# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

| Item | Value |
|---|---|
| Report Version | GOMEver3_3 |
| Report of Day | 30-DEC-2009 |
| Start Time of First Product | 23:44:34 29-12-2009 |
| Stop Time of Last Product | 22:32:56 |
| Number of EGOI Products analysed | 37 |
| Number of corrupted products | 0 |
| Anomalies and/or Special Operations | Nominal Data |

### 1.2 - List of received products

| Name | Date | Time |
|---|---|---|
| OI_091230BEEP1506.E2;1 | 30-DEC-2009 | 02:33:08.980 |
| EGOI_091230BEEP1512.E2 | 30-DEC-2009 | 04:12:48.591 |
| EGOI_091230CMEP5927.E2 | 30-DEC-2009 | 03:39:43.887 |
| EGOI_091230CMEP5933.E2 | 30-DEC-2009 | 05:20:32.510 |
| EGOI_091230CMEP5943.E2 | 30-DEC-2009 | 16:03:49.982 |
| EGOI_091230CMEP5950.E2 | 30-DEC-2009 | 17:44:11.602 |
| EGOI_091230GSEP6366.E2 | 30-DEC-2009 | 02:06:40.316 |
| EGOI_091230GSEP6393.E2 | 30-DEC-2009 | 03:46:16.927 |
| EGOI_091230GSEP6401.E2 | 30-DEC-2009 | 05:29:01.069 |

| | | |
|---|---|---|
| EGOI_091230KSEP1767.E2 | 30-DEC-2009 | 07:27:21.297 |
| EGOI_091230KSEP1790.E2 | 30-DEC-2009 | 09:07:21.914 |
| EGOI_091230KSEP1815.E2 | 30-DEC-2009 | 10:47:01.527 |
| EGOI_091230KSEP1844.E2 | 30-DEC-2009 | 12:26:23.144 |
| EGOI_091230KSEP1860.E2 | 30-DEC-2009 | 14:05:19.252 |
| EGOI_091230KSEP1889.E2 | 30-DEC-2009 | 15:43:21.361 |
| EGOI_091230KSEP1921.E2 | 30-DEC-2009 | 17:21:08.465 |
| EGOI_091230KSEP1957.E2 | 30-DEC-2009 | 18:59:00.069 |
| EGOI_091230KSEP1991.E2 | 30-DEC-2009 | 20:38:29.182 |
| EGOI_091230KSEP2022.E2 | 30-DEC-2009 | 22:20:17.809 |
| EGOI_091230MAEP7331.E2 | 30-DEC-2009 | 09:14:35.461 |
| EGOI_091230MAEP7340.E2 | 30-DEC-2009 | 10:54:33.071 |
| EGOI_091230MAEP7359.E2 | 30-DEC-2009 | 22:12:25.258 |
| EGOI_091230MIEP8946.E2 | 30-DEC-2009 | 02:04:49.304 |
| EGOI_091230MIEP8968.E2 | 30-DEC-2009 | 03:41:16.895 |
| EGOI_091230MIEP8988.E2 | 30-DEC-2009 | 14:25:28.379 |
| EGOI_091230MIEP9004.E2 | 30-DEC-2009 | 16:01:19.967 |
| EGOI_091230MIEP9023.E2 | 30-DEC-2009 | 17:43:14.598 |
| EGOI_091230MMEP2506.E2 | 29-DEC-2009 | 23:44:34.934 |
| EGOI_091230MMEP2519.E2 | 30-DEC-2009 | 14:54:36.059 |
| EGOI_091230MMEP2527.E2 | 30-DEC-2009 | 18:14:22.286 |
| EGOI_091230MSEP9571.E2 | 30-DEC-2009 | 00:21:05.165 |
| EGOI_091230MSEP9595.E2 | 30-DEC-2009 | 11:00:15.106 |
| EGOI_091230MSEP9622.E2 | 30-DEC-2009 | 12:39:45.723 |
| EGOI_091230MSEP9651.E2 | 30-DEC-2009 | 22:09:58.246 |
| EGOI_091230SGEP2556.E2 | 30-DEC-2009 | 02:44:43.547 |
| EGOI_091230SGEP2562.E2 | 30-DEC-2009 | 04:23:42.658 |
| EGOI_091230SGEP2570.E2 | 30-DEC-2009 | 17:04:51.859 |

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### 1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---|---|---|---|---|---|
| KS | 76828 | 30-DEC-2009 | 07:25:27.157 | 07:27:21.296 | 114.13900 |
| KS | 76829 | 30-DEC-2009 | 09:04:59.599 | 09:07:21.914 | 142.31500 |
| KS | 76830 | 30-DEC-2009 | 10:44:36.257 | 10:47:01.527 | 145.27000 |
| KS | 76831 | 30-DEC-2009 | 12:23:58.450 | 12:26:23.144 | 144.69400 |
| KS | 76832 | 30-DEC-2009 | 14:02:51.921 | 14:05:19.251 | 147.33000 |
| KS | 76833 | 30-DEC-2009 | 15:40:50.683 | 15:43:21.361 | 150.67800 |
| KS | 76834 | 30-DEC-2009 | 17:18:41.011 | 17:21:08.465 | 147.45400 |
| KS | 76835 | 30-DEC-2009 | 18:56:50.916 | 18:59:00.069 | 129.15300 |
| KS | 76836 | 30-DEC-2009 | 20:36:35.000 | 20:38:29.181 | 114.18100 |
| KS | 76837 | 30-DEC-2009 | 22:18:24.063 | 22:20:17.808 | 113.74500 |

| | | | | | |
|---|---|---|---|---|---|
| GS | 76825 | 30-DEC-2009 | 02:04:57.404 | 02:06:40.315 | 102.91100 |
| GS | 76826 | 30-DEC-2009 | 03:44:27.245 | 03:46:16.926 | 109.68100 |
| MS | 76824 | 30-DEC-2009 | 00:18:57.895 | 00:21:05.165 | 127.27000 |
| MS | 76830 | 30-DEC-2009 | 10:57:45.879 | 11:00:15.106 | 149.22700 |
| MS | 76831 | 30-DEC-2009 | 12:37:22.159 | 12:39:45.723 | 143.56400 |
| MS | 76837 | 30-DEC-2009 | 22:08:02.039 | 22:09:58.245 | 116.20600 |
| MS | 76838 | 30-DEC-2009 | 23:46:33.575 | 23:48:42.355 | 128.78000 |
| MA | 76829 | 30-DEC-2009 | 09:13:33.779 | 09:14:35.460 | 61.681000 |
| MA | 76830 | 30-DEC-2009 | 10:52:48.329 | 10:54:33.071 | 104.74200 |
| MA | 76837 | 30-DEC-2009 | 22:11:22.162 | 22:12:25.258 | 63.096000 |
| MI | 76825 | 30-DEC-2009 | 02:02:41.703 | 02:04:49.303 | 127.60000 |
| MI | 76826 | 30-DEC-2009 | 03:38:58.144 | 03:41:16.895 | 138.75100 |
| MI | 76832 | 30-DEC-2009 | 14:23:33.683 | 14:25:28.378 | 114.69500 |
| MI | 76833 | 30-DEC-2009 | 15:59:05.584 | 16:01:19.966 | 134.38200 |
| MI | 76834 | 30-DEC-2009 | 17:41:07.337 | 17:43:14.598 | 127.26100 |
| MM | 76832 | 30-DEC-2009 | 14:53:12.213 | 14:54:36.059 | 83.846000 |
| MM | 76834 | 30-DEC-2009 | 18:11:41.038 | 18:14:22.286 | 161.24800 |
| BE | 76825 | 30-DEC-2009 | 02:30:36.244 | 02:33:08.980 | 152.73600 |
| BE | 76826 | 30-DEC-2009 | 04:10:23.041 | 04:12:48.591 | 145.55000 |
| SG | 76825 | 30-DEC-2009 | 02:42:17.749 | 02:44:43.546 | 145.79700 |
| SG | 76826 | 30-DEC-2009 | 04:21:40.694 | 04:23:42.658 | 121.96400 |
| CM | 76825 | 30-DEC-2009 | 03:38:13.232 | 03:39:43.886 | 90.654000 |
| CM | 76827 | 30-DEC-2009 | 05:19:28.210 | 05:20:32.509 | 64.299000 |
| CM | 76833 | 30-DEC-2009 | 16:02:05.822 | 16:03:49.981 | 104.15900 |
| CM | 76834 | 30-DEC-2009 | 17:42:57.962 | 17:44:11.601 | 73.639000 |

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### 1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---|---|---|---|---|---|
| HO | 76824 | 30-DEC-2009 | 01:12:47.823 | 01:25:45.764 | 777.94100 |
| MM | 76824 | 30-DEC-2009 | 01:24:44.460 | 01:34:45.562 | 601.10200 |
| MM | 76825 | 30-DEC-2009 | 03:07:33.914 | 03:15:15.617 | 461.70300 |
| CM | 76825 | 30-DEC-2009 | 03:38:13.232 | 03:50:10.138 | 716.90600 |
| MM | 76826 | 30-DEC-2009 | 04:50:34.909 | 04:56:28.249 | 353.34000 |
| MM | 76827 | 30-DEC-2009 | 06:32:30.465 | 06:38:59.872 | 389.40700 |
| MM | 76828 | 30-DEC-2009 | 08:13:19.237 | 08:22:04.631 | 525.39400 |

| | | | | | |
|---|---|---|---|---|---|
| JO | 76828 | 30-DEC-2009 | 07:50:19.781 | 08:05:03.670 | 883.88900 |
| MM | 76829 | 30-DEC-2009 | 09:53:39.356 | 10:04:31.591 | 652.23500 |
| JO | 76829 | 30-DEC-2009 | 09:31:11.499 | 09:43:10.587 | 719.08800 |
| MM | 76830 | 30-DEC-2009 | 11:33:44.409 | 11:45:55.366 | 730.95700 |
| MM | 76831 | 30-DEC-2009 | 13:13:35.910 | 13:26:17.561 | 761.65100 |
| HO | 76832 | 30-DEC-2009 | 15:03:00.414 | 15:11:56.322 | 535.90800 |
| GS | 76832 | 30-DEC-2009 | 14:15:08.985 | 14:24:51.346 | 582.36100 |
| SG | 76832 | 30-DEC-2009 | 15:16:20.328 | 15:30:09.959 | 829.63100 |
| BE | 76833 | 30-DEC-2009 | 15:28:18.718 | 15:38:54.296 | 635.57800 |
| MM | 76833 | 30-DEC-2009 | 16:32:32.229 | 16:45:04.937 | 752.70800 |
| GS | 76833 | 30-DEC-2009 | 15:53:13.015 | 16:07:08.895 | 835.88000 |
| SG | 76833 | 30-DEC-2009 | 16:58:57.584 | 17:05:41.351 | 403.76700 |
| GS | 76834 | 30-DEC-2009 | 17:33:20.232 | 17:44:31.054 | 670.82200 |
| MM | 76835 | 30-DEC-2009 | 19:50:54.145 | 20:03:36.379 | 762.23400 |
| MA | 76835 | 30-DEC-2009 | 18:55:53.080 | 19:00:17.538 | 264.45800 |
| JO | 76835 | 30-DEC-2009 | 20:10:26.761 | 20:24:52.331 | 865.57000 |
| MM | 76836 | 30-DEC-2009 | 21:30:34.625 | 21:43:14.582 | 759.95700 |
| MA | 76836 | 30-DEC-2009 | 20:28:47.808 | 20:42:32.302 | 824.49400 |
| JO | 76836 | 30-DEC-2009 | 21:50:11.971 | 22:03:13.770 | 781.79900 |
| HO | 76837 | 30-DEC-2009 | 23:01:58.889 | 23:15:29.545 | 810.65600 |
| MM | 76837 | 30-DEC-2009 | 23:11:04.104 | 23:23:07.920 | 723.81600 |

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### 1.5 - List of corrupted products

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

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## 2 - Instrument Indicators and Daily Plots

### 2.1 - Instrument Indicators Status

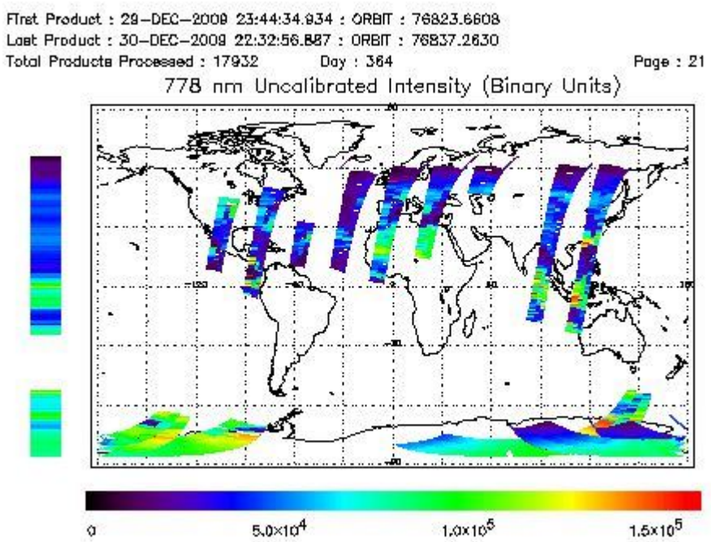
| Indicator | Value |
|---|---|
| MPH Product Confidence | OK |
| SPH Product Confidence | OK |
| Command Word Echo Summary | OK |
| Instrument Status 1A | OK |
| Instrument Status 1B | OK |
| Instrument Status 2 | OK |
| Integration Times Channel 1 | OK |
| Co-Adding and Cluster Mode Flags | OK |
| 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 |

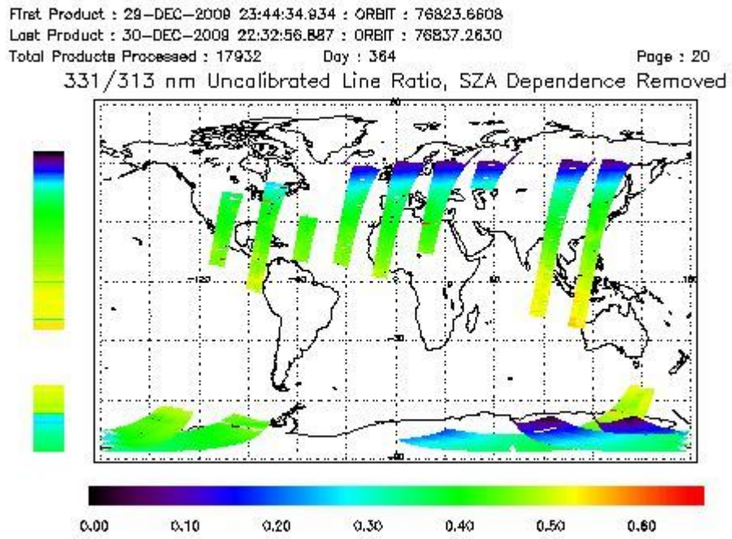
## 2.2 - Daily Plots

The images linked below provide a quick check on the data coverage and instrument performance. All data are UNCALIBRATED. For the explaination see the GOME Performance Legend

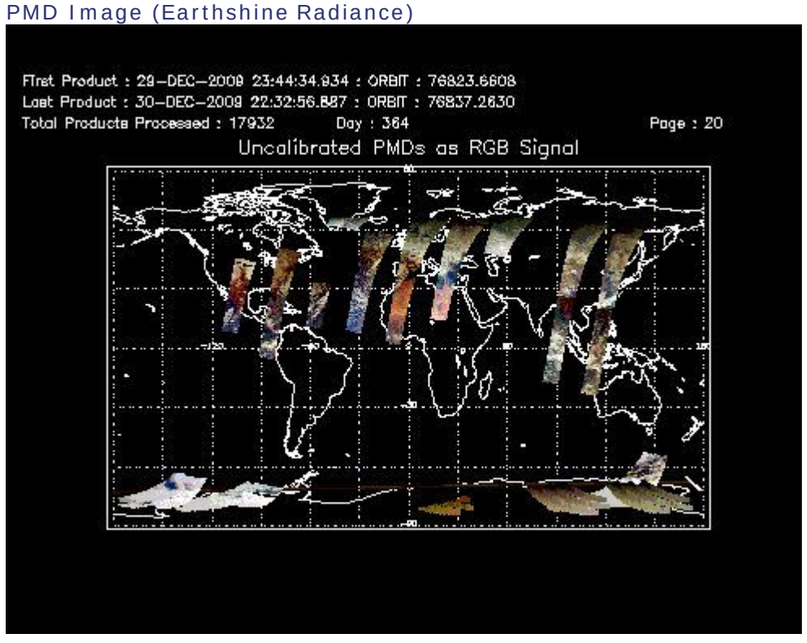
### NEAR IR Intensity




### Ozone Line Ratio




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 | 12:33:24.687 | -- | 76831 | Yes | -- | 15464 |

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

## 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