

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 26-OCT-2010 |
| Start Time of First Product | 00:56:54 |
| Stop Time of Last Product | 23:44:01 |
| Number of EGOI Products analysed | 38 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_101026CMEP1134.E2 | 26-OCT-2010 | 03:12:04.925 |
| EGOI_101026CMEP1144.E2 | 26-OCT-2010 | 04:53:47.555 |
| EGOI_101026CMEP1151.E2 | 26-OCT-2010 | 15:35:50.007 |
| EGOI_101026CMEP1159.E2 | 26-OCT-2010 | 17:14:46.114 |
| EGOI_101026GSEP7999.E2 | 26-OCT-2010 | 01:39:11.857 |
| EGOI_101026GSEP8027.E2 | 26-OCT-2010 | 03:17:27.460 |
| EGOI_101026GSEP8036.E2 | 26-OCT-2010 | 05:00:23.594 |
| EGOI_101026HLEP8244.E2 | 26-OCT-2010 | 22:36:39.098 |
| EGOI_101026KSEP5169.E2 | 26-OCT-2010 | 06:58:55.820 |

| | | |
|------------------------|-------------|--------------|
| EGOI_101026KSEP5188.E2 | 26-OCT-2010 | 08:38:54.936 |
| EGOI_101026KSEP5208.E2 | 26-OCT-2010 | 10:18:34.550 |
| EGOI_101026KSEP5229.E2 | 26-OCT-2010 | 11:58:06.663 |
| EGOI_101026KSEP5246.E2 | 26-OCT-2010 | 13:37:02.774 |
| EGOI_101026KSEP5271.E2 | 26-OCT-2010 | 15:15:40.885 |
| EGOI_101026KSEP5284.E2 | 26-OCT-2010 | 16:53:09.980 |
| EGOI_101026KSEP5313.E2 | 26-OCT-2010 | 18:31:03.088 |
| EGOI_101026KSEP5345.E2 | 26-OCT-2010 | 20:09:50.193 |
| EGOI_101026KSEP5373.E2 | 26-OCT-2010 | 21:50:58.316 |
| EGOI_101026KSEP5390.E2 | 26-OCT-2010 | 23:34:25.958 |
| EGOI_101026MAEP8873.E2 | 26-OCT-2010 | 08:46:39.986 |
| EGOI_101026MAEP8885.E2 | 26-OCT-2010 | 10:26:04.598 |
| EGOI_101026MIEP4364.E2 | 26-OCT-2010 | 04:54:40.059 |
| EGOI_101026MIEP4385.E2 | 26-OCT-2010 | 15:33:12.491 |
| EGOI_101026MIEP4413.E2 | 26-OCT-2010 | 17:13:29.606 |
| EGOI_101026MMEP7487.E2 | 26-OCT-2010 | 00:56:53.591 |
| EGOI_101026MMEP7493.E2 | 26-OCT-2010 | 02:39:13.721 |
| EGOI_101026MMEP7503.E2 | 26-OCT-2010 | 12:46:32.460 |
| EGOI_101026MMEP7512.E2 | 26-OCT-2010 | 14:26:33.075 |
| EGOI_101026MMEP7518.E2 | 26-OCT-2010 | 16:05:47.191 |
| EGOI_101026MMEP7525.E2 | 26-OCT-2010 | 17:45:53.806 |
| EGOI_101026MSEP4198.E2 | 26-OCT-2010 | 10:32:52.638 |
| EGOI_101026MSEP4227.E2 | 26-OCT-2010 | 12:11:08.245 |
| EGOI_101026MSEP4254.E2 | 26-OCT-2010 | 21:42:59.769 |
| EGOI_101026MSEP4286.E2 | 26-OCT-2010 | 23:19:57.364 |
| EGOI_101026SGEP8891.E2 | 26-OCT-2010 | 02:17:33.088 |
| EGOI_101026SGEP8899.E2 | 26-OCT-2010 | 03:54:42.687 |
| EGOI_101026SGEP8905.E2 | 26-OCT-2010 | 14:52:57.244 |
| EGOI_101026SGEP8910.E2 | 26-OCT-2010 | 16:31:06.843 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 81122 | 26-OCT-2010 | 06:57:06.402 | 06:58:55.820 | 109.41800 |
| KS | 81123 | 26-OCT-2010 | 08:36:31.721 | 08:38:54.936 | 143.21500 |
| KS | 81124 | 26-OCT-2010 | 10:16:09.376 | 10:18:34.550 | 145.17400 |
| KS | 81125 | 26-OCT-2010 | 11:55:37.483 | 11:58:06.663 | 149.18000 |
| KS | 81126 | 26-OCT-2010 | 13:34:37.913 | 13:37:02.773 | 144.86000 |
| KS | 81127 | 26-OCT-2010 | 15:12:59.916 | 15:15:40.885 | 160.96900 |
| KS | 81128 | 26-OCT-2010 | 16:50:36.958 | 16:53:09.979 | 153.02100 |
| KS | 81129 | 26-OCT-2010 | 18:28:38.849 | 18:31:03.088 | 144.23900 |
| KS | 81130 | 26-OCT-2010 | 20:07:54.185 | 20:09:50.193 | 116.00800 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| KS | 81131 | 26-OCT-2010 | 21:49:03.398 | 21:50:58.315 | 114.91700 |
| KS | 81132 | 26-OCT-2010 | 23:32:55.204 | 23:34:25.958 | 90.754000 |
| GS | 81119 | 26-OCT-2010 | 01:37:20.530 | 01:39:11.856 | 111.32600 |
| GS | 81120 | 26-OCT-2010 | 03:15:33.459 | 03:17:27.460 | 114.00100 |
| MS | 81124 | 26-OCT-2010 | 10:30:22.546 | 10:32:52.638 | 150.09200 |
| MS | 81125 | 26-OCT-2010 | 12:08:38.372 | 12:11:08.244 | 149.87200 |
| MS | 81132 | 26-OCT-2010 | 23:17:46.112 | 23:19:57.364 | 131.25200 |
| MA | 81123 | 26-OCT-2010 | 08:45:29.593 | 08:46:39.986 | 70.393000 |
| MA | 81124 | 26-OCT-2010 | 10:24:11.882 | 10:26:04.598 | 112.71600 |
| MI | 81121 | 26-OCT-2010 | 04:52:27.530 | 04:54:40.058 | 132.52800 |
| MI | 81127 | 26-OCT-2010 | 15:30:54.865 | 15:33:12.490 | 137.62500 |
| MI | 81128 | 26-OCT-2010 | 17:11:08.525 | 17:13:29.606 | 141.08100 |
| MM | 81118 | 26-OCT-2010 | 00:55:31.355 | 00:56:53.591 | 82.236000 |
| MM | 81119 | 26-OCT-2010 | 02:38:07.094 | 02:39:13.720 | 66.626000 |
| MM | 81125 | 26-OCT-2010 | 12:45:05.518 | 12:46:32.460 | 86.942000 |
| MM | 81126 | 26-OCT-2010 | 14:24:46.364 | 14:26:33.075 | 106.71100 |
| MM | 81126 | 26-OCT-2010 | 14:31:58.614 | 14:37:29.486 | 330.87200 |
| MM | 81127 | 26-OCT-2010 | 16:04:10.923 | 16:05:47.191 | 96.268000 |
| MM | 81128 | 26-OCT-2010 | 17:43:21.823 | 17:45:53.805 | 151.98200 |
| SG | 81119 | 26-OCT-2010 | 02:15:24.256 | 02:17:33.087 | 128.83100 |
| SG | 81119 | 26-OCT-2010 | 02:23:36.122 | 02:25:04.207 | 88.085000 |
| SG | 81120 | 26-OCT-2010 | 03:52:35.743 | 03:54:42.686 | 126.94300 |
| SG | 81120 | 26-OCT-2010 | 04:02:29.232 | 04:06:04.532 | 215.30000 |
| SG | 81126 | 26-OCT-2010 | 14:48:28.303 | 14:52:57.243 | 268.94000 |
| SG | 81127 | 26-OCT-2010 | 16:28:26.545 | 16:31:06.842 | 160.29700 |
| CM | 81120 | 26-OCT-2010 | 03:10:49.353 | 03:12:04.925 | 75.572000 |
| CM | 81127 | 26-OCT-2010 | 15:34:29.266 | 15:35:50.006 | 80.740000 |
| CM | 81128 | 26-OCT-2010 | 17:13:23.632 | 17:14:46.114 | 82.482000 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 81118 | 26-OCT-2010 | 00:43:42.226 | 00:57:48.118 | 845.89200 |
| MS | 81118 | 25-OCT-2010 | 23:49:28.187 | 00:02:08.593 | 760.40600 |
| KS | 81118 | 26-OCT-2010 | 00:06:32.956 | 00:11:21.467 | 288.51100 |
| BE | 81119 | 26-OCT-2010 | 02:02:35.520 | 02:14:31.741 | 716.22100 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| BE | 81120 | 26-OCT-2010 | 03:41:38.073 | 03:54:27.459 | 769.38600 |
| MM | 81120 | 26-OCT-2010 | 04:21:12.492 | 04:27:26.173 | 373.68100 |
| MI | 81120 | 26-OCT-2010 | 03:10:41.161 | 03:23:54.024 | 792.86300 |
| MM | 81121 | 26-OCT-2010 | 06:03:31.977 | 06:09:34.947 | 362.97000 |
| MM | 81122 | 26-OCT-2010 | 07:44:35.108 | 07:52:39.255 | 484.14700 |
| JO | 81122 | 26-OCT-2010 | 07:22:38.812 | 07:36:18.344 | 819.53200 |
| MM | 81123 | 26-OCT-2010 | 09:25:01.106 | 09:35:21.342 | 620.23600 |
| JO | 81123 | 26-OCT-2010 | 09:01:39.755 | 09:15:38.796 | 839.04100 |
| MM | 81124 | 26-OCT-2010 | 11:05:10.029 | 11:17:03.828 | 713.79900 |
| HO | 81126 | 26-OCT-2010 | 14:33:55.633 | 14:45:36.027 | 700.39400 |
| SG | 81126 | 26-OCT-2010 | 14:48:28.303 | 15:01:24.465 | 776.16200 |
| BE | 81127 | 26-OCT-2010 | 14:58:46.464 | 15:11:09.042 | 742.57800 |
| GS | 81127 | 26-OCT-2010 | 15:24:54.200 | 15:38:30.882 | 816.68200 |
| GS | 81128 | 26-OCT-2010 | 17:04:33.906 | 17:17:09.635 | 755.72900 |
| MM | 81129 | 26-OCT-2010 | 19:22:31.519 | 19:35:11.380 | 759.86100 |
| JO | 81129 | 26-OCT-2010 | 19:42:42.853 | 19:55:36.292 | 773.43900 |
| MM | 81130 | 26-OCT-2010 | 21:02:01.753 | 21:14:44.879 | 763.12600 |
| MA | 81130 | 26-OCT-2010 | 20:00:52.236 | 20:14:14.279 | 802.04300 |
| JO | 81130 | 26-OCT-2010 | 21:21:19.264 | 21:35:45.003 | 865.73900 |
| HO | 81131 | 26-OCT-2010 | 22:34:19.079 | 22:46:50.969 | 751.89000 |
| MM | 81131 | 26-OCT-2010 | 22:42:15.396 | 22:54:34.121 | 738.72500 |
| MA | 81131 | 26-OCT-2010 | 21:40:35.866 | 21:53:13.994 | 758.12800 |

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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 |

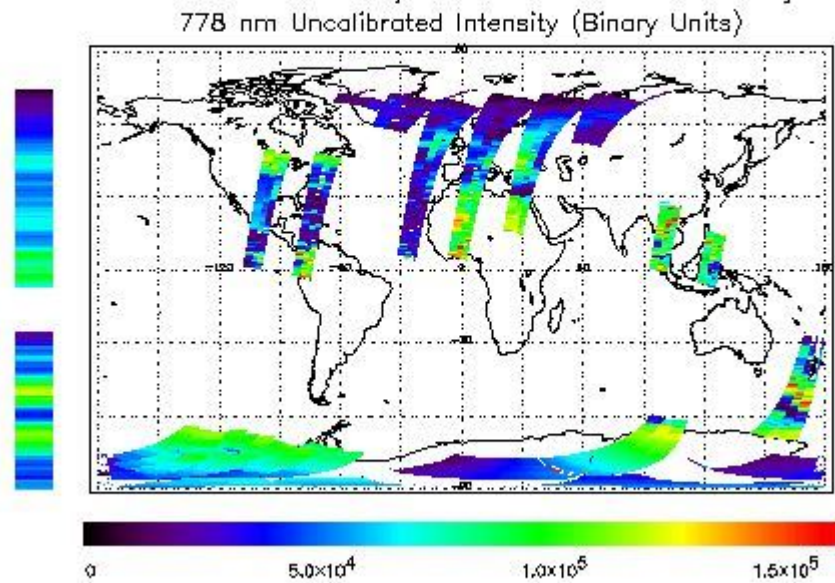
| | |
|--------------------------------------|---------------------|
| Integration Times Band 2A | OK |
| Integration Times Band 2B | OK |
| Integration Times Band 3 | OK |
| Integration Times Band 4 | OK |
| Scan Mirror position | Polar View operated |
| Polarization Detectors | OK |
| FPA Temperatures 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 explanation see the [GOME Performance Legend](#)

NEAR IR Intensity

First Product : 26-OCT-2010 00:56:53.501 : ORBIT : 81118.6653
 Last Product : 26-OCT-2010 23:44:00.516 : ORBIT : 81132.2551
 Total Products Processed : 18011 Day : 289 Page : 21



Ozone Line Ratio

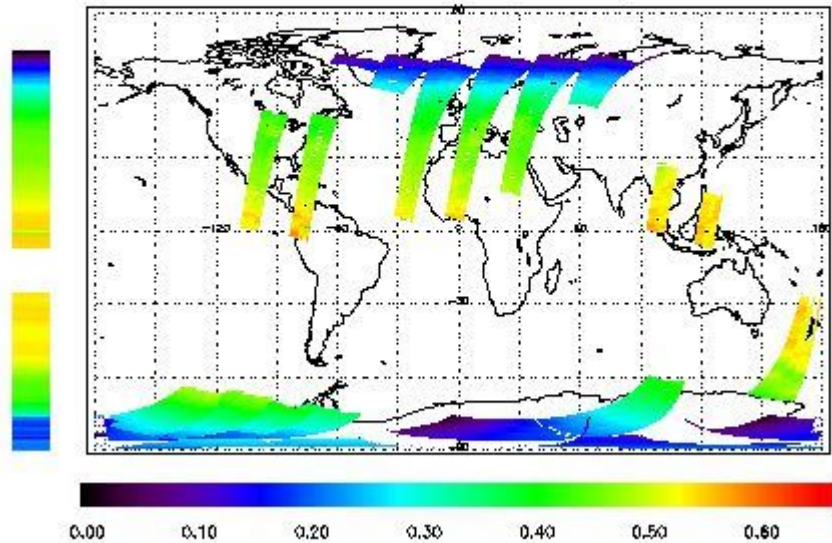
First Product : 26-OCT-2010 00:56:53.591 : ORBIT : 81118.6653

Last Product : 26-OCT-2010 23:44:00.516 : ORBIT : 81132.2551

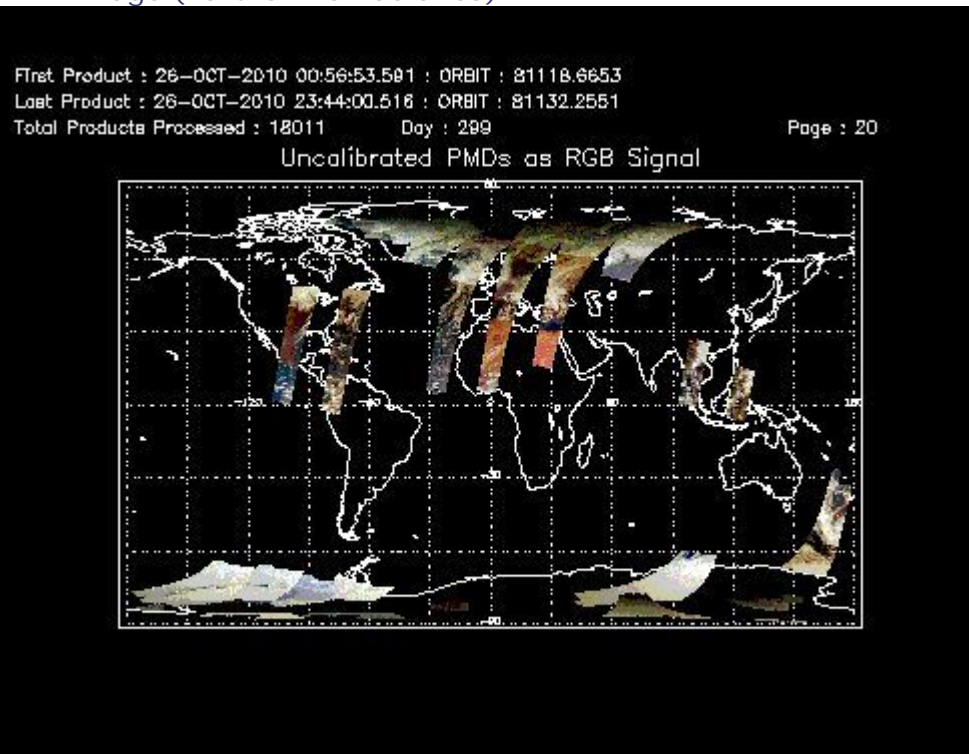
Total Products Processed : 18011 Day : 299

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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 | 12:01:30.689 | -- | 81145 | Yes | -- | 15419 |

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 |
|--------------|----------|-------------|-----------|
| 01:00 05-Sep | -- | 80388 | -- |

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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