

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

| Item                                | Value  |
|-------------------------------------|--|
| Report Version                      | GOMEver3_3   |
| Report of Day                       | 04-DEC-2010  |
| Start Time of First Product         | 00:36:00   |
| Stop Time of Last Product           | 22:47:20   |
| Number of EGOI Products analysed    | 27   |
| Number of corrupted products        | --   |
| Anomalies and/or Special Operations | <span style="color: red;">Narrow Swath continued from previous day, stop orbit: 81696</span> |

### 1.2 - List of received products

| Name                   | Date        | Time         |
|------------------------|-------------|--------------|
| EGOI_101205CMEP2342.E2 | 05-DEC-2010 | 03:56:26.500 |
| EGOI_101205CMEP2349.E2 | 05-DEC-2010 | 05:35:57.119 |
| EGOI_101205GSEP0554.E2 | 05-DEC-2010 | 02:21:09.417 |
| EGOI_101205GSEP0578.E2 | 05-DEC-2010 | 04:01:10.032 |
| EGOI_101205GSEP0586.E2 | 05-DEC-2010 | 05:43:40.673 |
| EGOI_101205KSEP5320.E2 | 05-DEC-2010 | 07:41:42.897 |
| EGOI_101205KSEP5346.E2 | 05-DEC-2010 | 09:21:46.517 |
| EGOI_101205KSEP5370.E2 | 05-DEC-2010 | 11:01:24.633 |
| EGOI_101205KSEP5394.E2 | 05-DEC-2010 | 12:40:41.749 |

|                        |             |              |
|------------------------|-------------|--------------|
| EGOI_101205KSEP5408.E2 | 05-DEC-2010 | 14:19:36.364 |
| EGOI_101205KSEP5434.E2 | 05-DEC-2010 | 15:57:29.467 |
| EGOI_101205KSEP5461.E2 | 05-DEC-2010 | 17:35:21.074 |
| EGOI_101205KSEP5492.E2 | 05-DEC-2010 | 19:13:08.181 |
| EGOI_101205KSEP5518.E2 | 05-DEC-2010 | 20:53:02.796 |
| EGOI_101205KSEP5546.E2 | 05-DEC-2010 | 22:35:06.430 |
| EGOI_101205MAEP0467.E2 | 05-DEC-2010 | 09:29:31.563 |
| EGOI_101205MAEP0476.E2 | 05-DEC-2010 | 11:09:02.180 |
| EGOI_101205MAEP0494.E2 | 05-DEC-2010 | 20:45:23.749 |
| EGOI_101205MAEP0511.E2 | 05-DEC-2010 | 22:27:24.383 |
| EGOI_101205MIEP6999.E2 | 05-DEC-2010 | 02:18:13.897 |
| EGOI_101205MIEP7012.E2 | 05-DEC-2010 | 03:56:25.000 |
| EGOI_101205MSEP8873.E2 | 05-DEC-2010 | 00:35:59.762 |
| EGOI_101205MSEP8894.E2 | 05-DEC-2010 | 11:14:30.717 |
| EGOI_101205MSEP8919.E2 | 05-DEC-2010 | 12:54:28.336 |
| EGOI_101205MSEP8945.E2 | 05-DEC-2010 | 22:23:52.860 |
| EGOI_101205SGEP9928.E2 | 05-DEC-2010 | 03:08:47.207 |
| EGOI_101205SGEP9936.E2 | 05-DEC-2010 | 04:47:07.313 |

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### 1.3 - List of data gaps

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS      | 81695 | 05-DEC-2010 | 07:39:39.030 | 07:41:42.896 | 123.86600    |
| KS      | 81696 | 05-DEC-2010 | 09:19:13.656 | 09:21:46.516 | 152.86000    |
| KS      | 81697 | 05-DEC-2010 | 10:58:49.288 | 11:01:24.632 | 155.34400    |
| KS      | 81698 | 05-DEC-2010 | 12:38:07.945 | 12:40:41.748 | 153.80300    |
| KS      | 81699 | 05-DEC-2010 | 14:16:58.794 | 14:19:36.363 | 157.56900    |
| KS      | 81700 | 05-DEC-2010 | 15:54:48.261 | 15:57:29.467 | 161.20600    |
| KS      | 81701 | 05-DEC-2010 | 17:32:42.985 | 17:35:21.074 | 158.08900    |
| KS      | 81702 | 05-DEC-2010 | 19:10:59.561 | 19:13:08.180 | 128.61900    |
| KS      | 81703 | 05-DEC-2010 | 20:50:59.153 | 20:53:02.796 | 123.64300    |
| KS      | 81704 | 05-DEC-2010 | 22:33:09.669 | 22:35:06.429 | 116.76000    |
| GS      | 81692 | 05-DEC-2010 | 02:19:53.496 | 02:21:09.416 | 75.920000    |
| GS      | 81693 | 05-DEC-2010 | 03:59:04.244 | 04:01:10.031 | 125.78700    |
| MS      | 81691 | 05-DEC-2010 | 00:34:04.811 | 00:35:59.762 | 114.95100    |
| MS      | 81697 | 05-DEC-2010 | 11:11:53.487 | 11:14:30.716 | 157.22900    |
| MS      | 81698 | 05-DEC-2010 | 12:51:59.857 | 12:54:28.335 | 148.47800    |
| MS      | 81704 | 05-DEC-2010 | 22:21:42.517 | 22:23:52.860 | 130.34300    |
| MA      | 81696 | 05-DEC-2010 | 09:27:21.837 | 09:29:31.562 | 129.72500    |
| MA      | 81697 | 05-DEC-2010 | 11:07:53.208 | 11:09:02.180 | 68.972000    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| MA | 81703 | 05-DEC-2010 | 20:42:54.086 | 20:45:23.749 | 149.66300 |
| MI | 81692 | 05-DEC-2010 | 02:15:51.662 | 02:18:13.897 | 142.23500 |
| MI | 81693 | 05-DEC-2010 | 03:53:18.518 | 03:56:25.000 | 186.48200 |
| MI | 81693 | 05-DEC-2010 | 04:03:16.043 | 04:06:21.639 | 185.59600 |
| SG | 81692 | 05-DEC-2010 | 02:56:04.402 | 03:08:47.207 | 762.80500 |

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#### 1.4 - List of missing products

| Station | Orbit | Date        | Start Time   | Stop Time    | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO      | 81690 | 04-DEC-2010 | 23:46:41.148 | 00:01:06.909 | 865.76100    |
| MM      | 81690 | 04-DEC-2010 | 23:57:20.933 | 00:08:52.223 | 691.29000    |
| HO      | 81691 | 05-DEC-2010 | 01:27:36.483 | 01:39:37.589 | 721.10600    |
| MM      | 81691 | 05-DEC-2010 | 01:39:22.867 | 01:49:05.590 | 582.72300    |
| GS      | 81691 | 05-DEC-2010 | 00:43:25.574 | 00:51:35.804 | 490.23000    |
| BE      | 81692 | 05-DEC-2010 | 02:44:42.661 | 02:58:01.418 | 798.75700    |
| MM      | 81692 | 05-DEC-2010 | 03:22:17.929 | 03:29:39.570 | 441.64100    |
| CM      | 81692 | 05-DEC-2010 | 03:52:10.773 | 04:04:29.724 | 738.95100    |
| BE      | 81693 | 05-DEC-2010 | 04:24:50.999 | 04:35:38.350 | 647.35100    |
| MM      | 81693 | 05-DEC-2010 | 05:05:13.937 | 05:11:01.993 | 348.05600    |
| MM      | 81694 | 05-DEC-2010 | 06:46:57.543 | 06:53:43.505 | 405.96200    |
| KS      | 81694 | 05-DEC-2010 | 06:00:56.057 | 06:06:04.013 | 307.95600    |
| JO      | 81694 | 05-DEC-2010 | 06:29:27.687 | 06:37:19.849 | 472.16200    |
| MM      | 81695 | 05-DEC-2010 | 08:27:40.463 | 08:36:46.100 | 545.63700    |
| JO      | 81695 | 05-DEC-2010 | 08:04:21.442 | 08:19:19.693 | 898.25100    |
| MM      | 81696 | 05-DEC-2010 | 10:07:58.038 | 10:19:04.737 | 666.69900    |
| JO      | 81696 | 05-DEC-2010 | 09:46:18.587 | 09:56:38.899 | 620.31200    |
| HO      | 81697 | 05-DEC-2010 | 11:57:24.819 | 12:10:38.137 | 793.31800    |
| MM      | 81697 | 05-DEC-2010 | 11:48:01.192 | 12:00:19.209 | 738.01700    |
| HO      | 81698 | 05-DEC-2010 | 13:36:22.915 | 13:50:57.622 | 874.70700    |
| MM      | 81698 | 05-DEC-2010 | 13:27:50.651 | 13:40:33.621 | 762.97000    |
| BE      | 81699 | 05-DEC-2010 | 14:01:18.842 | 14:14:42.898 | 804.05600    |
| HO      | 81699 | 05-DEC-2010 | 15:17:38.212 | 15:25:29.831 | 471.61900    |
| MM      | 81699 | 05-DEC-2010 | 15:07:24.622 | 15:20:04.483 | 759.86100    |
| MI      | 81699 | 05-DEC-2010 | 14:36:13.808 | 14:44:29.670 | 495.86200    |
| GS      | 81699 | 05-DEC-2010 | 14:28:54.357 | 14:39:54.515 | 660.15800    |
| SG      | 81699 | 05-DEC-2010 | 15:30:28.628 | 15:44:21.027 | 832.39900    |

|    |       |             |              |              |           |
|----|-------|-------------|--------------|--------------|-----------|
| BE | 81700 | 05-DEC-2010 | 15:43:23.804 | 15:52:33.440 | 549.63600 |
| MM | 81700 | 05-DEC-2010 | 16:46:42.499 | 16:59:14.566 | 752.06700 |
| MI | 81700 | 05-DEC-2010 | 16:13:18.838 | 16:26:35.051 | 796.21300 |
| GS | 81700 | 05-DEC-2010 | 16:07:25.546 | 16:21:19.628 | 834.08200 |
| CM | 81700 | 05-DEC-2010 | 16:16:07.374 | 16:28:28.681 | 741.30700 |
| MM | 81701 | 05-DEC-2010 | 18:25:50.730 | 18:38:25.368 | 754.63800 |
| MI | 81701 | 05-DEC-2010 | 17:57:47.009 | 17:58:53.167 | 66.158000 |
| GS | 81701 | 05-DEC-2010 | 17:47:47.677 | 17:58:01.923 | 614.24600 |
| CM | 81701 | 05-DEC-2010 | 17:58:21.429 | 18:03:46.810 | 325.38100 |
| MM | 81702 | 05-DEC-2010 | 20:05:06.264 | 20:17:49.396 | 763.13200 |
| MA | 81702 | 05-DEC-2010 | 19:08:33.314 | 19:15:54.622 | 441.30800 |
| JO | 81702 | 05-DEC-2010 | 20:24:28.115 | 20:39:17.290 | 889.17500 |
| MM | 81703 | 05-DEC-2010 | 21:44:52.556 | 21:57:29.907 | 757.35100 |
| JO | 81703 | 05-DEC-2010 | 22:04:47.373 | 22:16:43.868 | 716.49500 |
| HO | 81704 | 05-DEC-2010 | 23:15:43.075 | 23:29:47.271 | 844.19600 |
| MM | 81704 | 05-DEC-2010 | 23:25:30.401 | 23:37:25.224 | 714.82300 |

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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    |

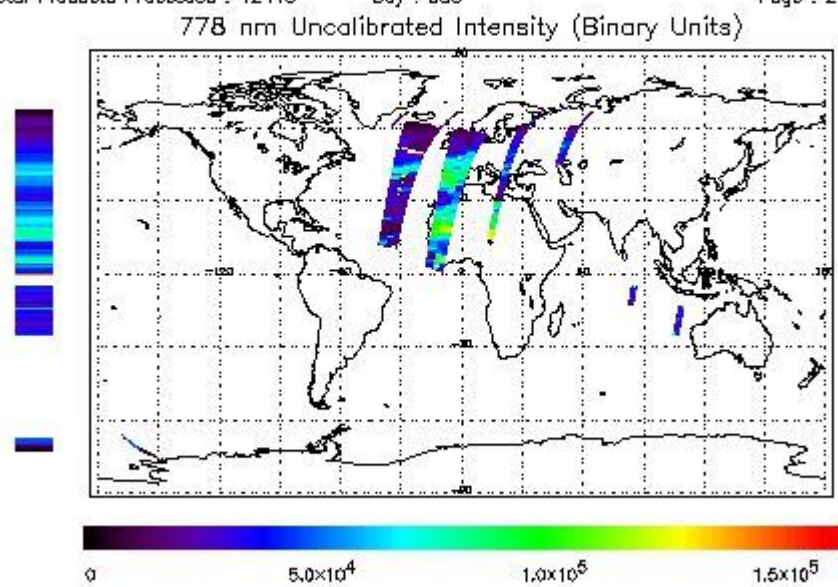
|                                      |    |
|--------------------------------------|----|
| Other Temperatures A                 | OK |
| DDHU Temperatures                    | OK |
| Optical Bench Temperatures           | OK |
| Other Temperatures B                 | OK |
| Calibration Lamp and Instr. 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

Final Product : 05-DEC-2010 00:35:59.762 : ORBIT : 81691.0290  
 Last Product : 05-DEC-2010 22:47:20.000 : ORBIT : 81704.2631  
 Total Products Processed : 12413 Day : 339 Page : 21



### Ozone Line Ratio

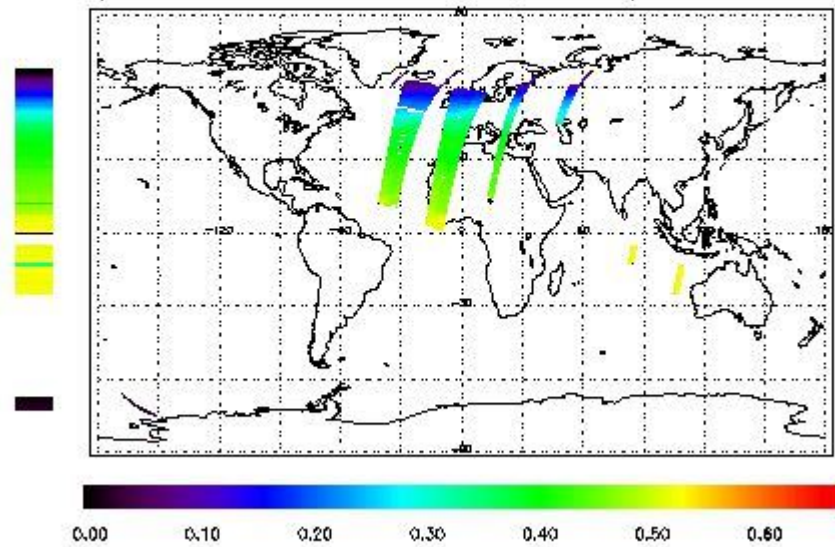
First Product : 05-DEC-2010 00:35:59.762 : ORBIT : 81691.0290

Last Product : 05-DEC-2010 22:47:20.000 : ORBIT : 81704.2631

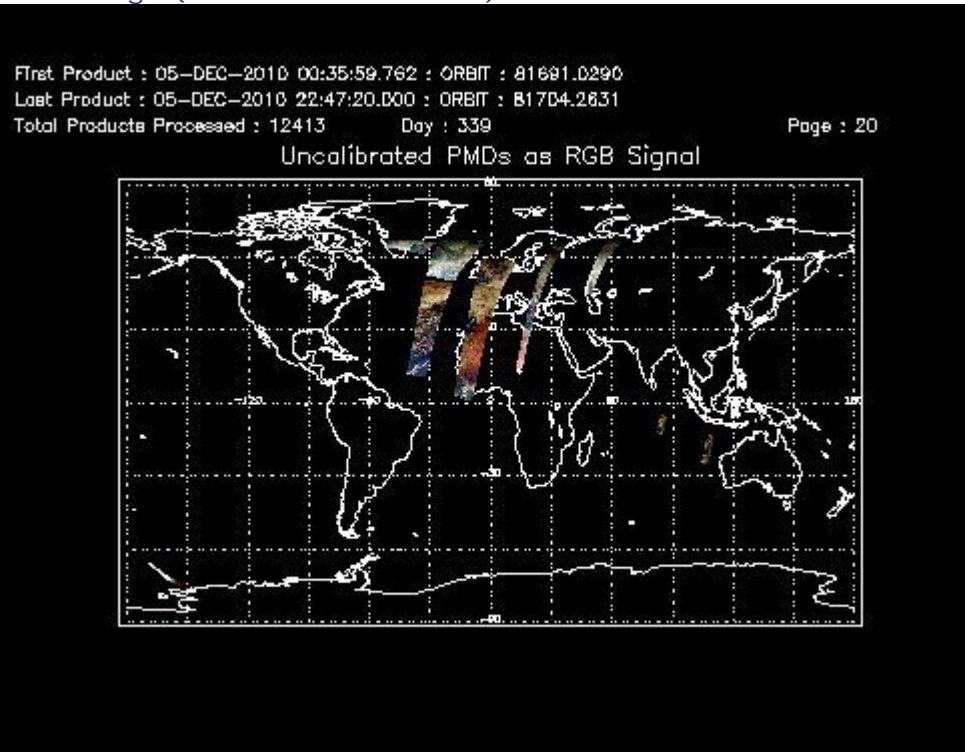
Total Products Processed : 12413 Day : 339

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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                 | 11:07:06.668 | --           | 81697 | Yes                       | --                                 | 15767  |

#### 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 |
|------------|----------|-------------|-----------|
| 13:00      | 10:00    | 81684       | 81696     |

## 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