# GOME Daily Report

## INDEX



## 1 - General Info

### 1.1 - Report Summary

| Item | Value |
|---|---|
| Report Version | GOMEver3_3 |
| Report of Day | 13-SEP-2009 |
| Start Time of First Product | 00:15:27 |
| Stop Time of Last Product | 22:27:26 |
| Number of EGOI Products analysed | 28 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

### 1.2 - List of received products

| Name | Date | Time |
|---|---|---|
| EGOI_090913BEEP0675.E2 | 13-SEP-2009 | 02:27:42.844 |
| EGOI_090913BEEP0681.E2 | 13-SEP-2009 | 04:07:14.954 |
| EGOI_090913GSEP8688.E2 | 13-SEP-2009 | 02:01:30.692 |
| EGOI_090913GSEP8719.E2 | 13-SEP-2009 | 03:40:46.293 |
| EGOI_090913GSEP8728.E2 | 13-SEP-2009 | 05:23:33.415 |
| EGOI_090913KSEP1600.E2 | 13-SEP-2009 | 07:21:50.632 |
| EGOI_090913KSEP1624.E2 | 13-SEP-2009 | 09:01:51.243 |
| EGOI_090913KSEP1650.E2 | 13-SEP-2009 | 10:41:30.842 |
| EGOI_090913KSEP1680.E2 | 13-SEP-2009 | 12:20:53.948 |

| | | |
|---|---|---|
| EGOI_090913KSEP1711.E2 | 13-SEP-2009 | 13:59:53.048 |
| EGOI_090913KSEP1739.E2 | 13-SEP-2009 | 15:38:01.146 |
| EGOI_090913KSEP1761.E2 | 13-SEP-2009 | 17:15:43.741 |
| EGOI_090913KSEP1795.E2 | 13-SEP-2009 | 18:53:35.332 |
| EGOI_090913KSEP1830.E2 | 13-SEP-2009 | 20:32:53.935 |
| EGOI_090913KSEP1861.E2 | 13-SEP-2009 | 22:14:44.054 |
| EGOI_090913MAEP3798.E2 | 13-SEP-2009 | 09:09:13.782 |
| EGOI_090913MAEP3812.E2 | 13-SEP-2009 | 10:49:03.889 |
| EGOI_090913MIEP9030.E2 | 13-SEP-2009 | 01:59:51.684 |
| EGOI_090913MIEP9056.E2 | 13-SEP-2009 | 03:37:04.270 |
| EGOI_090913MIEP9074.E2 | 13-SEP-2009 | 05:20:12.395 |
| EGOI_090913MMEP8225.E2 | 13-SEP-2009 | 01:20:21.438 |
| EGOI_090913MMEP8232.E2 | 13-SEP-2009 | 03:02:50.559 |
| EGOI_090913MSEP7059.E2 | 13-SEP-2009 | 00:15:27.047 |
| EGOI_090913MSEP7076.E2 | 13-SEP-2009 | 10:55:00.925 |
| EGOI_090913MSEP7083.E2 | 13-SEP-2009 | 12:34:19.526 |
| EGOI_090913MSEP7110.E2 | 13-SEP-2009 | 22:04:46.999 |
| EGOI_090913SGEP9684.E2 | 13-SEP-2009 | 02:45:24.954 |
| EGOI_090913SGEP9692.E2 | 13-SEP-2009 | 04:23:28.551 |

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## 1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---|---|---|---|---|---|
| KS | 75282 | 13-SEP-2009 | 07:19:46.641 | 07:21:50.631 | 123.99000 |
| KS | 75283 | 13-SEP-2009 | 08:59:17.989 | 09:01:51.243 | 153.25400 |
| KS | 75284 | 13-SEP-2009 | 10:38:54.960 | 10:41:30.842 | 155.88200 |
| KS | 75285 | 13-SEP-2009 | 12:18:18.457 | 12:20:53.948 | 155.49100 |
| KS | 75286 | 13-SEP-2009 | 13:57:12.506 | 13:59:53.047 | 160.54100 |
| KS | 75287 | 13-SEP-2009 | 15:35:15.523 | 15:38:01.145 | 165.62200 |
| KS | 75288 | 13-SEP-2009 | 17:13:03.623 | 17:15:43.741 | 160.11800 |
| KS | 75289 | 13-SEP-2009 | 18:51:11.963 | 18:53:35.332 | 143.36900 |
| KS | 75290 | 13-SEP-2009 | 20:30:50.054 | 20:32:53.935 | 123.88100 |
| KS | 75291 | 13-SEP-2009 | 22:12:30.838 | 22:14:44.054 | 133.21600 |
| GS | 75279 | 13-SEP-2009 | 01:59:24.255 | 02:01:30.692 | 126.43700 |
| GS | 75280 | 13-SEP-2009 | 03:38:38.444 | 03:40:46.293 | 127.84900 |
| MS | 75278 | 13-SEP-2009 | 00:12:59.989 | 00:15:27.046 | 147.05700 |
| MS | 75284 | 13-SEP-2009 | 10:52:20.009 | 10:55:00.924 | 160.91500 |
| MS | 75284 | 13-SEP-2009 | 11:01:18.963 | 11:04:28.054 | 189.09100 |
| MS | 75285 | 13-SEP-2009 | 12:31:36.405 | 12:34:19.525 | 163.12000 |
| MS | 75285 | 13-SEP-2009 | 12:34:33.029 | 12:43:43.643 | 550.61400 |

| | | | | | |
|---|---|---|---|---|---|
| MS | 75291 | 13-SEP-2009 | 22:02:36.662 | 22:04:46.999 | 130.33700 |
| MS | 75292 | 13-SEP-2009 | 23:40:45.436 | 23:43:08.597 | 143.16100 |
| MA | 75283 | 13-SEP-2009 | 09:07:51.892 | 09:09:13.781 | 81.889000 |
| MA | 75284 | 13-SEP-2009 | 10:47:02.171 | 10:49:03.888 | 121.71700 |
| MI | 75279 | 13-SEP-2009 | 01:57:32.478 | 01:59:51.684 | 139.20600 |
| MI | 75280 | 13-SEP-2009 | 03:33:16.253 | 03:37:04.269 | 228.01600 |
| MI | 75281 | 13-SEP-2009 | 05:18:28.212 | 05:20:12.395 | 104.18300 |
| MM | 75278 | 13-SEP-2009 | 01:18:53.435 | 01:20:21.438 | 88.003000 |
| MM | 75279 | 13-SEP-2009 | 03:01:40.393 | 03:02:50.558 | 70.165000 |
| BE | 75279 | 13-SEP-2009 | 02:24:58.689 | 02:27:42.843 | 164.15400 |
| BE | 75280 | 13-SEP-2009 | 04:04:36.984 | 04:07:14.953 | 157.96900 |
| SG | 75279 | 13-SEP-2009 | 02:36:50.174 | 02:45:24.954 | 514.78000 |
| SG | 75280 | 13-SEP-2009 | 04:15:48.464 | 04:23:28.550 | 460.08600 |

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### 1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---|---|---|---|---|---|
| HO | 75278 | 13-SEP-2009 | 01:06:59.626 | 01:20:11.186 | 791.56000 |
| CM | 75279 | 13-SEP-2009 | 03:32:40.890 | 03:44:24.302 | 703.41200 |
| MM | 75280 | 13-SEP-2009 | 04:44:42.855 | 04:50:39.272 | 356.41700 |
| CM | 75280 | 13-SEP-2009 | 05:13:22.241 | 05:22:18.676 | 536.43500 |
| MM | 75281 | 13-SEP-2009 | 06:26:43.256 | 06:33:06.593 | 383.33700 |
| MM | 75282 | 13-SEP-2009 | 08:07:34.600 | 08:16:11.795 | 517.19500 |
| JO | 75282 | 13-SEP-2009 | 07:44:45.124 | 07:59:20.070 | 874.94600 |
| MM | 75283 | 13-SEP-2009 | 09:47:55.802 | 09:58:41.959 | 646.15700 |
| JO | 75283 | 13-SEP-2009 | 09:25:13.313 | 09:37:43.293 | 749.98000 |
| MM | 75284 | 13-SEP-2009 | 11:28:01.619 | 11:40:09.473 | 727.85400 |
| MM | 75285 | 13-SEP-2009 | 13:07:53.928 | 13:20:34.873 | 760.94500 |
| HO | 75286 | 13-SEP-2009 | 14:57:09.857 | 15:06:27.820 | 557.96300 |
| MM | 75286 | 13-SEP-2009 | 14:47:31.153 | 15:00:12.739 | 761.58600 |
| MI | 75286 | 13-SEP-2009 | 14:19:11.822 | 14:21:27.263 | 135.44100 |
| GS | 75286 | 13-SEP-2009 | 14:09:41.974 | 14:18:45.793 | 543.81900 |
| SG | 75286 | 13-SEP-2009 | 15:10:43.199 | 15:24:27.419 | 824.22000 |
| BE | 75287 | 13-SEP-2009 | 15:22:20.786 | 15:33:23.581 | 662.79500 |
| MM | 75287 | 13-SEP-2009 | 16:26:52.054 | 16:39:25.083 | 753.02900 |
| MI | 75287 | 13-SEP-2009 | 15:53:25.702 | 16:06:47.958 | 802.25600 |

| | | | | | |
|---|---|---|---|---|---|
| GS | 75287 | 13-SEP-2009 | 15:47:32.552 | 16:01:27.093 | 834.54100 |
| SG | 75287 | 13-SEP-2009 | 16:52:40.112 | 17:00:40.570 | 480.45800 |
| CM | 75287 | 13-SEP-2009 | 15:56:31.394 | 16:08:20.522 | 709.12800 |
| MM | 75288 | 13-SEP-2009 | 18:06:01.187 | 18:18:34.394 | 753.20700 |
| MI | 75288 | 13-SEP-2009 | 17:34:59.822 | 17:42:34.047 | 454.22500 |
| GS | 75288 | 13-SEP-2009 | 17:27:34.152 | 17:39:04.763 | 690.61100 |
| CM | 75288 | 13-SEP-2009 | 17:36:57.919 | 17:45:51.224 | 533.30500 |
| MM | 75289 | 13-SEP-2009 | 19:45:13.458 | 19:57:55.269 | 761.81100 |
| MA | 75289 | 13-SEP-2009 | 18:50:20.595 | 18:54:34.884 | 254.28900 |
| JO | 75289 | 13-SEP-2009 | 20:04:51.774 | 20:19:04.101 | 852.32700 |
| MM | 75290 | 13-SEP-2009 | 21:24:51.740 | 21:37:32.538 | 760.79800 |
| MA | 75290 | 13-SEP-2009 | 20:23:10.871 | 20:36:57.637 | 826.76600 |
| JO | 75290 | 13-SEP-2009 | 21:44:23.700 | 21:57:46.823 | 803.12300 |
| HO | 75291 | 13-SEP-2009 | 22:56:27.376 | 23:09:45.919 | 798.54300 |
| MM | 75291 | 13-SEP-2009 | 23:05:17.951 | 23:17:25.072 | 727.12100 |
| MA | 75291 | 13-SEP-2009 | 22:05:21.920 | 22:15:25.497 | 603.57700 |
| MS | 75292 | 13-SEP-2009 | 23:40:45.436 | 23:53:43.277 | 777.84100 |

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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 | South Polar View operations |
| Polarization Detectors | OK |
| FPA Temperatures A | OK |

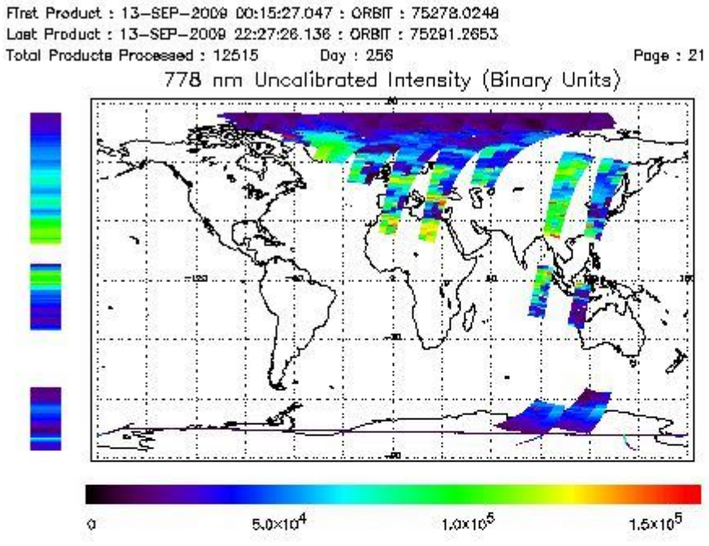
| | |
|---|---|
| FPA Temperaturas B | OK |
| Charge Amp Temperatures | OK |
| Other Temperatures A | OK |
| DDHU Temperatures | OK |
| Optical Bench Temperatures | OK |
| Other Temperatures B | OK |
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature 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 |

(1)

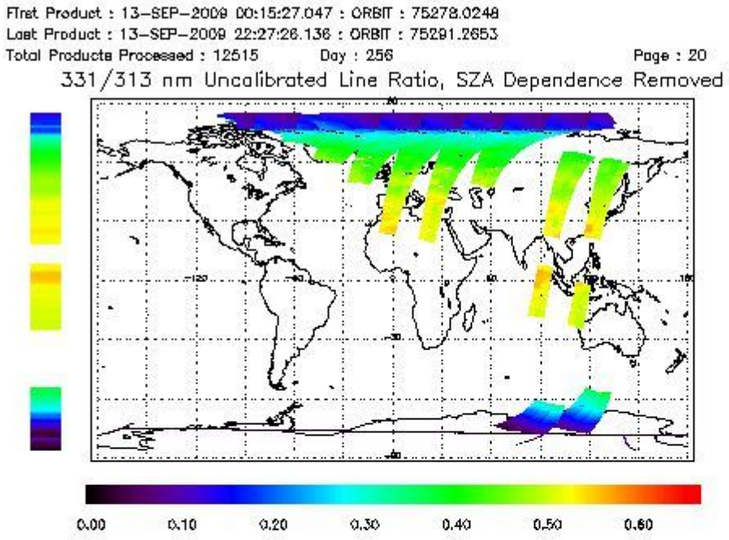
## 2.2 - Daily Plots

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

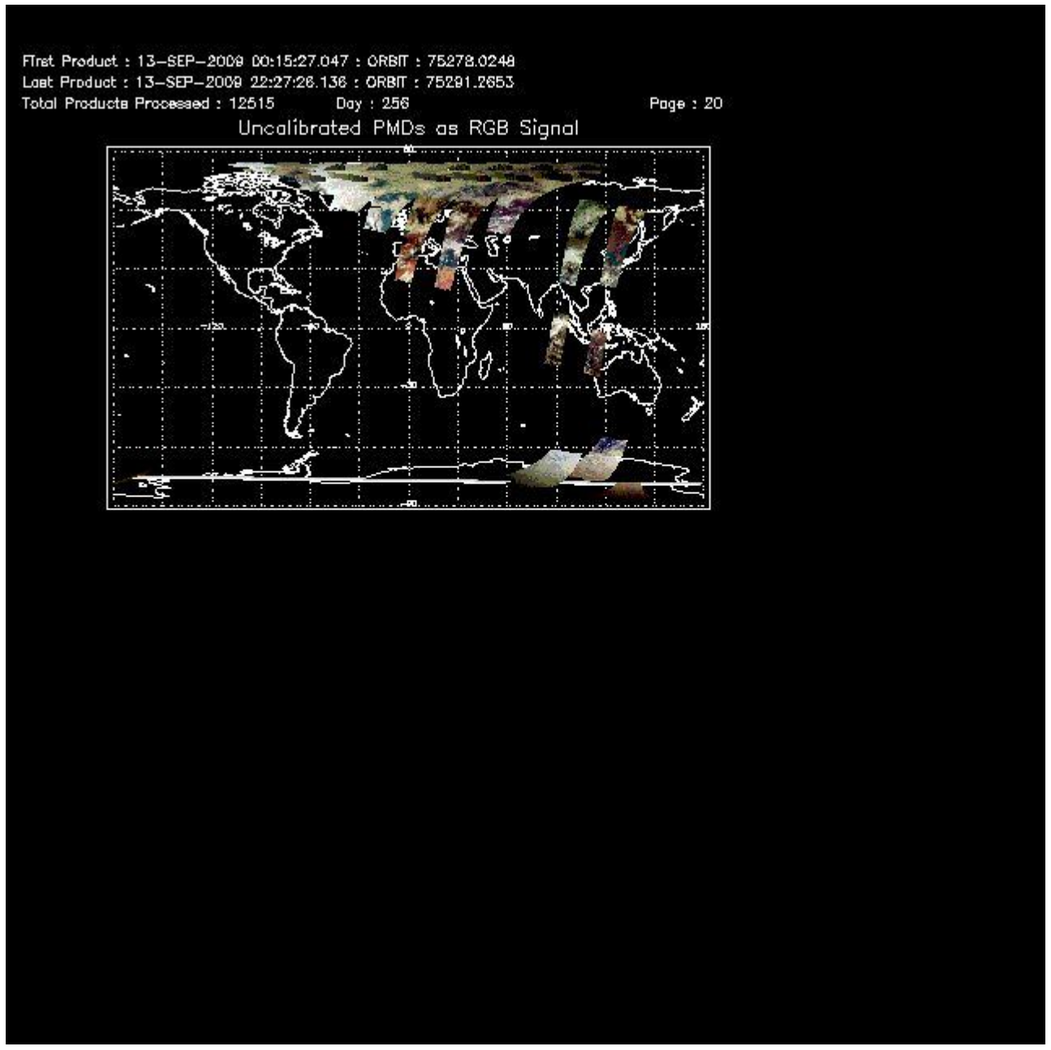
NEAR IR Intensity




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 (Y/NS/NE) | Warm Detector Temperature (TST/44) | Max PMD Readout during solar calibration (BU set 2/12) |
|---|---|---|---|---|---|---|
| D | 19:02:11.387 | -- | 75289 | Y | -- | 15066 |

(2)(3)

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

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

(2)(3)

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## 4 - Instrument Anomalies

### 4.1 - Single Event Upset (SEU)

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility (Y/NS/NE) |
|---|---|---|---|---|
| -- | -- | -- | -- | -- |

(2)

### 4.2 - Instrument Off

| Start Time | End Time | Start Orbit | End Orbit | MPS Resumption | Ground Station Visibility (Y/NS/NE) |
|---|---|---|---|---|---|
| -- | -- | -- | -- | -- | -- |

(2)

### 4.3 - Cooler Switchings

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility (Y/NS/NE) | Max Temp. Ch 1 | Max Temp. Ch 2 | Max Temp. Ch 3 | Max Temp. Ch 4 |
|---|---|---|---|---|---|---|---|---|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

(2)

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## 5 - Instrument Operations

### 5.1 - Timeline Interruptions

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility (Y/NS/NE) |
|---|---|---|---|---|
| -- | -- | -- | -- | -- |

(2)

### 5.2 - TST44

| Start Time | Start Orbit | Ground Station Visibility (Y/NS/NE) |
|---|---|---|
| -- | -- | -- |

(2)

### 5.3 - Power Cycle

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility (Y/NS/NE) |
|---|---|---|---|---|
| -- | -- | -- | -- | -- |

(2)

### 5.4 - Wrong Command Execution

| Start Time | End Time | Start Orbit | End Orbit | Ground Station Visibility (Y/NS/NE) |
|---|---|---|---|---|
| -- | -- | -- | -- | -- |

(2)

### 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 |
|---|---|---|---|
| 01:00 05-Sep | -- | 75164 | -- |

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Legend:
(1) The Instrument Indicators field has the values: OK or NOK (Not OK)
(2) The Ground Station Visibility field has the values: Y (in case of visibility); NS (No Start); NE (No End). This occurs since the failure of the on-board recorder (2003)
(3) 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