

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|---|
| Report Version | GOMEver3_3 |
| Report of Day | 05-Nov-2009 |
| Start Time of First Product | 00:51:15 |
| Stop Time of Last Product | 23:01:32 |
| Number of EGOI Products analysed | 30 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | <i>Narrow Swath continued from previous day as planned, end orbit 76043</i> |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| OI_091105GSEP2326.E2;1 | 05-NOV-2009 | 00:58:18.346 |
| EGOI_091105GSEP2358.E2 | 05-NOV-2009 | 02:34:51.937 |
| EGOI_091105GSEP2388.E2 | 05-NOV-2009 | 04:15:48.056 |
| EGOI_091105GSEP2395.E2 | 05-NOV-2009 | 05:58:08.190 |
| EGOI_091105KSEP5799.E2 | 05-NOV-2009 | 06:16:30.800 |
| EGOI_091105KSEP5829.E2 | 05-NOV-2009 | 07:56:20.914 |
| EGOI_091105KSEP5855.E2 | 05-NOV-2009 | 09:35:59.020 |
| EGOI_091105KSEP5889.E2 | 05-NOV-2009 | 11:15:35.632 |
| EGOI_091105KSEP5908.E2 | 05-NOV-2009 | 12:54:48.243 |

| | | |
|------------------------|-------------|--------------|
| EGOI_091105KSEP5937.E2 | 05-NOV-2009 | 14:33:39.850 |
| EGOI_091105KSEP5953.E2 | 05-NOV-2009 | 16:11:20.955 |
| EGOI_091105KSEP5984.E2 | 05-NOV-2009 | 17:49:18.558 |
| EGOI_091105KSEP6020.E2 | 05-NOV-2009 | 19:27:19.167 |
| EGOI_091105KSEP6050.E2 | 05-NOV-2009 | 21:07:30.278 |
| EGOI_091105KSEP6080.E2 | 05-NOV-2009 | 22:50:02.409 |
| EGOI_091105MAEP5625.E2 | 05-NOV-2009 | 08:05:04.461 |
| EGOI_091105MAEP5637.E2 | 05-NOV-2009 | 09:43:38.071 |
| EGOI_091105MAEP5658.E2 | 05-NOV-2009 | 20:59:55.731 |
| EGOI_091105MIEP3518.E2 | 05-NOV-2009 | 02:31:44.417 |
| EGOI_091105MIEP3542.E2 | 05-NOV-2009 | 04:10:54.024 |
| EGOI_091105MIEP3566.E2 | 05-NOV-2009 | 14:51:50.464 |
| EGOI_091105MIEP3595.E2 | 05-NOV-2009 | 16:30:04.572 |
| EGOI_091105MSEP3063.E2 | 05-NOV-2009 | 00:51:15.303 |
| EGOI_091105MSEP3084.E2 | 05-NOV-2009 | 11:28:40.218 |
| EGOI_091105MSEP3108.E2 | 05-NOV-2009 | 13:09:18.337 |
| EGOI_091105MSEP3139.E2 | 05-NOV-2009 | 22:37:56.339 |
| EGOI_091105SGEP1007.E2 | 05-NOV-2009 | 03:20:32.719 |
| EGOI_091105SGEP1014.E2 | 05-NOV-2009 | 04:58:30.314 |
| EGOI_091105SGEP1022.E2 | 05-NOV-2009 | 14:10:18.713 |
| EGOI_091105SGEP1029.E2 | 05-NOV-2009 | 15:47:25.306 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 76040 | 05-NOV-2009 | 06:14:50.896 | 06:16:30.800 | 99.904000 |
| KS | 76041 | 05-NOV-2009 | 07:53:51.570 | 07:56:20.914 | 149.34400 |
| KS | 76042 | 05-NOV-2009 | 09:33:27.709 | 09:35:59.019 | 151.31000 |
| KS | 76043 | 05-NOV-2009 | 11:13:01.977 | 11:15:35.632 | 153.65500 |
| KS | 76044 | 05-NOV-2009 | 12:52:16.695 | 12:54:48.243 | 151.54800 |
| KS | 76045 | 05-NOV-2009 | 14:31:02.845 | 14:33:39.849 | 157.00400 |
| KS | 76046 | 05-NOV-2009 | 16:08:45.498 | 16:11:20.955 | 155.45700 |
| KS | 76047 | 05-NOV-2009 | 17:46:40.724 | 17:49:18.558 | 157.83400 |
| KS | 76048 | 05-NOV-2009 | 19:25:10.101 | 19:27:19.166 | 129.06500 |
| KS | 76049 | 05-NOV-2009 | 21:05:25.942 | 21:07:30.277 | 124.33500 |
| KS | 76050 | 05-NOV-2009 | 22:47:59.132 | 22:50:02.408 | 123.27600 |
| GS | 76037 | 05-NOV-2009 | 00:56:42.043 | 00:58:18.346 | 96.303000 |
| GS | 76038 | 05-NOV-2009 | 02:32:55.906 | 02:34:51.937 | 116.03100 |
| GS | 76039 | 05-NOV-2009 | 04:13:49.293 | 04:15:48.055 | 118.76200 |
| MS | 76037 | 05-NOV-2009 | 00:49:39.386 | 00:51:15.303 | 95.917000 |
| MS | 76043 | 05-NOV-2009 | 11:25:59.019 | 11:28:40.218 | 161.19900 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 76044 | 05-NOV-2009 | 13:06:41.918 | 13:09:18.337 | 156.41900 |
| MS | 76050 | 05-NOV-2009 | 22:35:31.866 | 22:37:56.338 | 144.47200 |
| MA | 76041 | 05-NOV-2009 | 08:03:53.043 | 08:05:04.460 | 71.417000 |
| MA | 76042 | 05-NOV-2009 | 09:41:31.401 | 09:43:38.070 | 126.66900 |
| MA | 76049 | 05-NOV-2009 | 20:57:07.788 | 20:59:55.731 | 167.94300 |
| MI | 76038 | 05-NOV-2009 | 02:29:18.076 | 02:31:44.417 | 146.34100 |
| MI | 76039 | 05-NOV-2009 | 04:07:47.544 | 04:10:54.023 | 186.47900 |
| MI | 76045 | 05-NOV-2009 | 14:49:33.391 | 14:51:50.464 | 137.07300 |
| MI | 76046 | 05-NOV-2009 | 16:27:37.156 | 16:30:04.572 | 147.41600 |
| SG | 76038 | 05-NOV-2009 | 03:10:00.412 | 03:20:32.719 | 632.30700 |
| SG | 76039 | 05-NOV-2009 | 04:51:40.429 | 04:58:30.314 | 409.88500 |
| SG | 76044 | 05-NOV-2009 | 14:08:11.227 | 14:10:18.713 | 127.48600 |
| SG | 76045 | 05-NOV-2009 | 15:44:44.651 | 15:47:25.305 | 160.65400 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 76036 | 05-NOV-2009 | 00:00:48.430 | 00:15:19.937 | 871.50700 |
| MM | 76036 | 05-NOV-2009 | 00:11:51.516 | 00:23:10.383 | 678.86700 |
| HO | 76037 | 05-NOV-2009 | 01:42:37.567 | 01:53:25.086 | 647.51900 |
| MM | 76037 | 05-NOV-2009 | 01:54:02.423 | 02:03:26.002 | 563.57900 |
| BE | 76038 | 05-NOV-2009 | 02:58:52.288 | 03:12:17.276 | 804.98800 |
| MM | 76038 | 05-NOV-2009 | 03:37:02.056 | 03:44:04.446 | 422.39000 |
| CM | 76038 | 05-NOV-2009 | 02:32:56.753 | 02:34:43.222 | 106.46900 |
| BE | 76039 | 05-NOV-2009 | 04:39:23.981 | 04:49:05.691 | 581.71000 |
| MM | 76039 | 05-NOV-2009 | 05:19:51.232 | 05:25:37.608 | 346.37600 |
| CM | 76039 | 05-NOV-2009 | 05:46:53.232 | 05:59:18.475 | 745.24300 |
| MM | 76040 | 05-NOV-2009 | 07:01:23.392 | 07:08:27.520 | 424.12800 |
| JO | 76040 | 05-NOV-2009 | 06:42:20.448 | 06:52:23.394 | 602.94600 |
| MM | 76041 | 05-NOV-2009 | 08:42:01.217 | 08:51:26.597 | 565.38000 |
| JO | 76041 | 05-NOV-2009 | 08:18:30.100 | 08:33:31.504 | 901.40400 |
| MM | 76042 | 05-NOV-2009 | 10:22:16.437 | 10:33:36.535 | 680.09800 |
| JO | 76042 | 05-NOV-2009 | 10:01:51.195 | 10:09:44.163 | 472.96800 |
| HO | 76043 | 05-NOV-2009 | 12:11:28.339 | 12:25:18.453 | 830.11400 |
| MM | 76043 | 05-NOV-2009 | 12:02:17.700 | 12:14:41.808 | 744.10800 |
| MA | 76043 | 05-NOV-2009 | 11:22:31.644 | 11:30:54.686 | 503.04200 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| HO | 76044 | 05-NOV-2009 | 13:50:40.343 | 14:04:56.818 | 856.47500 |
| MM | 76044 | 05-NOV-2009 | 13:42:05.071 | 13:54:48.780 | 763.70900 |
| BE | 76045 | 05-NOV-2009 | 14:15:30.737 | 14:28:54.372 | 803.63500 |
| MM | 76045 | 05-NOV-2009 | 15:21:36.685 | 15:34:15.209 | 758.52400 |
| GS | 76045 | 05-NOV-2009 | 14:42:47.500 | 14:53:37.856 | 650.35600 |
| BE | 76046 | 05-NOV-2009 | 15:58:50.566 | 16:05:54.783 | 424.21700 |
| MM | 76046 | 05-NOV-2009 | 17:00:52.555 | 17:13:24.227 | 751.67200 |
| GS | 76046 | 05-NOV-2009 | 16:21:39.927 | 16:35:25.069 | 825.14200 |
| CM | 76046 | 05-NOV-2009 | 16:30:16.005 | 16:42:40.698 | 744.69300 |
| MM | 76047 | 05-NOV-2009 | 18:40:00.551 | 18:52:36.398 | 755.84700 |
| GS | 76047 | 05-NOV-2009 | 18:02:19.246 | 18:11:24.871 | 545.62500 |
| JO | 76047 | 05-NOV-2009 | 19:02:44.843 | 19:09:46.159 | 421.31600 |
| MM | 76048 | 05-NOV-2009 | 20:19:19.011 | 20:32:02.759 | 763.74800 |
| MA | 76048 | 05-NOV-2009 | 19:21:42.938 | 19:30:34.785 | 531.84700 |
| JO | 76048 | 05-NOV-2009 | 20:38:34.395 | 20:53:34.794 | 900.39900 |
| HO | 76049 | 05-NOV-2009 | 21:54:05.964 | 22:03:28.729 | 562.76500 |
| MM | 76049 | 05-NOV-2009 | 21:59:11.548 | 22:11:45.526 | 753.97800 |
| JO | 76049 | 05-NOV-2009 | 22:19:31.593 | 22:30:01.274 | 629.68100 |
| HO | 76050 | 05-NOV-2009 | 23:29:43.053 | 23:44:02.552 | 859.49900 |
| MM | 76050 | 05-NOV-2009 | 23:39:58.018 | 23:51:42.789 | 704.77100 |
| MA | 76050 | 05-NOV-2009 | 22:42:26.298 | 22:47:40.662 | 314.36400 |

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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 Temperatures 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 |

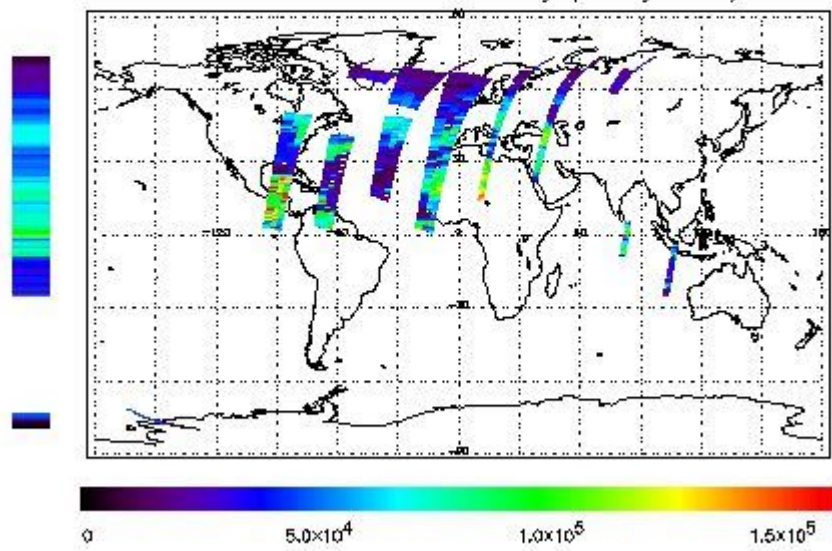
2.2 - Daily Plots

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 : 05-NOV-2009 00:51:15.303 : ORBIT : 76037.0378
 Last Product : 05-NOV-2009 23:01:32.479 : ORBIT : 76050.2615
 Total Products Processed : 14095 Day : 309 Page : 21

778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

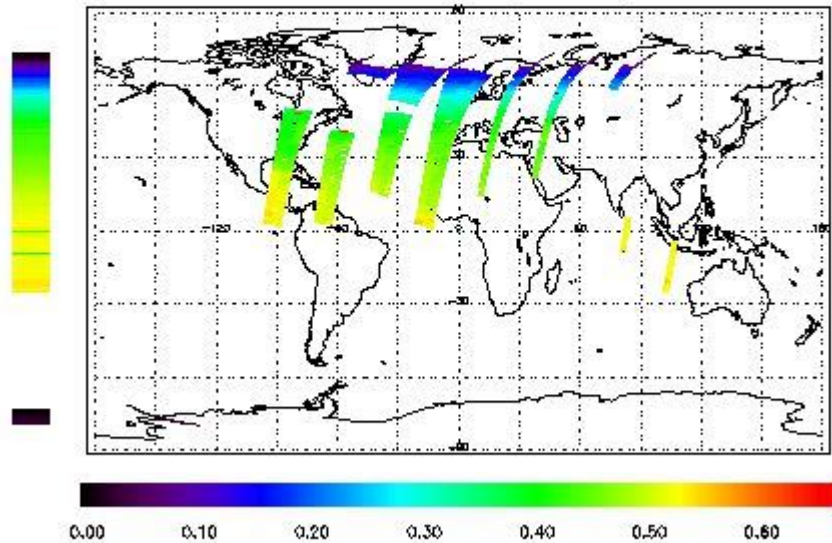
First Product : 05-NOV-2009 00:51:15.303 : ORBIT : 76037.0378

Last Product : 05-NOV-2009 23:01:32.479 : ORBIT : 76050.2615

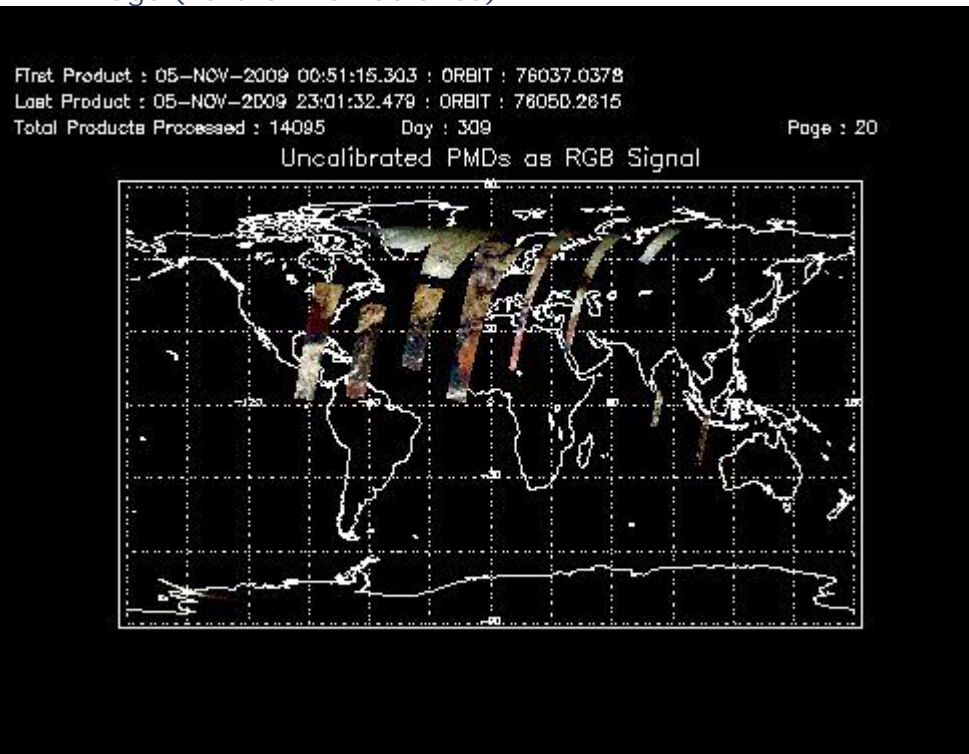
Total Products Processed : 14095 Day : 309

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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 | 11:19:28.150 | -- | 76043 | Yes | -- | 15538 |

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 | 10:30 | 76030 | 76043 |

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