

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 29-JAN-2011 |
| Start Time of First Product | 00:06:24 |
| Stop Time of Last Product | 23:48:02 |
| Number of EGOI Products analysed | 34 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_110129CMEP3595.E2 | 29-JAN-2011 | 03:25:55.734 |
| EGOI_110129CMEP3604.E2 | 29-JAN-2011 | 05:09:14.368 |
| EGOI_110129CMEP3613.E2 | 29-JAN-2011 | 15:49:46.842 |
| EGOI_110129CMEP3623.E2 | 29-JAN-2011 | 17:29:29.462 |
| EGOI_110129GSEP4629.E2 | 29-JAN-2011 | 01:52:56.650 |
| EGOI_110129GSEP4660.E2 | 29-JAN-2011 | 03:31:52.765 |
| EGOI_110129GSEP4670.E2 | 29-JAN-2011 | 05:14:48.903 |
| EGOI_110129KSEP8822.E2 | 29-JAN-2011 | 07:13:19.647 |
| EGOI_110129KSEP8840.E2 | 29-JAN-2011 | 08:53:18.762 |

| | | |
|------------------------|-------------|--------------|
| EGOI_110129KSEP8866.E2 | 29-JAN-2011 | 10:32:58.382 |
| EGOI_110129KSEP8891.E2 | 29-JAN-2011 | 12:12:22.997 |
| EGOI_110129KSEP8907.E2 | 29-JAN-2011 | 13:51:20.610 |
| EGOI_110129KSEP8920.E2 | 29-JAN-2011 | 15:29:45.217 |
| EGOI_110129KSEP8937.E2 | 29-JAN-2011 | 17:07:12.821 |
| EGOI_110129KSEP8966.E2 | 29-JAN-2011 | 18:45:14.931 |
| EGOI_110129KSEP8997.E2 | 29-JAN-2011 | 20:24:18.542 |
| EGOI_110129KSEP9017.E2 | 29-JAN-2011 | 22:05:58.170 |
| EGOI_110129MAEP2314.E2 | 29-JAN-2011 | 09:00:54.805 |
| EGOI_110129MAEP2328.E2 | 29-JAN-2011 | 10:40:28.424 |
| EGOI_110129MAEP2348.E2 | 29-JAN-2011 | 21:57:46.118 |
| EGOI_110129MIEP1624.E2 | 29-JAN-2011 | 01:52:10.146 |
| EGOI_110129MIEP1651.E2 | 29-JAN-2011 | 03:27:12.242 |
| EGOI_110129MIEP1674.E2 | 29-JAN-2011 | 05:10:23.376 |
| EGOI_110129MIEP1700.E2 | 29-JAN-2011 | 15:47:19.827 |
| EGOI_110129MIEP1712.E2 | 29-JAN-2011 | 17:28:20.455 |
| EGOI_110129MSEP5249.E2 | 29-JAN-2011 | 00:06:24.488 |
| EGOI_110129MSEP5271.E2 | 29-JAN-2011 | 10:46:44.964 |
| EGOI_110129MSEP5299.E2 | 29-JAN-2011 | 12:25:44.077 |
| EGOI_110129MSEP5324.E2 | 29-JAN-2011 | 21:56:34.112 |
| EGOI_110129MSEP5349.E2 | 29-JAN-2011 | 23:34:54.219 |
| EGOI_110129SGEP1098.E2 | 29-JAN-2011 | 02:30:53.885 |
| EGOI_110129SGEP1105.E2 | 29-JAN-2011 | 04:09:29.000 |
| EGOI_110129SGEP1111.E2 | 29-JAN-2011 | 15:14:31.623 |
| EGOI_110129SGEP1117.E2 | 29-JAN-2011 | 16:49:20.212 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 82482 | 29-JAN-2011 | 07:11:16.176 | 07:13:19.646 | 123.47000 |
| KS | 82483 | 29-JAN-2011 | 08:50:45.602 | 08:53:18.761 | 153.15900 |
| KS | 82484 | 29-JAN-2011 | 10:30:22.938 | 10:32:58.381 | 155.44300 |
| KS | 82485 | 29-JAN-2011 | 12:09:48.277 | 12:12:22.996 | 154.71900 |
| KS | 82486 | 29-JAN-2011 | 13:48:43.192 | 13:51:20.610 | 157.41800 |
| KS | 82487 | 29-JAN-2011 | 15:26:52.612 | 15:29:45.217 | 172.60500 |
| KS | 82488 | 29-JAN-2011 | 17:04:34.643 | 17:07:12.820 | 158.17700 |
| KS | 82489 | 29-JAN-2011 | 18:42:44.053 | 18:45:14.930 | 150.87700 |
| KS | 82490 | 29-JAN-2011 | 20:22:13.382 | 20:24:18.542 | 125.16000 |
| KS | 82491 | 29-JAN-2011 | 22:03:42.048 | 22:05:58.169 | 136.12100 |
| KS | 82492 | 29-JAN-2011 | 23:48:06.104 | 23:51:21.321 | 195.21700 |
| GS | 82479 | 29-JAN-2011 | 01:51:06.169 | 01:52:56.650 | 110.48100 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| GS | 82480 | 29-JAN-2011 | 03:29:57.219 | 03:31:52.765 | 115.54600 |
| MS | 82478 | 29-JAN-2011 | 00:04:07.180 | 00:06:24.488 | 137.30800 |
| MS | 82484 | 29-JAN-2011 | 10:44:06.301 | 10:46:44.963 | 158.66200 |
| MS | 82485 | 29-JAN-2011 | 12:23:00.977 | 12:25:44.077 | 163.10000 |
| MS | 82491 | 29-JAN-2011 | 21:54:32.070 | 21:56:34.111 | 122.04100 |
| MS | 82492 | 29-JAN-2011 | 23:32:05.797 | 23:34:54.218 | 168.42100 |
| MA | 82484 | 29-JAN-2011 | 10:38:24.002 | 10:40:28.424 | 124.42200 |
| MA | 82491 | 29-JAN-2011 | 21:55:51.160 | 21:57:46.117 | 114.95700 |
| MI | 82479 | 29-JAN-2011 | 01:50:00.770 | 01:52:10.146 | 129.37600 |
| MI | 82480 | 29-JAN-2011 | 03:24:45.763 | 03:27:12.242 | 146.47900 |
| MI | 82481 | 29-JAN-2011 | 05:08:10.372 | 05:10:23.376 | 133.00400 |
| MI | 82487 | 29-JAN-2011 | 15:44:57.454 | 15:47:19.827 | 142.37300 |
| MI | 82488 | 29-JAN-2011 | 17:25:57.652 | 17:28:20.454 | 142.80200 |
| SG | 82479 | 29-JAN-2011 | 02:28:42.791 | 02:30:53.885 | 131.09400 |
| SG | 82479 | 29-JAN-2011 | 02:38:43.435 | 02:40:03.088 | 79.653000 |
| SG | 82480 | 29-JAN-2011 | 04:07:03.380 | 04:09:28.999 | 145.61900 |
| SG | 82480 | 29-JAN-2011 | 04:15:12.534 | 04:19:55.308 | 282.77400 |
| SG | 82487 | 29-JAN-2011 | 16:43:27.277 | 16:49:20.211 | 352.93400 |
| CM | 82480 | 29-JAN-2011 | 03:24:25.503 | 03:25:55.733 | 90.230000 |
| CM | 82487 | 29-JAN-2011 | 15:48:12.411 | 15:49:46.841 | 94.430000 |
| CM | 82488 | 29-JAN-2011 | 17:28:03.524 | 17:29:29.462 | 85.938000 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 82478 | 29-JAN-2011 | 00:58:16.114 | 01:11:47.918 | 811.80400 |
| MM | 82478 | 29-JAN-2011 | 01:10:07.275 | 01:20:25.894 | 618.61900 |
| KS | 82478 | 29-JAN-2011 | 00:22:22.252 | 00:24:51.690 | 149.43800 |
| BE | 82479 | 29-JAN-2011 | 02:16:33.579 | 02:29:09.380 | 755.80100 |
| MM | 82479 | 29-JAN-2011 | 02:52:50.241 | 03:00:52.467 | 482.22600 |
| BE | 82480 | 29-JAN-2011 | 03:55:58.947 | 04:08:18.213 | 739.26600 |
| MM | 82480 | 29-JAN-2011 | 04:35:54.346 | 04:41:56.345 | 361.99900 |
| MM | 82481 | 29-JAN-2011 | 06:18:02.002 | 06:24:16.922 | 374.92000 |
| MM | 82482 | 29-JAN-2011 | 07:58:57.478 | 08:07:22.306 | 504.82800 |
| JO | 82482 | 29-JAN-2011 | 07:36:25.381 | 07:50:43.347 | 857.96600 |
| MM | 82483 | 29-JAN-2011 | 09:39:20.385 | 09:49:57.119 | 636.73400 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| JO | 82483 | 29-JAN-2011 | 09:16:19.946 | 09:29:29.170 | 789.22400 |
| MM | 82484 | 29-JAN-2011 | 11:19:27.356 | 11:31:30.250 | 722.89400 |
| MM | 82485 | 29-JAN-2011 | 12:59:20.866 | 13:12:00.549 | 759.68300 |
| HO | 82486 | 29-JAN-2011 | 14:48:25.322 | 14:58:21.872 | 596.55000 |
| MM | 82486 | 29-JAN-2011 | 14:38:59.460 | 14:51:41.692 | 762.23200 |
| GS | 82486 | 29-JAN-2011 | 14:01:36.448 | 14:09:31.193 | 474.74500 |
| SG | 82486 | 29-JAN-2011 | 15:02:19.959 | 15:15:51.287 | 811.32800 |
| BE | 82487 | 29-JAN-2011 | 15:13:27.415 | 15:25:05.071 | 697.65600 |
| MM | 82487 | 29-JAN-2011 | 16:18:21.717 | 16:30:55.290 | 753.57300 |
| GS | 82487 | 29-JAN-2011 | 15:39:02.486 | 15:52:52.733 | 830.24700 |
| MM | 82488 | 29-JAN-2011 | 17:57:31.425 | 18:10:04.134 | 752.70900 |
| GS | 82488 | 29-JAN-2011 | 17:18:55.847 | 17:30:53.405 | 717.55800 |
| MM | 82489 | 29-JAN-2011 | 19:36:42.588 | 19:49:23.709 | 761.12100 |
| JO | 82489 | 29-JAN-2011 | 19:56:31.195 | 20:10:19.134 | 827.93900 |
| MM | 82490 | 29-JAN-2011 | 21:16:17.712 | 21:28:59.572 | 761.86000 |
| MA | 82490 | 29-JAN-2011 | 20:14:47.164 | 20:28:33.973 | 826.80900 |
| JO | 82490 | 29-JAN-2011 | 21:35:43.015 | 21:49:33.652 | 830.63700 |
| HO | 82491 | 29-JAN-2011 | 22:48:03.695 | 23:01:09.898 | 786.20300 |
| MM | 82491 | 29-JAN-2011 | 22:56:39.112 | 23:08:50.885 | 731.77300 |

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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 |

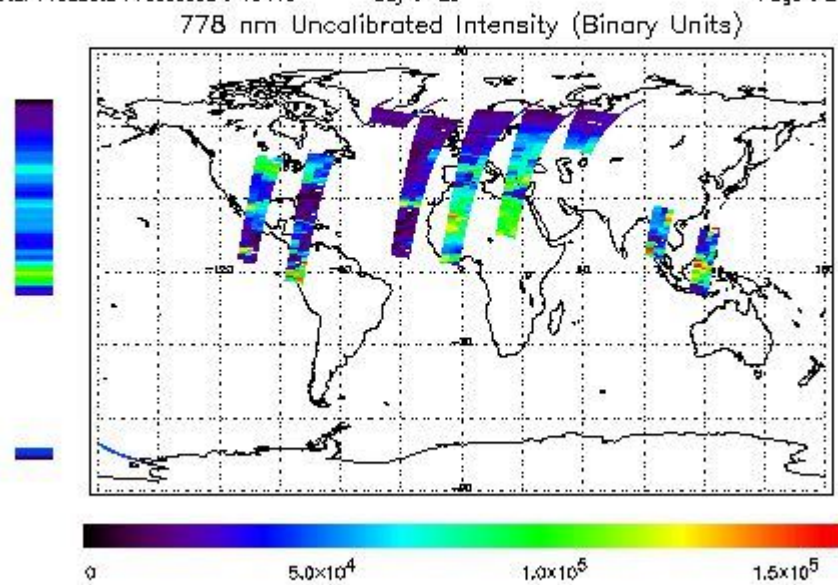
| | |
|--------------------------------------|----|
| Polarization Detectors | OK |
| FPA Temperatures A | OK |
| FPA Temperaturas B | OK |
| Charge Amp Temperatures | OK |
| Other Temperatures A | OK |
| DDHU Temperatures | OK |
| Optical Bench Temperatures | OK |
| Other Temperatures B | OK |
| Calibration 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 : 29-JAN-2011 00:06:24.488 : ORBIT : 82478.0206
 Last Product : 29-JAN-2011 23:48:01.797 : ORBIT : 82492.1522
 Total Products Processed : 15410 Day : 29 Page : 21

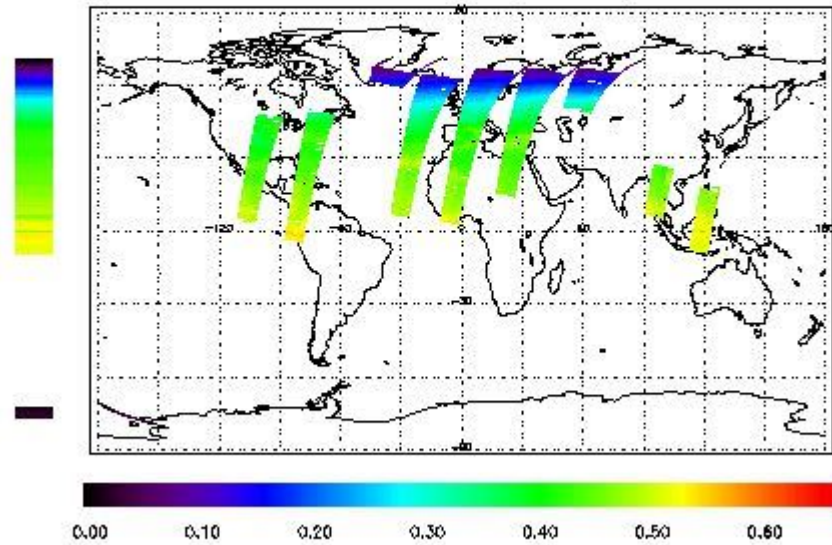


Ozone Line Ratio

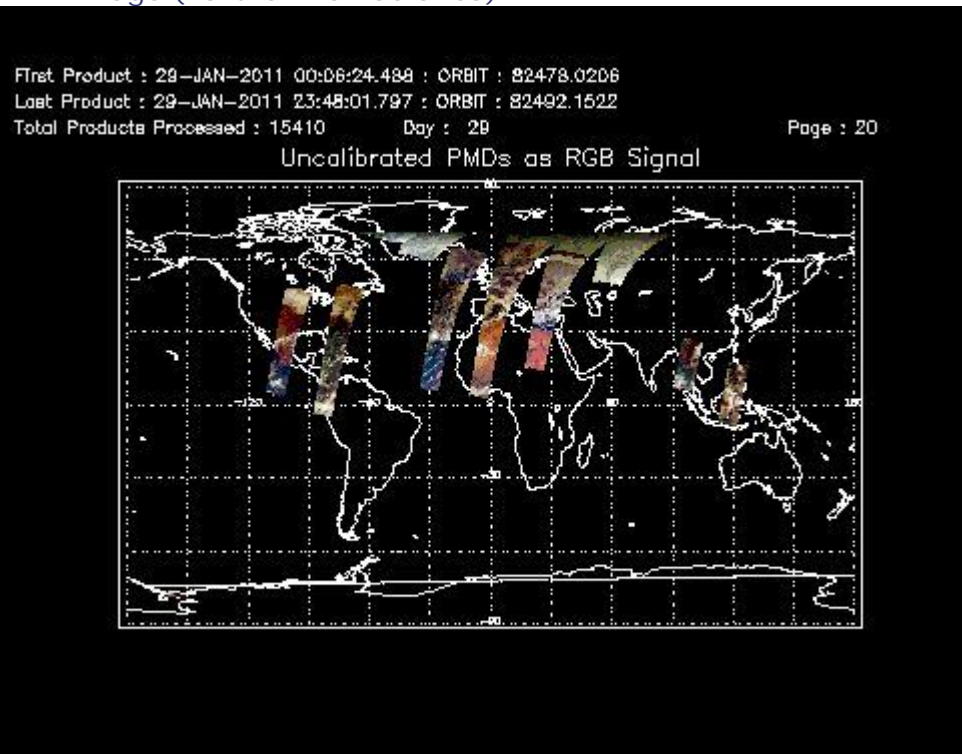
First Product : 29-JAN-2011 00:06:24.488 : ORBIT : 82478.0206
 Last Product : 29-JAN-2011 23:48:01.797 : ORBIT : 82492.1522
 Total Products Processed : 15410 Day : 29

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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 | 12:17:36.532 | -- | 82485 | Yes | -- | 14863 |

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

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