

GOME Daily Report

INDEX

1. [General Info](#)
 - 1.1 [Report Summary](#)
 - 1.2 [List of received products](#)
 - 1.3 [List of data gaps](#)
 - 1.4 [List of missing products](#)
 - 1.5 [List of corrupted products](#)
2. [Instrument Indicators and Daily Plots](#)
 - 2.1 [Instrument Indicators Status](#)
 - 2.2 [Daily Plots](#)
3. [Instrument Calibration](#)
 - 3.1 [Solar Calibration \(daily/TST44\)](#)
 - 3.2 [Lamp Calibration \(quarterly/TST44\)](#)
4. [Instrument Anomalies](#)
 - 4.1 [Single Event Upset \(SEU\)](#)
 - 4.2 [Instrument Off](#)
 - 4.3 [Cooler Switchings](#)
5. [Instrument Operations](#)
 - 5.1 [Timeline Interruptions](#)
 - 5.2 [TST44](#)
 - 5.3 [Power Cycle](#)
 - 5.4 [Wrong Command Execution](#)
 - 5.5 [Narrow Swath Timeline](#)
 - 5.6 [Seasonal Operations](#)

1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 10-JAN-2011 |
| Start Time of First Product | 00:03:28 |
| Stop Time of Last Product | 23:45:12 |
| Number of EGOI Products analysed | 23 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_110110GSEP3210.E2 | 10-JAN-2011 | 03:29:01.261 |
| EGOI_110110GSEP3220.E2 | 10-JAN-2011 | 05:11:55.891 |
| EGOI_110110KSEP4156.E2 | 10-JAN-2011 | 07:10:29.627 |
| EGOI_110110KSEP4184.E2 | 10-JAN-2011 | 08:50:27.250 |
| EGOI_110110KSEP4211.E2 | 10-JAN-2011 | 10:30:06.863 |
| EGOI_110110KSEP4237.E2 | 10-JAN-2011 | 12:09:32.983 |
| EGOI_110110KSEP4253.E2 | 10-JAN-2011 | 13:48:32.091 |
| EGOI_110110KSEP4267.E2 | 10-JAN-2011 | 15:26:40.203 |
| EGOI_110110KSEP4280.E2 | 10-JAN-2011 | 17:04:27.307 |

| | | |
|------------------------|-------------|--------------|
| EGOI_110110KSEP4309.E2 | 10-JAN-2011 | 18:42:26.415 |
| EGOI_110110KSEP4340.E2 | 10-JAN-2011 | 20:21:28.531 |
| EGOI_110110KSEP4368.E2 | 10-JAN-2011 | 22:03:09.656 |
| EGOI_110110MAEP1779.E2 | 10-JAN-2011 | 08:59:16.797 |
| EGOI_110110MAEP1792.E2 | 10-JAN-2011 | 10:37:35.412 |
| EGOI_110110MSEP3044.E2 | 10-JAN-2011 | 00:03:28.490 |
| EGOI_110110MSEP3064.E2 | 10-JAN-2011 | 10:44:03.950 |
| EGOI_110110MSEP3092.E2 | 10-JAN-2011 | 12:22:52.562 |
| EGOI_110110MSEP3120.E2 | 10-JAN-2011 | 21:53:53.101 |
| EGOI_110110MSEP3152.E2 | 10-JAN-2011 | 23:31:47.705 |
| EGOI_110110SGEP0766.E2 | 10-JAN-2011 | 02:28:32.381 |
| EGOI_110110SGEP0771.E2 | 10-JAN-2011 | 04:06:43.492 |
| EGOI_110110SGEP0776.E2 | 10-JAN-2011 | 15:03:46.058 |
| EGOI_110110SGEP0781.E2 | 10-JAN-2011 | 16:43:21.178 |

[[BACK TO MENU](#)]

1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 82210 | 10-JAN-2011 | 07:08:26.113 | 07:10:29.627 | 123.51400 |
| KS | 82211 | 10-JAN-2011 | 08:47:54.814 | 08:50:27.249 | 152.43500 |
| KS | 82212 | 10-JAN-2011 | 10:27:32.244 | 10:30:06.862 | 154.61800 |
| KS | 82213 | 10-JAN-2011 | 12:06:58.166 | 12:09:32.982 | 154.81600 |
| KS | 82214 | 10-JAN-2011 | 13:45:54.169 | 13:48:32.091 | 157.92200 |
| KS | 82215 | 10-JAN-2011 | 15:24:04.925 | 15:26:40.203 | 155.27800 |
| KS | 82216 | 10-JAN-2011 | 17:01:47.065 | 17:04:27.306 | 160.24100 |
| KS | 82217 | 10-JAN-2011 | 18:39:54.884 | 18:42:26.414 | 151.53000 |
| KS | 82218 | 10-JAN-2011 | 20:19:21.352 | 20:21:28.530 | 127.17800 |
| KS | 82219 | 10-JAN-2011 | 22:00:46.055 | 22:03:09.655 | 143.60000 |
| KS | 82220 | 10-JAN-2011 | 23:45:03.262 | 23:46:49.303 | 106.04100 |
| GS | 82208 | 10-JAN-2011 | 03:27:03.983 | 03:29:01.261 | 117.27800 |
| MS | 82206 | 10-JAN-2011 | 00:01:10.535 | 00:03:28.489 | 137.95400 |
| MS | 82212 | 10-JAN-2011 | 10:41:22.008 | 10:44:03.949 | 161.94100 |
| MS | 82213 | 10-JAN-2011 | 12:20:09.512 | 12:22:52.562 | 163.05000 |
| MS | 82219 | 10-JAN-2011 | 21:51:51.567 | 21:53:53.101 | 121.53400 |
| MS | 82220 | 10-JAN-2011 | 23:29:13.237 | 23:31:47.704 | 154.46700 |
| MA | 82211 | 10-JAN-2011 | 08:56:50.469 | 08:59:16.796 | 146.32700 |
| MA | 82212 | 10-JAN-2011 | 10:35:32.501 | 10:37:35.411 | 122.91000 |
| SG | 82207 | 10-JAN-2011 | 02:26:01.547 | 02:28:32.380 | 150.83300 |
| SG | 82208 | 10-JAN-2011 | 04:04:09.140 | 04:06:43.492 | 154.35200 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| SG | 82214 | 10-JAN-2011 | 14:59:32.893 | 15:03:46.057 | 253.16400 |
| SG | 82215 | 10-JAN-2011 | 16:40:25.429 | 16:43:21.178 | 175.74900 |

[[BACK TO MENU](#)]

1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 82206 | 10-JAN-2011 | 00:55:21.546 | 01:09:00.232 | 818.68600 |
| MM | 82206 | 10-JAN-2011 | 01:07:11.988 | 01:17:34.001 | 622.01300 |
| KS | 82206 | 10-JAN-2011 | 00:19:08.034 | 00:22:13.762 | 185.72800 |
| BE | 82207 | 10-JAN-2011 | 02:13:45.563 | 02:26:14.534 | 748.97100 |
| MM | 82207 | 10-JAN-2011 | 02:49:53.563 | 02:57:59.923 | 486.36000 |
| MI | 82207 | 10-JAN-2011 | 01:47:35.463 | 01:52:38.099 | 302.63600 |
| GS | 82207 | 10-JAN-2011 | 01:48:20.584 | 02:01:00.415 | 759.83100 |
| BE | 82208 | 10-JAN-2011 | 03:53:06.529 | 04:05:32.594 | 746.06500 |
| MM | 82208 | 10-JAN-2011 | 04:32:58.070 | 04:39:02.177 | 364.10700 |
| MI | 82208 | 10-JAN-2011 | 03:21:56.220 | 03:35:17.941 | 801.72100 |
| CM | 82208 | 10-JAN-2011 | 03:21:41.266 | 03:32:48.808 | 667.54200 |
| CM | 82208 | 10-JAN-2011 | 05:01:21.802 | 05:11:32.944 | 611.14200 |
| MM | 82209 | 10-JAN-2011 | 06:15:08.126 | 06:21:20.438 | 372.31200 |
| MI | 82209 | 10-JAN-2011 | 05:04:57.307 | 05:11:37.215 | 399.90800 |
| MM | 82210 | 10-JAN-2011 | 07:56:05.055 | 08:04:25.749 | 500.69400 |
| JO | 82210 | 10-JAN-2011 | 07:33:39.416 | 07:47:50.739 | 851.32300 |
| MM | 82211 | 10-JAN-2011 | 09:36:28.554 | 09:47:02.068 | 633.51400 |
| JO | 82211 | 10-JAN-2011 | 09:13:23.087 | 09:26:43.724 | 800.63700 |
| HO | 82212 | 10-JAN-2011 | 11:26:47.400 | 11:38:07.308 | 679.90800 |
| MM | 82212 | 10-JAN-2011 | 11:16:35.913 | 11:28:37.071 | 721.15800 |
| HO | 82213 | 10-JAN-2011 | 13:05:03.806 | 13:19:53.130 | 889.32400 |
| MM | 82213 | 10-JAN-2011 | 12:56:29.821 | 13:09:09.027 | 759.20600 |
| HO | 82214 | 10-JAN-2011 | 14:45:30.911 | 14:55:43.007 | 612.09600 |
| MM | 82214 | 10-JAN-2011 | 14:36:08.869 | 14:48:51.298 | 762.42900 |
| GS | 82214 | 10-JAN-2011 | 13:58:56.400 | 14:06:24.181 | 447.78100 |
| SG | 82214 | 10-JAN-2011 | 14:59:32.893 | 15:12:58.604 | 805.71100 |
| BE | 82215 | 10-JAN-2011 | 15:10:30.470 | 15:22:18.339 | 707.86900 |
| MM | 82215 | 10-JAN-2011 | 16:15:31.581 | 16:28:05.353 | 753.77200 |
| MI | 82215 | 10-JAN-2011 | 15:42:08.473 | 15:55:22.733 | 794.26000 |
| GS | 82215 | 10-JAN-2011 | 15:36:12.640 | 15:50:00.829 | 828.18900 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| CM | 82215 | 10-JAN-2011 | 15:45:26.865 | 15:56:41.137 | 674.27200 |
| MM | 82216 | 10-JAN-2011 | 17:54:41.504 | 18:07:14.066 | 752.56200 |
| MI | 82216 | 10-JAN-2011 | 17:22:58.625 | 17:32:10.715 | 552.09000 |
| GS | 82216 | 10-JAN-2011 | 17:16:03.276 | 17:28:09.123 | 725.84700 |
| CM | 82216 | 10-JAN-2011 | 17:25:06.592 | 17:35:11.538 | 604.94600 |
| MM | 82217 | 10-JAN-2011 | 19:33:52.337 | 19:46:33.216 | 760.87900 |
| JO | 82217 | 10-JAN-2011 | 19:53:44.888 | 20:07:23.397 | 818.50900 |
| MM | 82218 | 10-JAN-2011 | 21:13:26.446 | 21:26:08.608 | 762.16200 |
| MA | 82218 | 10-JAN-2011 | 20:11:59.716 | 20:25:42.265 | 822.54900 |
| JO | 82218 | 10-JAN-2011 | 21:32:49.876 | 21:46:48.570 | 838.69400 |
| HO | 82219 | 10-JAN-2011 | 22:45:17.835 | 22:58:18.157 | 780.32200 |
| MM | 82219 | 10-JAN-2011 | 22:53:46.268 | 23:05:59.510 | 733.24200 |
| MA | 82219 | 10-JAN-2011 | 21:52:54.124 | 22:04:22.033 | 687.90900 |

[[BACK TO MENU](#)]

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 |

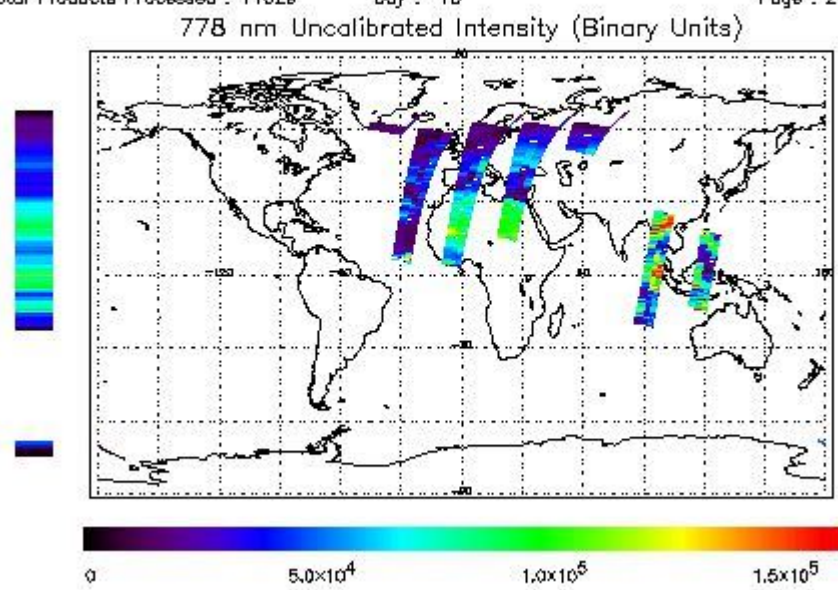
| | |
|--------------------------------------|----|
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected Temperature B | OK |
| Selected Temperature C | OK |
| Channel 1 Summation | OK |
| Channel 2 Summation | OK |
| Channel 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 : 10-JAN-2011 00:03:28.490 : ORBIT : 82206.0200
 Last Product : 10-JAN-2011 23:45:11.791 : ORBIT : 82220.1528
 Total Products Processed : 11629 Day : 10 Page : 21



Ozone Line Ratio

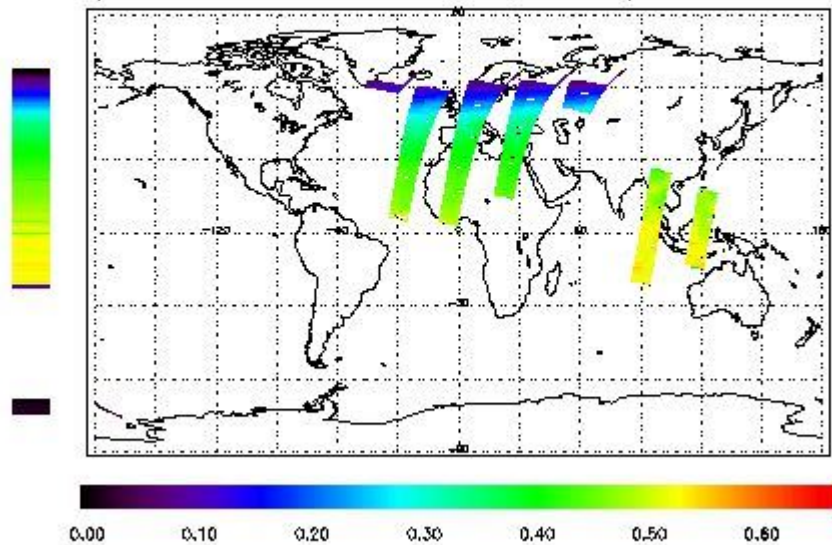
First Product : 10-JAN-2011 00:03:28.490 : ORBIT : 82206.0200

Last Product : 10-JAN-2011 23:45:11.791 : ORBIT : 82220.1528

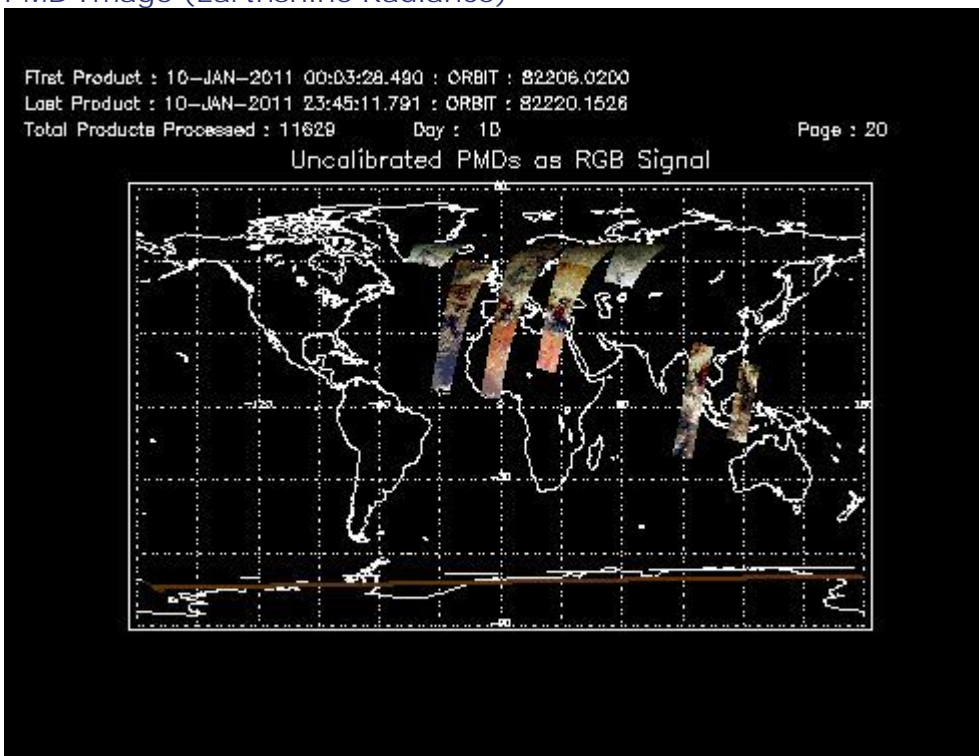
Total Products Processed : 11629 Day : 10

Page : 20

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 | 12:16:01.518 | -- | 82213 | Yes | -- | 15822 |

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) |
|-----------------------|------------|----------|-------|---------------------------|------------------------------------|---------------------------------------|--------------------------|
| -- | -- | -- | -- | -- | -- | -- | -- |

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 |
|------------|----------|-------------|-----------|---------------------------|----------------|----------------|----------------|----------------|
| -- | -- | -- | -- | -- | -- | -- | -- | -- |

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 |
|------------|----------|-------------|-----------|
| -- | -- | -- | -- |

[[BACK TO MENU](#)]

(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