

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 16-JUN-2010 |
| Start Time of First Product | 00:03:49 |
| Stop Time of Last Product | 22:52:05 |
| Number of EGOI Products analysed | 27 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100616BEEP3040.E2 | 16-JUN-2010 | 02:52:01.870 |
| EGOI_100616BEEP3047.E2 | 16-JUN-2010 | 04:32:35.487 |
| EGOI_100616GSEP8631.E2 | 16-JUN-2010 | 02:25:37.710 |
| EGOI_100616GSEP8656.E2 | 16-JUN-2010 | 04:06:06.823 |
| EGOI_100616GSEP8663.E2 | 16-JUN-2010 | 05:48:32.947 |
| EGOI_100616KSEP3907.E2 | 16-JUN-2010 | 07:46:32.170 |
| EGOI_100616KSEP3928.E2 | 16-JUN-2010 | 09:26:31.281 |
| EGOI_100616KSEP3957.E2 | 16-JUN-2010 | 11:06:09.388 |
| EGOI_100616KSEP3983.E2 | 16-JUN-2010 | 12:45:24.994 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100616KSEP4010.E2 | 16-JUN-2010 | 14:24:18.096 |
| EGOI_100616KSEP4038.E2 | 16-JUN-2010 | 16:02:02.195 |
| EGOI_100616KSEP4067.E2 | 16-JUN-2010 | 17:39:59.790 |
| EGOI_100616KSEP4090.E2 | 16-JUN-2010 | 19:17:52.888 |
| EGOI_100616KSEP4121.E2 | 16-JUN-2010 | 20:57:52.003 |
| EGOI_100616KSEP4130.E2 | 16-JUN-2010 | 22:40:15.125 |
| EGOI_100616MAEP3382.E2 | 16-JUN-2010 | 09:34:16.328 |
| EGOI_100616MAEP3396.E2 | 16-JUN-2010 | 11:13:54.435 |
| EGOI_100616MAEP3404.E2 | 16-JUN-2010 | 19:15:33.377 |
| EGOI_100616MMEP0042.E2 | 16-JUN-2010 | 00:03:48.844 |
| EGOI_100616MMEP0053.E2 | 16-JUN-2010 | 03:28:20.093 |
| EGOI_100616MMEP0062.E2 | 16-JUN-2010 | 05:10:55.218 |
| EGOI_100616MMEP0071.E2 | 16-JUN-2010 | 08:33:50.457 |
| EGOI_100616MSEP9086.E2 | 16-JUN-2010 | 00:41:05.572 |
| EGOI_100616MSEP9100.E2 | 16-JUN-2010 | 11:19:15.466 |
| EGOI_100616MSEP9125.E2 | 16-JUN-2010 | 12:59:29.576 |
| EGOI_100616MSEP9152.E2 | 16-JUN-2010 | 22:28:18.051 |
| EGOI_100616SGEP6350.E2 | 16-JUN-2010 | 14:01:20.959 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 79233 | 16-JUN-2010 | 07:45:19.977 | 07:46:32.170 | 72.193000 |
| KS | 79234 | 16-JUN-2010 | 09:24:55.280 | 09:26:31.280 | 96.000000 |
| KS | 79235 | 16-JUN-2010 | 11:04:30.407 | 11:06:09.387 | 98.980000 |
| KS | 79236 | 16-JUN-2010 | 12:43:47.537 | 12:45:24.994 | 97.457000 |
| KS | 79237 | 16-JUN-2010 | 14:22:36.518 | 14:24:18.096 | 101.57800 |
| KS | 79238 | 16-JUN-2010 | 16:00:23.188 | 16:02:02.194 | 99.006000 |
| KS | 79239 | 16-JUN-2010 | 17:38:18.197 | 17:39:59.789 | 101.59200 |
| KS | 79240 | 16-JUN-2010 | 19:16:39.544 | 19:17:52.887 | 73.343000 |
| KS | 79241 | 16-JUN-2010 | 20:56:45.545 | 20:57:52.003 | 66.458000 |
| KS | 79242 | 16-JUN-2010 | 22:39:04.972 | 22:40:15.125 | 70.153000 |
| GS | 79231 | 16-JUN-2010 | 04:04:57.219 | 04:06:06.823 | 69.604000 |
| MS | 79235 | 16-JUN-2010 | 11:17:31.029 | 11:19:15.465 | 104.43600 |
| MS | 79236 | 16-JUN-2010 | 12:57:51.168 | 12:59:29.575 | 98.407000 |
| MS | 79242 | 16-JUN-2010 | 22:27:13.254 | 22:28:18.050 | 64.796000 |
| MA | 79234 | 16-JUN-2010 | 09:33:01.274 | 09:34:16.328 | 75.054000 |
| MA | 79240 | 16-JUN-2010 | 19:13:16.670 | 19:15:33.376 | 136.70600 |
| BE | 79230 | 16-JUN-2010 | 02:50:22.147 | 02:52:01.869 | 99.722000 |
| BE | 79231 | 16-JUN-2010 | 04:30:39.497 | 04:32:35.486 | 115.98900 |

1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 79228 | 15-JUN-2010 | 23:52:19.125 | 00:06:48.354 | 869.22900 |
| HO | 79229 | 16-JUN-2010 | 01:33:31.004 | 01:45:08.440 | 697.43600 |
| MM | 79229 | 16-JUN-2010 | 01:45:14.554 | 01:54:49.706 | 575.15200 |
| GS | 79229 | 16-JUN-2010 | 00:48:42.893 | 00:57:26.790 | 523.89700 |
| MI | 79230 | 16-JUN-2010 | 02:21:12.585 | 02:31:51.260 | 638.67500 |
| SG | 79230 | 16-JUN-2010 | 03:01:37.769 | 03:15:05.081 | 807.31200 |
| CM | 79230 | 16-JUN-2010 | 03:57:48.329 | 04:10:11.652 | 743.32300 |
| MI | 79231 | 16-JUN-2010 | 03:59:05.034 | 04:11:57.533 | 772.49900 |
| SG | 79231 | 16-JUN-2010 | 04:42:31.563 | 04:52:19.319 | 587.75600 |
| MM | 79232 | 16-JUN-2010 | 06:52:44.021 | 06:59:37.081 | 413.06000 |
| KS | 79232 | 16-JUN-2010 | 06:06:28.814 | 06:12:13.969 | 345.15500 |
| CM | 79232 | 16-JUN-2010 | 05:42:08.654 | 05:44:49.524 | 160.87000 |
| JO | 79232 | 16-JUN-2010 | 06:34:33.508 | 06:43:24.014 | 530.50600 |
| MA | 79233 | 16-JUN-2010 | 07:55:59.130 | 08:01:45.735 | 346.60500 |
| JO | 79233 | 16-JUN-2010 | 08:10:00.071 | 08:25:00.926 | 900.85500 |
| MM | 79234 | 16-JUN-2010 | 10:13:41.431 | 10:24:53.618 | 672.18700 |
| JO | 79234 | 16-JUN-2010 | 09:52:27.584 | 10:01:56.748 | 569.16400 |
| HO | 79235 | 16-JUN-2010 | 12:03:02.250 | 12:16:30.724 | 808.47400 |
| MM | 79235 | 16-JUN-2010 | 11:53:43.828 | 12:06:04.395 | 740.56700 |
| HO | 79236 | 16-JUN-2010 | 13:42:05.675 | 13:56:32.609 | 866.93400 |
| MM | 79236 | 16-JUN-2010 | 13:33:32.457 | 13:46:15.789 | 763.33200 |
| SG | 79236 | 16-JUN-2010 | 14:00:35.361 | 14:07:31.787 | 416.42600 |
| BE | 79237 | 16-JUN-2010 | 14:06:58.851 | 14:20:23.829 | 804.97800 |
| HO | 79237 | 16-JUN-2010 | 15:23:29.993 | 15:30:49.088 | 439.09500 |
| MM | 79237 | 16-JUN-2010 | 15:13:05.487 | 15:25:44.819 | 759.33200 |
| MI | 79237 | 16-JUN-2010 | 14:41:30.802 | 14:50:38.760 | 547.95800 |
| GS | 79237 | 16-JUN-2010 | 14:34:26.850 | 14:45:24.784 | 657.93400 |
| BE | 79238 | 16-JUN-2010 | 15:49:31.146 | 15:57:56.863 | 505.71700 |
| MM | 79238 | 16-JUN-2010 | 16:52:22.545 | 17:04:54.424 | 751.87900 |
| MI | 79238 | 16-JUN-2010 | 16:19:01.549 | 16:32:11.409 | 789.86000 |
| GS | 79238 | 16-JUN-2010 | 16:13:07.082 | 16:26:58.435 | 831.35300 |
| CM | 79238 | 16-JUN-2010 | 16:21:46.011 | 16:34:10.546 | 744.53500 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MM | 79239 | 16-JUN-2010 | 18:31:30.640 | 18:44:05.745 | 755.10500 |
| GS | 79239 | 16-JUN-2010 | 17:53:35.725 | 18:03:24.139 | 588.41400 |
| CM | 79239 | 16-JUN-2010 | 18:04:52.836 | 18:08:28.101 | 215.26500 |
| MM | 79240 | 16-JUN-2010 | 20:10:47.283 | 20:23:30.701 | 763.41800 |
| JO | 79240 | 16-JUN-2010 | 20:30:06.070 | 20:45:01.157 | 895.08700 |
| HO | 79241 | 16-JUN-2010 | 21:46:15.819 | 21:54:40.215 | 504.39600 |
| MM | 79241 | 16-JUN-2010 | 21:50:36.021 | 22:03:12.119 | 756.09800 |
| MA | 79241 | 16-JUN-2010 | 20:48:34.175 | 21:02:17.067 | 822.89200 |
| JO | 79241 | 16-JUN-2010 | 22:10:39.807 | 22:22:04.566 | 684.75900 |
| HO | 79242 | 16-JUN-2010 | 23:21:18.968 | 23:35:29.598 | 850.63000 |
| MM | 79242 | 16-JUN-2010 | 23:31:17.288 | 23:43:08.218 | 710.93000 |
| MA | 79242 | 16-JUN-2010 | 22:32:49.836 | 22:39:50.150 | 420.31400 |

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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 |

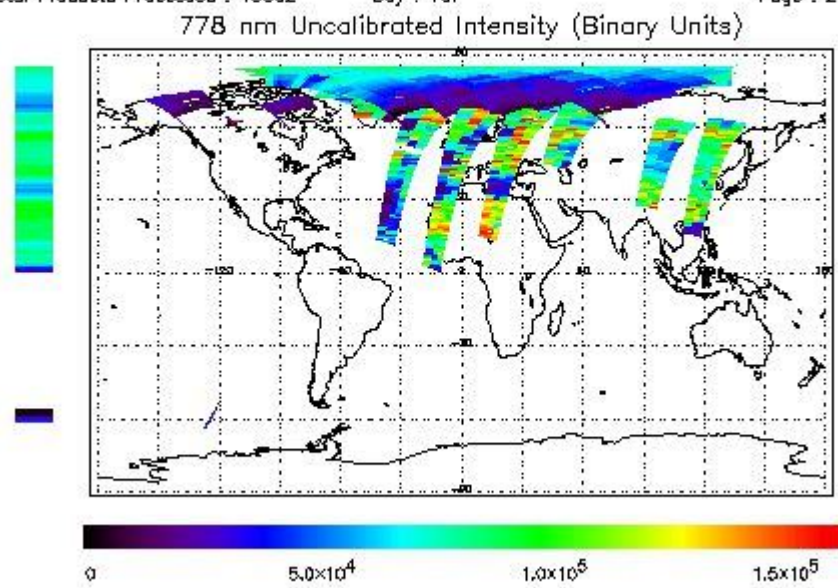
| | |
|-------------------------------|----|
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected Temperature B | OK |
| Selected Temperature C | OK |
| Channel 1 Summation | OK |
| Channel 2 Summation | OK |
| Channel 4 Summation | OK |
| Log Pages | OK |
| 331/338 nm Uncal. 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 : 16-JUN-2010 00:03:48.844 : ORBIT : 79228.6519
 Last Product : 16-JUN-2010 22:52:04.899 : ORBIT : 79242.2531
 Total Products Processed : 13002 Day : 167 Page : 21

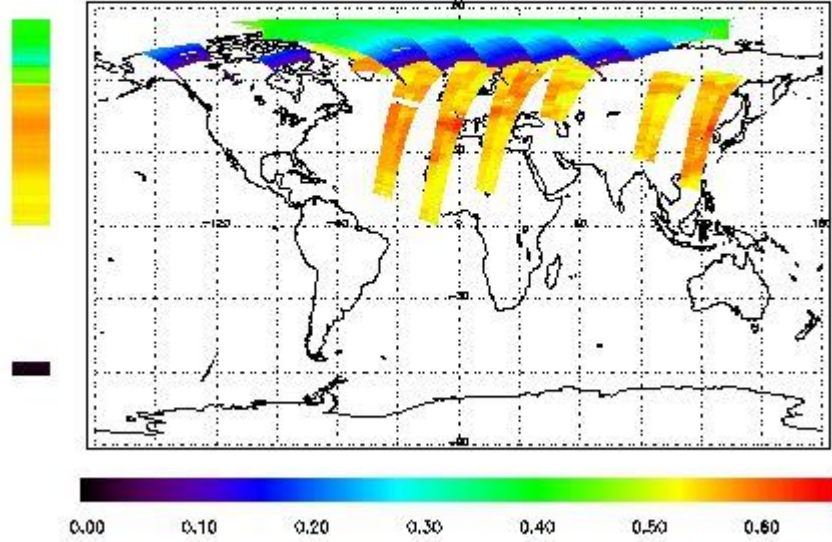


Ozone Line Ratio

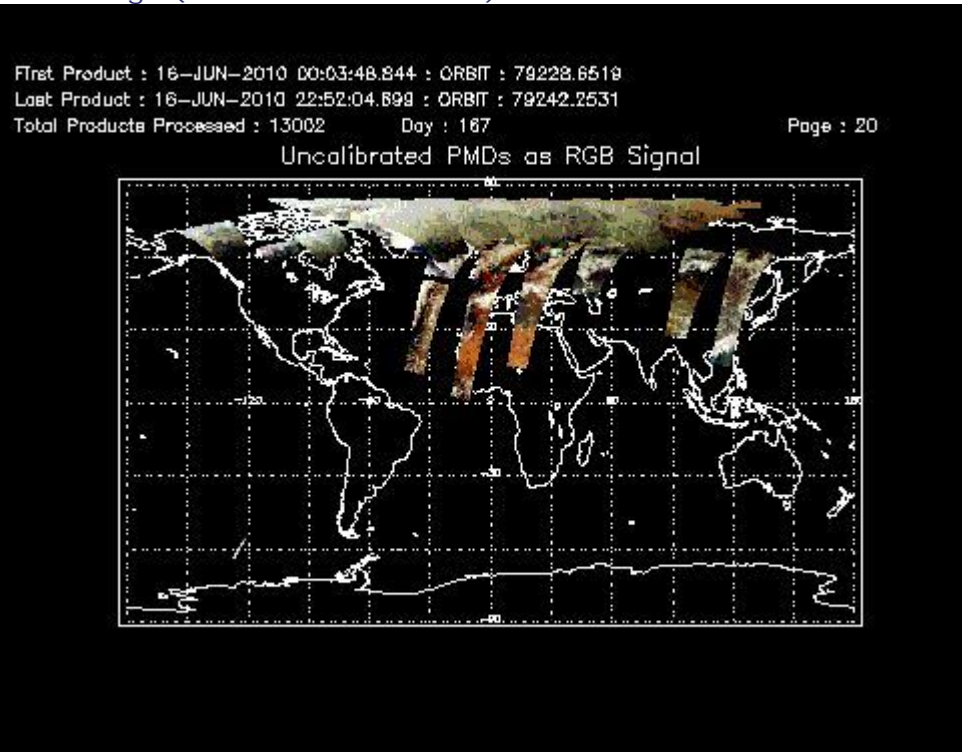
First Product : 16-JUN-2010 00:03:48.844 : ORBIT : 79228.6519
 Last Product : 16-JUN-2010 22:52:04.899 : ORBIT : 79242.2531
 Total Products Processed : 13002 Day : 167

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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 | 17:40:43.297 | -- | 79239 | Yes | -- | 14560 |

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