

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|---|
| Report Version | GOMEver3_3 |
| Report of Day | 27-NOV-2010 |
| Start Time of First Product | 23:45:59 (26-Nov) |
| Stop Time of Last Product | 23:38:27 |
| Number of EGOI Products analysed | 31 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | no solar calibration measurements available due to the execution of an ERS2 orbit manoeuvre |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_101127CMEP2104.E2 | 27-NOV-2010 | 03:06:44.920 |
| EGOI_101127CMEP2112.E2 | 27-NOV-2010 | 04:47:51.547 |
| EGOI_101127CMEP2122.E2 | 27-NOV-2010 | 15:30:27.024 |
| EGOI_101127CMEP2126.E2 | 27-NOV-2010 | 17:09:02.138 |
| EGOI_101127HLEP8556.E2 | 27-NOV-2010 | 11:14:40.441 |
| EGOI_101127KSEP3270.E2 | 27-NOV-2010 | 06:53:20.825 |
| EGOI_101127KSEP3288.E2 | 27-NOV-2010 | 08:33:18.444 |
| EGOI_101127KSEP3310.E2 | 27-NOV-2010 | 10:12:58.060 |
| EGOI_101127KSEP3332.E2 | 27-NOV-2010 | 11:52:33.172 |

| | | |
|------------------------|-------------|--------------|
| EGOI_101127KSEP3348.E2 | 27-NOV-2010 | 13:31:29.288 |
| EGOI_101127KSEP3373.E2 | 27-NOV-2010 | 15:10:01.399 |
| EGOI_101127KSEP3392.E2 | 27-NOV-2010 | 16:47:39.504 |
| EGOI_101127KSEP3421.E2 | 27-NOV-2010 | 18:25:32.608 |
| EGOI_101127KSEP3451.E2 | 27-NOV-2010 | 20:04:16.720 |
| EGOI_101127KSEP3480.E2 | 27-NOV-2010 | 21:45:18.851 |
| EGOI_101127KSEP3504.E2 | 27-NOV-2010 | 23:29:14.990 |
| EGOI_101127MAEP0212.E2 | 27-NOV-2010 | 08:40:57.487 |
| EGOI_101127MAEP0223.E2 | 27-NOV-2010 | 10:20:01.098 |
| EGOI_101127MAEP0244.E2 | 27-NOV-2010 | 19:58:00.180 |
| EGOI_101127MIEP6305.E2 | 27-NOV-2010 | 03:07:22.424 |
| EGOI_101127MIEP6330.E2 | 27-NOV-2010 | 04:48:39.551 |
| EGOI_101127MIEP6340.E2 | 27-NOV-2010 | 15:27:42.009 |
| EGOI_101127MIEP6362.E2 | 27-NOV-2010 | 17:07:39.629 |
| EGOI_101127MSEP7948.E2 | 26-NOV-2010 | 23:45:58.678 |
| EGOI_101127MSEP7967.E2 | 27-NOV-2010 | 10:27:31.148 |
| EGOI_101127MSEP7996.E2 | 27-NOV-2010 | 12:05:24.259 |
| EGOI_101127MSEP8005.E2 | 27-NOV-2010 | 13:48:21.890 |
| EGOI_101127MSEP8029.E2 | 27-NOV-2010 | 21:37:39.804 |
| EGOI_101127MSEP8061.E2 | 27-NOV-2010 | 23:14:28.404 |
| EGOI_101127SGEP9713.E2 | 27-NOV-2010 | 14:47:23.758 |
| EGOI_101127SGEP9719.E2 | 27-NOV-2010 | 16:25:13.863 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 81580 | 27-NOV-2010 | 06:51:26.930 | 06:53:20.824 | 113.89400 |
| KS | 81581 | 27-NOV-2010 | 08:30:50.218 | 08:33:18.443 | 148.22500 |
| KS | 81582 | 27-NOV-2010 | 10:10:27.894 | 10:12:58.060 | 150.16600 |
| KS | 81583 | 27-NOV-2010 | 11:49:57.006 | 11:52:33.171 | 156.16500 |
| KS | 81584 | 27-NOV-2010 | 13:28:59.553 | 13:31:29.288 | 149.73500 |
| KS | 81585 | 27-NOV-2010 | 15:07:26.940 | 15:10:01.398 | 154.45800 |
| KS | 81586 | 27-NOV-2010 | 16:45:03.691 | 16:47:39.504 | 155.81300 |
| KS | 81587 | 27-NOV-2010 | 18:23:01.203 | 18:25:32.608 | 151.40500 |
| KS | 81588 | 27-NOV-2010 | 20:02:11.162 | 20:04:16.719 | 125.55700 |
| KS | 81589 | 27-NOV-2010 | 21:43:12.840 | 21:45:18.851 | 126.01100 |
| KS | 81590 | 27-NOV-2010 | 23:26:52.886 | 23:29:14.990 | 142.10400 |
| MS | 81582 | 27-NOV-2010 | 10:24:53.842 | 10:27:31.147 | 157.30500 |
| MS | 81583 | 27-NOV-2010 | 12:02:55.692 | 12:05:24.258 | 148.56600 |
| MS | 81590 | 27-NOV-2010 | 23:12:04.367 | 23:14:28.404 | 144.03700 |
| MA | 81581 | 27-NOV-2010 | 08:39:42.579 | 08:40:57.487 | 74.908000 |

| | | | | | |
|---------|-------|-------------|--------------|--------------|-----------|
| MA | 81582 | 27-NOV-2010 | 10:18:32.230 | 10:20:01.097 | 88.867000 |
| MA | 81588 | 27-NOV-2010 | 19:55:19.908 | 19:58:00.180 | 160.27200 |
| MI | 81578 | 27-NOV-2010 | 03:05:05.525 | 03:07:22.423 | 136.89800 |
| MI | 81579 | 27-NOV-2010 | 04:46:21.035 | 04:48:39.551 | 138.51600 |
| MI | 81585 | 27-NOV-2010 | 15:25:19.557 | 15:27:42.008 | 142.45100 |
| MI | 81586 | 27-NOV-2010 | 17:05:16.314 | 17:07:39.629 | 143.31500 |
| SG | 81584 | 27-NOV-2010 | 14:42:58.400 | 14:47:23.758 | 265.35800 |
| SG | 81585 | 27-NOV-2010 | 16:22:31.135 | 16:25:13.862 | 162.72700 |
| CM | 81578 | 27-NOV-2010 | 03:05:26.845 | 03:06:44.919 | 78.074000 |
| CM | 81585 | 27-NOV-2010 | 15:29:03.737 | 15:30:27.023 | 83.286000 |
| CM | 81586 | 27-NOV-2010 | 17:07:34.583 | 17:09:02.137 | 87.554000 |
| Missing | dat | GS | and | | |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 81576 | 27-NOV-2010 | 00:37:54.299 | 00:52:11.173 | 856.87400 |
| MM | 81576 | 27-NOV-2010 | 00:49:41.351 | 01:00:22.915 | 641.56400 |
| KS | 81576 | 27-NOV-2010 | 00:00:21.745 | 00:05:49.729 | 327.98400 |
| BE | 81577 | 27-NOV-2010 | 01:57:01.878 | 02:08:38.125 | 696.24700 |
| MM | 81577 | 27-NOV-2010 | 02:32:14.024 | 02:40:45.199 | 511.17500 |
| GS | 81577 | 27-NOV-2010 | 01:31:51.918 | 01:43:46.136 | 714.21800 |
| SG | 81577 | 27-NOV-2010 | 02:10:11.599 | 02:18:58.220 | 526.62100 |
| BE | 81578 | 27-NOV-2010 | 03:35:54.541 | 03:48:53.338 | 778.79700 |
| MM | 81578 | 27-NOV-2010 | 04:15:19.452 | 04:21:38.556 | 379.10400 |
| GS | 81578 | 27-NOV-2010 | 03:09:49.599 | 03:23:40.565 | 830.96600 |
| SG | 81578 | 27-NOV-2010 | 03:46:51.042 | 04:00:29.689 | 818.64700 |
| MM | 81579 | 27-NOV-2010 | 05:57:43.496 | 06:03:42.498 | 359.00200 |
| MM | 81580 | 27-NOV-2010 | 07:38:49.971 | 07:46:45.866 | 475.89500 |
| JO | 81580 | 27-NOV-2010 | 07:17:10.585 | 07:30:30.877 | 800.29200 |
| MM | 81581 | 27-NOV-2010 | 09:19:17.306 | 09:29:30.674 | 613.36800 |
| JO | 81581 | 27-NOV-2010 | 08:55:50.339 | 09:10:04.661 | 854.32200 |
| MM | 81582 | 27-NOV-2010 | 10:59:27.023 | 11:11:16.889 | 709.86600 |
| MM | 81583 | 27-NOV-2010 | 12:39:23.296 | 12:51:59.015 | 755.71900 |
| HO | 81584 | 27-NOV-2010 | 14:28:08.985 | 14:40:10.301 | 721.31600 |
| MM | 81584 | 27-NOV-2010 | 14:19:05.030 | 14:31:48.430 | 763.40000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| SG | 81584 | 27-NOV-2010 | 14:42:58.400 | 14:55:35.189 | 756.78900 |
| BE | 81585 | 27-NOV-2010 | 14:52:56.540 | 15:05:33.147 | 756.60700 |
| MM | 81585 | 27-NOV-2010 | 15:58:30.523 | 16:11:05.630 | 755.10700 |
| GS | 81585 | 27-NOV-2010 | 15:19:15.591 | 15:32:44.463 | 808.87200 |
| MM | 81586 | 27-NOV-2010 | 17:37:41.973 | 17:50:13.846 | 751.87300 |
| GS | 81586 | 27-NOV-2010 | 16:58:49.729 | 17:11:38.515 | 768.78600 |
| MM | 81587 | 27-NOV-2010 | 19:16:51.213 | 19:29:30.543 | 759.33000 |
| JO | 81587 | 27-NOV-2010 | 19:37:14.051 | 19:49:39.950 | 745.89900 |
| MM | 81588 | 27-NOV-2010 | 20:56:19.625 | 21:09:03.093 | 763.46800 |
| JO | 81588 | 27-NOV-2010 | 21:15:35.061 | 21:30:11.367 | 876.30600 |
| HO | 81589 | 27-NOV-2010 | 22:28:52.388 | 22:41:06.923 | 734.53500 |
| MM | 81589 | 27-NOV-2010 | 22:36:30.260 | 22:48:51.494 | 741.23400 |
| MA | 81589 | 27-NOV-2010 | 21:34:46.502 | 21:47:38.590 | 772.08800 |

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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 |

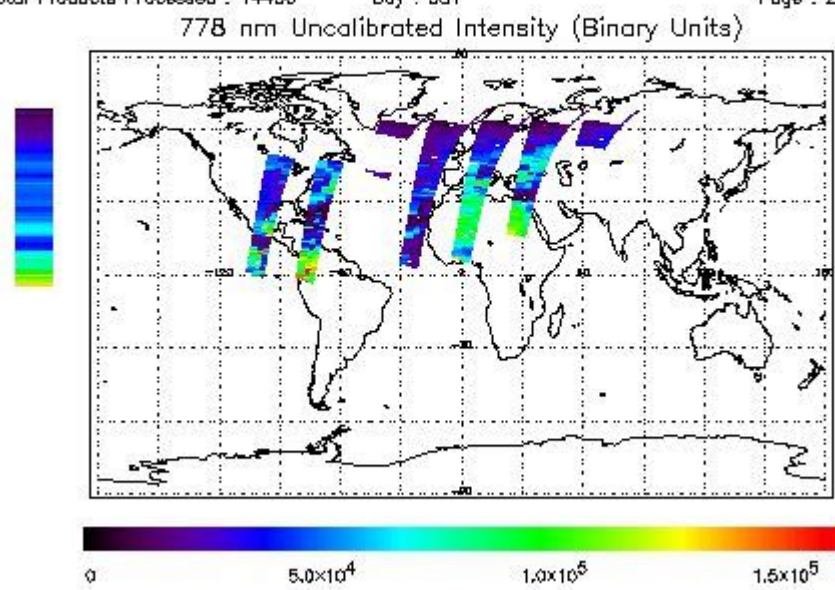
| | |
|--------------------------------------|----|
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected Temperature B | OK |
| Selected Temperature C | OK |
| Channel 1 Summation | OK |
| Channel 2 Summation | OK |
| Channel 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 : 26-NOV-2010 23:45:58.678 : ORBIT : 81576.0175
 Last Product : 27-NOV-2010 23:38:27.044 : ORBIT : 81590.2570
 Total Products Processed : 14450 Day : 331 Page : 21

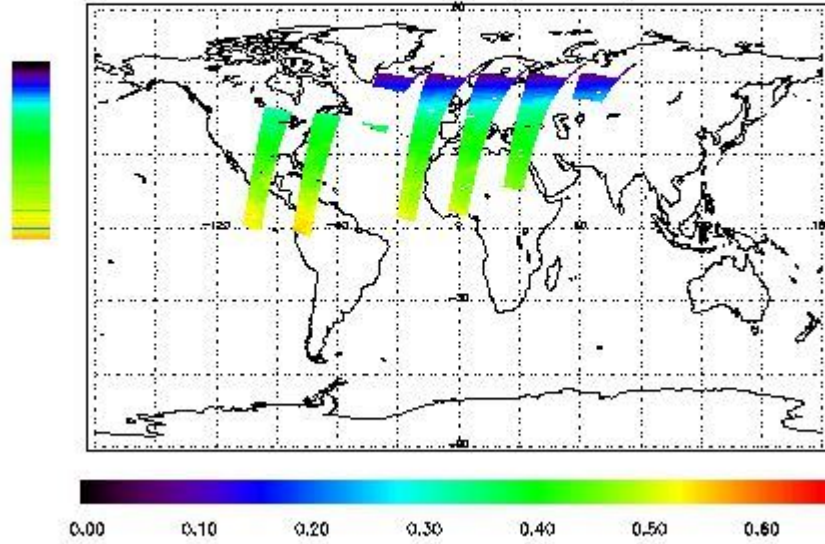


Ozone Line Ratio

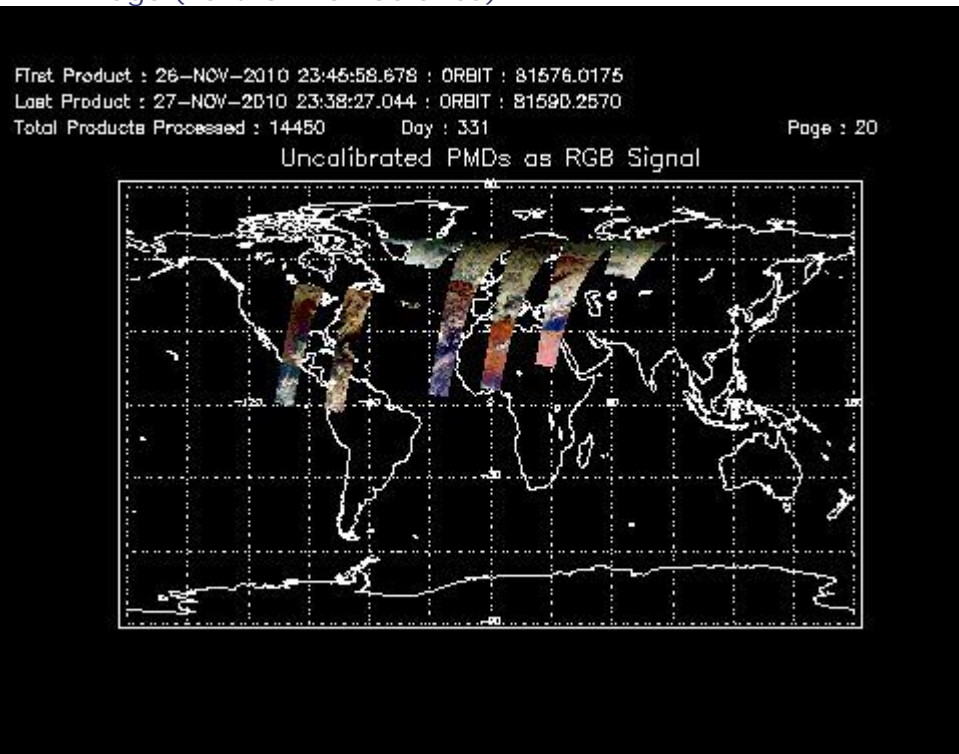
First Product : 26-NOV-2010 23:45:58.678 : ORBIT : 81576.0175
 Last Product : 27-NOV-2010 23:38:27.044 : ORBIT : 81590.2570
 Total Products Processed : 14450 Day : 331

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

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

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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