - Instrument Indicators and Daily Plots

### 2.1 - Instrument Indicators Status

| Indicator                            | Value |
|--------------------------------------|-------|
| MPH Product Confidence               | OK    |
| SPH Product Confidence               | OK    |
| Command Word Echo Summary            | OK    |
| Instrument Status 1A                 | OK    |
| Instrument Status 1B                 | OK    |
| Instrument Status 2                  | OK    |
| Integration Times Channel 1          | OK    |
| Co-Adding and Cluster Mode Flags     | OK    |
| Integration Times Band 2A            | OK    |
| Integration Times Band 2B            | OK    |
| Integration Times Band 3             | OK    |
| Integration Times Band 4             | OK    |
| Scan Mirror position                 | OK    |
| Polarization Detectors               | OK    |
| FPA Temperatures A                   | OK    |
| FPA Temperaturas B                   | OK    |
| Charge Amp Temperatures              | OK    |
| Other Temperatures A                 | OK    |
| DDHU Temperatures                    | OK    |
| Optical Bench Temperatures           | OK    |
| Other Temperatures B                 | OK    |
| Calibration Lamp and Instr. Status 3 | OK    |
| Scan Mirror and Motor Current        | OK    |
| Selected Temperature A               | OK    |

|                              |    |
|------------------------------|----|
| Selected Temperature B       | OK |
| Selected Temperature C       | OK |
| Channel 1 Summation          | OK |
| Channel 2 Summation          | OK |
| Channel 4 Summation          | OK |
| Log Pages                    | OK |
| 331/338 nm Uncal. Line Ratio | OK |
| Uncal. PMDs as RGB signal    | OK |
| 780 nm Uncal. Intensity      | OK |

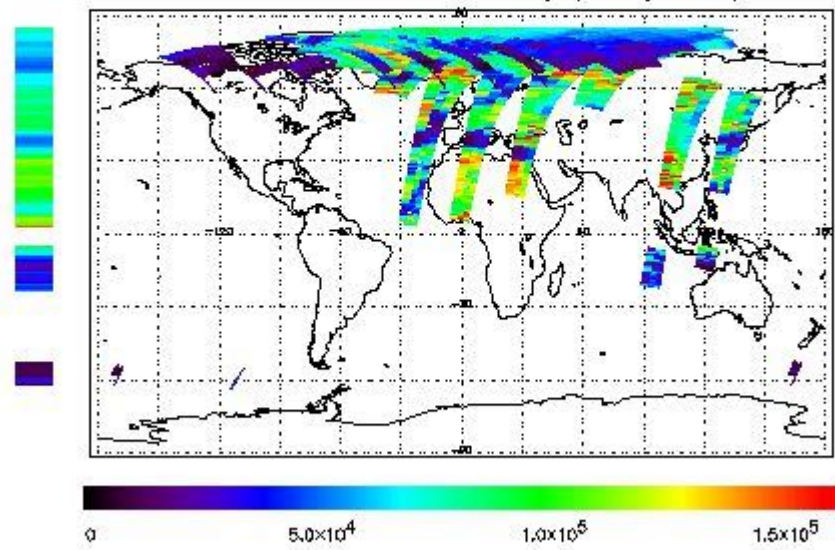
## 2.2 - Daily Plots

The images linked below provide a quick check on the data coverage and instrument performance. All data are UNCALIBRATED. For the explanation see the [GOME Performance Legend](#)

### NEAR IR Intensity

First Product : 23-JUN-2010 23:48:03.552 : ORBIT : 79343.0096  
 Last Product : 24-JUN-2010 23:40:25.214 : ORBIT : 79357.2480  
 Total Products Processed : 15822 Day : 175 Page : 21

778 nm Uncalibrated Intensity (Binary Units)

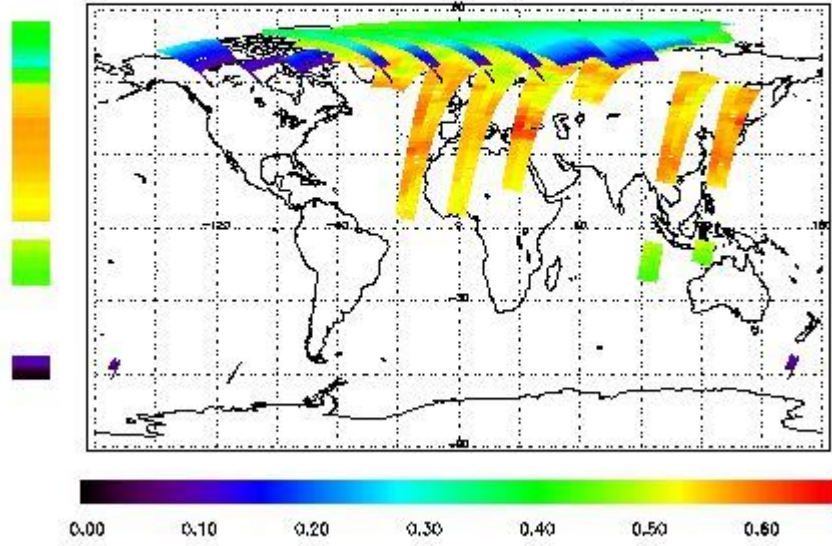


### Ozone Line Ratio

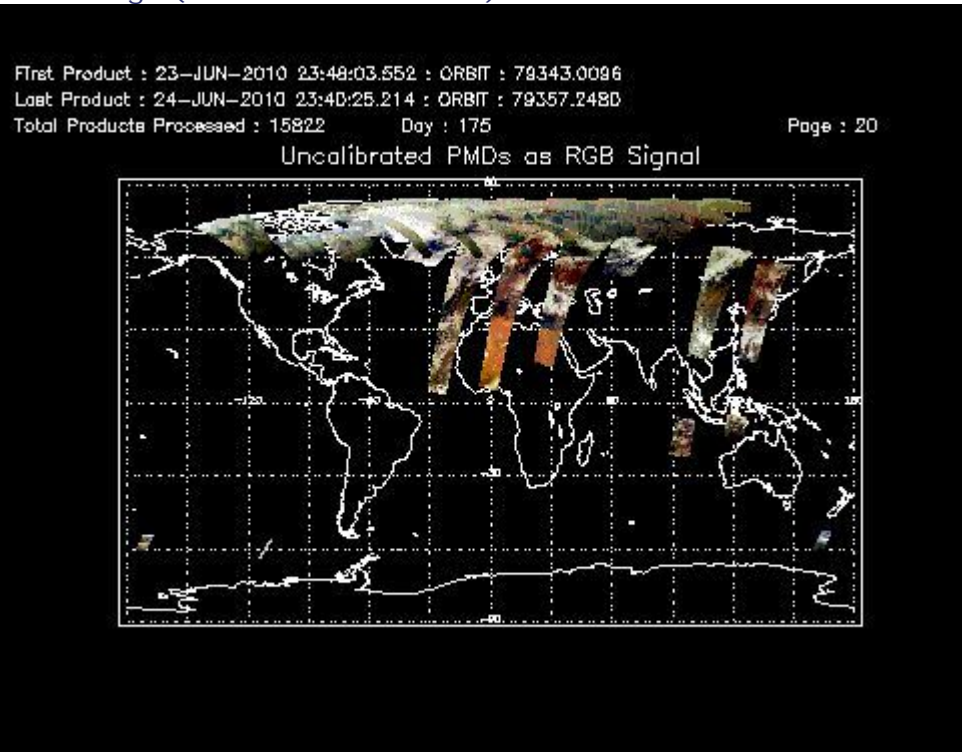
First Product : 23-JUN-2010 23:48:03.552 : ORBIT : 79343.0096  
 Last Product : 24-JUN-2010 23:40:25.214 : ORBIT : 79357.2480  
 Total Products Processed : 15822 Day : 175

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331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)



### 3 - Instrument Calibration

#### 3.1 - Solar Calibration (Daily/TST44)

| Daily(D)/TST44(T) | Start Time | End Time (T) | Orbit | Ground Station Visibility | Warm Detector Temperature (TST/44) | Max PMD Readout during solar calibration (BU set 2/12) |
|-------------------|------------|--------------|-------|---------------------------|------------------------------------|--|
| D                 | 16:49:49   | --           | 79353 | Yes                       | --                                 | 14722  |

#### 3.2 - Lamp Calibration (Quarterly/TST44)

| Quarterly(Q)/TST44(T) | Start Time | End Time | Orbit | Ground Station Visibility | Warm Detector Temperature (TST/44) | Lamp Instability Voltage (if any) (V) | Lamp Failure N. (if any) |
|-----------------------|------------|----------|-------|---------------------------|------------------------------------|---------------------------------------|--------------------------|
| --                    | --         | --       | --    | --                        | --                                 | --                                    | --                       |

## 4 - Instrument Anomalies

### 4.1 - Single Event Upset (SEU)

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| --         | --       | --          | --        | --                        |

### 4.2 - Instrument Off

| Start Time | End Time | Start Orbit | End Orbit | MPS Resumption | Ground Station Visibility |
|------------|----------|-------------|-----------|----------------|---------------------------|
| --         | --       | --          | --        | --             | --                        |

### 4.3 - Cooler Switchings

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility | Max Temp. Ch 1 | Max Temp. Ch 2 | Max Temp. Ch 3 | Max Temp. Ch 4 |
|------------|----------|-------------|-----------|---------------------------|----------------|----------------|----------------|----------------|
| --         | --       | --          | --        | --                        | --             | --             | --             | --             |

## 5 - Instrument Operations

### Additional Info

### 5.1 - Timeline Interruptions

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| --         | --       | --          | --        | --                        |

### 5.2 - TST44

| Start Time | Start Orbit | Ground Station Visibility |
|------------|-------------|---------------------------|
| --         | --          | --                        |

### 5.3 - Power Cycle

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| --         | --       | --          | --        | --                        |

### 5.4 - Wrong Command Execution

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility |
|------------|----------|-------------|-----------|---------------------------|
| --         | --       | --          | --        | --                        |

### 5.5 - Narrow Swath Timeline

| Start Time | End Time | Start Orbit | End Orbit |
|------------|----------|-------------|-----------|
| --         | --       | --          | --        |

## 5.6 - Seasonal Operations

| Start Time | End Time | Start Orbit | End Orbit |
|------------|----------|-------------|-----------|
| --         | --       | --          | --        |

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(1) The Solar/lamp calibration is carried out routinely or after an instrument switch-off or a power cycle (performed to reset the instrument when abnormal values are observed); in the latter cases the coolers are off and the temperature refers to the warm detectors