

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

| Item                                | Value             |
|-------------------------------------|-------------------|
| Report Version                      | GOMEver3_3        |
| Report of Day                       | 12-Sep-2010       |
| Start Time of First Product         | 23:49:19 (11-Sep) |
| Stop Time of Last Product           | 23:26:44          |
| Number of EGOI Products analysed    | 44                |
| Number of corrupted products        | --                |
| Anomalies and/or Special Operations | Nominal Data      |

### 1.2 - List of received products

| Name                   | Date        | Time         |
|------------------------|-------------|--------------|
| EGOI_100912GSEP4812.E2 | 12-SEP-2010 | 01:22:37.642 |
| EGOI_100912GSEP4840.E2 | 12-SEP-2010 | 02:59:59.232 |
| EGOI_100912GSEP4862.E2 | 12-SEP-2010 | 04:42:25.357 |
| EGOI_100912GSEP4868.E2 | 12-SEP-2010 | 06:24:18.480 |
| EGOI_100912HLEP7657.E2 | 12-SEP-2010 | 00:30:14.822 |
| EGOI_100912HLEP7671.E2 | 12-SEP-2010 | 22:20:10.804 |
| EGOI_100912KSEP4941.E2 | 11-SEP-2010 | 23:49:19.071 |
| EGOI_100912KSEP4954.E2 | 12-SEP-2010 | 06:41:39.580 |
| EGOI_100912KSEP4970.E2 | 12-SEP-2010 | 08:21:37.199 |

|                        |             |              |
|------------------------|-------------|--------------|
| EGOI_100912KSEP4992.E2 | 12-SEP-2010 | 10:01:15.302 |
| EGOI_100912KSEP5013.E2 | 12-SEP-2010 | 11:40:51.908 |
| EGOI_100912KSEP5030.E2 | 12-SEP-2010 | 13:19:52.515 |
| EGOI_100912KSEP5051.E2 | 12-SEP-2010 | 14:58:33.614 |
| EGOI_100912KSEP5079.E2 | 12-SEP-2010 | 16:36:11.713 |
| EGOI_100912KSEP5109.E2 | 12-SEP-2010 | 18:14:09.304 |
| EGOI_100912KSEP5134.E2 | 12-SEP-2010 | 19:52:35.411 |
| EGOI_100912KSEP5155.E2 | 12-SEP-2010 | 21:33:19.525 |
| EGOI_100912KSEP5173.E2 | 12-SEP-2010 | 23:16:17.148 |
| EGOI_100912MAEP6980.E2 | 12-SEP-2010 | 08:30:01.236 |
| EGOI_100912MAEP6992.E2 | 12-SEP-2010 | 10:08:42.345 |
| EGOI_100912MAEP7009.E2 | 12-SEP-2010 | 21:25:26.969 |
| EGOI_100912MIEP0589.E2 | 12-SEP-2010 | 02:55:57.709 |
| EGOI_100912MIEP0606.E2 | 12-SEP-2010 | 04:36:20.818 |
| EGOI_100912MIEP0629.E2 | 12-SEP-2010 | 15:16:14.223 |
| EGOI_100912MIEP0647.E2 | 12-SEP-2010 | 16:55:43.327 |
| EGOI_100912MMEP4852.E2 | 12-SEP-2010 | 04:04:08.623 |
| EGOI_100912MMEP4859.E2 | 12-SEP-2010 | 05:46:27.244 |
| EGOI_100912MMEP4866.E2 | 12-SEP-2010 | 07:28:09.865 |
| EGOI_100912MMEP4873.E2 | 12-SEP-2010 | 09:10:01.489 |
| EGOI_100912MMEP4881.E2 | 12-SEP-2010 | 10:49:18.592 |
| EGOI_100912MMEP4887.E2 | 12-SEP-2010 | 12:29:13.205 |
| EGOI_100912MMEP4898.E2 | 12-SEP-2010 | 14:09:55.817 |
| EGOI_100912MMEP4905.E2 | 12-SEP-2010 | 15:48:26.420 |
| EGOI_100912MMEP4912.E2 | 12-SEP-2010 | 20:46:29.732 |
| EGOI_100912MMEP4921.E2 | 12-SEP-2010 | 22:26:40.842 |
| EGOI_100912MSEP9202.E2 | 12-SEP-2010 | 10:16:13.892 |
| EGOI_100912MSEP9232.E2 | 12-SEP-2010 | 11:53:45.987 |
| EGOI_100912MSEP9252.E2 | 12-SEP-2010 | 13:35:45.110 |
| EGOI_100912MSEP9269.E2 | 12-SEP-2010 | 21:27:07.482 |
| EGOI_100912MSEP9301.E2 | 12-SEP-2010 | 23:02:08.062 |
| EGOI_100912SGEP8098.E2 | 12-SEP-2010 | 02:03:18.389 |
| EGOI_100912SGEP8104.E2 | 12-SEP-2010 | 03:37:38.463 |
| EGOI_100912SGEP8111.E2 | 12-SEP-2010 | 14:34:51.470 |
| EGOI_100912SGEP8117.E2 | 12-SEP-2010 | 16:13:25.069 |

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### 1.3 - List of data gaps

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS      | 80492 | 12-SEP-2010 | 06:40:08.955 | 06:41:39.580 | 90.625000    |
| KS      | 80493 | 12-SEP-2010 | 08:19:27.322 | 08:21:37.199 | 129.87700    |
| KS      | 80494 | 12-SEP-2010 | 09:59:04.848 | 10:01:15.302 | 130.45400    |
| KS      | 80495 | 12-SEP-2010 | 11:38:35.798 | 11:40:51.908 | 136.11000    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| KS | 80496 | 12-SEP-2010 | 13:17:42.388 | 13:19:52.515 | 130.12700 |
| KS | 80497 | 12-SEP-2010 | 14:56:18.664 | 14:58:33.613 | 134.94900 |
| KS | 80498 | 12-SEP-2010 | 16:33:56.001 | 16:36:11.712 | 135.71100 |
| KS | 80499 | 12-SEP-2010 | 18:11:46.610 | 18:14:09.304 | 142.69400 |
| KS | 80500 | 12-SEP-2010 | 19:50:46.202 | 19:52:35.410 | 109.20800 |
| KS | 80501 | 12-SEP-2010 | 21:31:33.209 | 21:33:19.524 | 106.31500 |
| KS | 80502 | 12-SEP-2010 | 23:14:51.150 | 23:16:17.147 | 85.997000 |
| GS | 80489 | 12-SEP-2010 | 01:20:57.678 | 01:22:37.641 | 99.963000 |
| GS | 80490 | 12-SEP-2010 | 02:58:24.575 | 02:59:59.232 | 94.657000 |
| GS | 80491 | 12-SEP-2010 | 04:40:49.141 | 04:42:25.356 | 96.215000 |
| MS | 80494 | 12-SEP-2010 | 10:14:00.795 | 10:16:13.892 | 133.09700 |
| MS | 80495 | 12-SEP-2010 | 11:51:27.500 | 11:53:45.986 | 138.48600 |
| MS | 80502 | 12-SEP-2010 | 23:00:44.421 | 23:02:08.061 | 83.640000 |
| MA | 80493 | 12-SEP-2010 | 08:28:21.459 | 08:30:01.236 | 99.777000 |
| MA | 80494 | 12-SEP-2010 | 10:07:08.311 | 10:08:42.344 | 94.033000 |
| MA | 80501 | 12-SEP-2010 | 21:23:11.243 | 21:25:26.968 | 135.72500 |
| MI | 80490 | 12-SEP-2010 | 02:53:58.187 | 02:55:57.709 | 119.52200 |
| MI | 80491 | 12-SEP-2010 | 04:34:18.598 | 04:36:20.817 | 122.21900 |
| MI | 80497 | 12-SEP-2010 | 15:14:12.352 | 15:16:14.223 | 121.87100 |
| MI | 80498 | 12-SEP-2010 | 16:53:36.222 | 16:55:43.327 | 127.10500 |
| MM | 80493 | 12-SEP-2010 | 09:07:49.542 | 09:10:01.489 | 131.94700 |
| MM | 80494 | 12-SEP-2010 | 10:48:00.881 | 10:49:18.591 | 77.710000 |
| MM | 80495 | 12-SEP-2010 | 12:27:58.708 | 12:29:13.204 | 74.496000 |
| MM | 80496 | 12-SEP-2010 | 14:07:42.204 | 14:09:55.816 | 133.61200 |
| MM | 80497 | 12-SEP-2010 | 15:47:09.572 | 15:48:26.420 | 76.848000 |
| MM | 80500 | 12-SEP-2010 | 20:44:55.781 | 20:46:29.732 | 93.951000 |
| MM | 80501 | 12-SEP-2010 | 22:25:00.577 | 22:26:40.842 | 100.26500 |
| SG | 80490 | 12-SEP-2010 | 03:35:25.384 | 03:37:38.462 | 133.07800 |
| SG | 80496 | 12-SEP-2010 | 14:32:04.161 | 14:34:51.469 | 167.30800 |
| SG | 80497 | 12-SEP-2010 | 16:10:46.515 | 16:13:25.069 | 158.55400 |

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#### 1.4 - List of missing products

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO      | 80488 | 12-SEP-2010 | 00:26:14.534 | 00:40:52.436 | 877.90200    |
| MM      | 80488 | 12-SEP-2010 | 00:38:01.977 | 00:48:55.774 | 653.79700    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| BE | 80489 | 12-SEP-2010 | 01:45:58.004 | 01:56:45.764 | 647.76000 |
| MM | 80489 | 12-SEP-2010 | 02:20:28.259 | 02:29:15.853 | 527.59400 |
| BE | 80490 | 12-SEP-2010 | 03:24:28.807 | 03:37:42.076 | 793.26900 |
| CM | 80490 | 12-SEP-2010 | 02:54:50.712 | 03:03:19.577 | 508.86500 |
| CM | 80490 | 12-SEP-2010 | 04:32:03.571 | 04:44:00.163 | 716.59200 |
| JO | 80492 | 12-SEP-2010 | 07:06:18.731 | 07:18:53.029 | 754.29800 |
| JO | 80493 | 12-SEP-2010 | 08:44:15.558 | 08:58:53.513 | 877.95500 |
| MA | 80495 | 12-SEP-2010 | 11:48:56.297 | 11:54:34.572 | 338.27500 |
| HO | 80496 | 12-SEP-2010 | 14:16:36.883 | 14:29:24.323 | 767.44000 |
| SG | 80496 | 12-SEP-2010 | 14:32:04.161 | 14:43:51.539 | 707.37800 |
| BE | 80497 | 12-SEP-2010 | 14:41:20.452 | 14:54:19.237 | 778.78500 |
| GS | 80497 | 12-SEP-2010 | 15:07:59.746 | 15:21:08.562 | 788.81600 |
| CM | 80497 | 12-SEP-2010 | 15:18:21.655 | 15:26:52.079 | 510.42400 |
| MM | 80498 | 12-SEP-2010 | 17:26:22.237 | 17:38:53.858 | 751.62100 |
| GS | 80498 | 12-SEP-2010 | 16:47:22.317 | 17:00:33.618 | 791.30100 |
| CM | 80498 | 12-SEP-2010 | 16:56:00.557 | 17:07:51.869 | 711.31200 |
| MM | 80499 | 12-SEP-2010 | 19:05:30.786 | 19:18:09.031 | 758.24500 |
| JO | 80499 | 12-SEP-2010 | 19:26:22.093 | 19:37:40.452 | 678.35900 |
| MA | 80500 | 12-SEP-2010 | 19:44:18.178 | 19:56:44.565 | 746.38700 |
| JO | 80500 | 12-SEP-2010 | 21:04:08.738 | 21:19:00.573 | 891.83500 |
| HO | 80501 | 12-SEP-2010 | 22:18:01.541 | 22:29:37.368 | 695.82700 |
| JO | 80501 | 12-SEP-2010 | 22:46:48.378 | 22:53:00.621 | 372.24300 |
| HO | 80502 | 12-SEP-2010 | 23:55:08.670 | 00:09:38.962 | 870.29200 |

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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 |

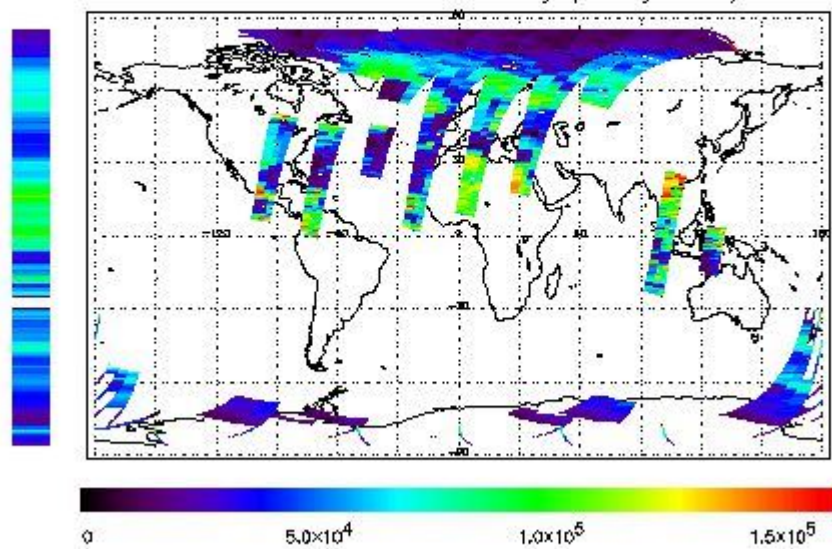
## 2.2 - Daily Plots

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 : 11-SEP-2010 23:49:19.071 : ORBIT : 80488.1650  
 Last Product : 12-SEP-2010 23:26:44.210 : ORBIT : 80502.2548  
 Total Products Processed : 20760 Day : 255 Page : 21

778 nm Uncalibrated Intensity (Binary Units)



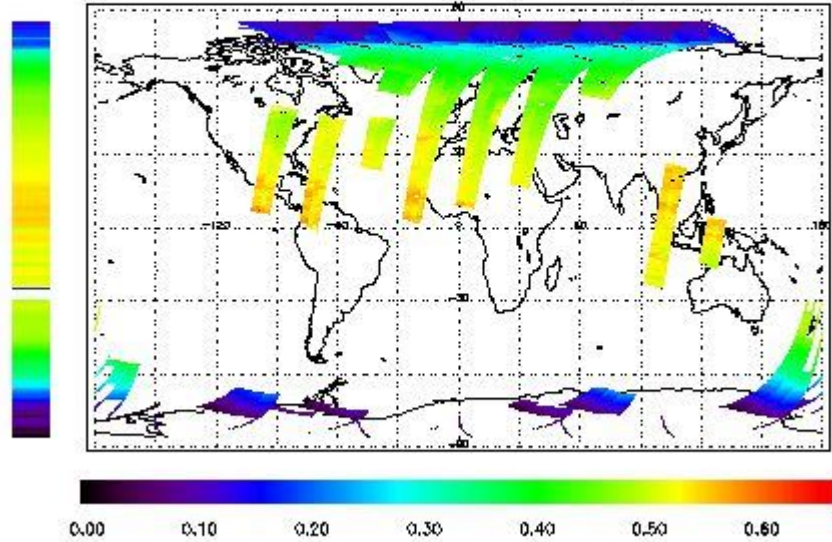
### Ozone Line Ratio



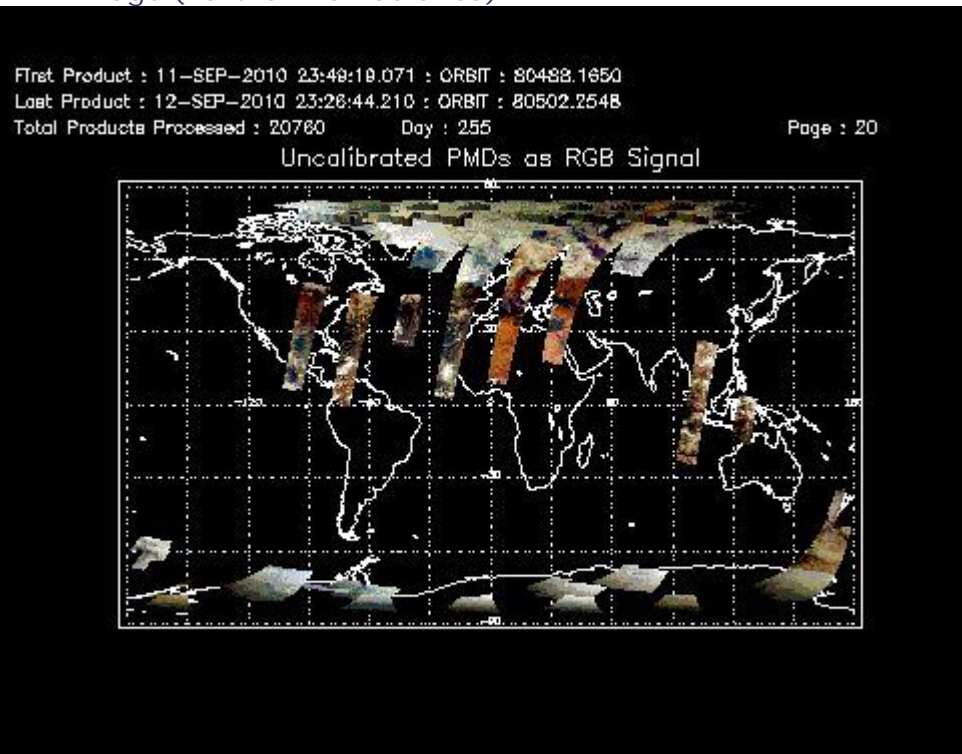
First Product : 11-SEP-2010 23:49:10.071 : ORBIT : 80488.1650  
 Last Product : 12-SEP-2010 23:26:44.210 : ORBIT : 80502.2548  
 Total Products Processed : 20760 Day : 255

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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                 | 18:21:24.346 | --           | 80499 | Yes                       | --                                 | 15010  |

#### 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) |
|-----------------------|------------|----------|-------|---------------------------|------------------------------------|---------------------------------------|--------------------------|
| --                    | --         | --       | --    | --                        | --                                 | --                                    | --                       |

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## 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 |
|------------|----------|-------------|-----------|---------------------------|----------------|----------------|----------------|----------------|
| --         | --       | --          | --        | --                        | --             | --             | --             | --             |

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## 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 |
|------------|----------|-------------|-----------|
| 01:00      | --       | 80388       | --        |

## 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