

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 27-JAN-2010 |
| Start Time of First Product | 00:41:48 |
| Stop Time of Last Product | 22:52:44 |
| Number of EGOI Products analysed | 32 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100127BEEP1770.E2 | 27-JAN-2010 | 02:52:47.541 |
| EGOI_100127BEEP1776.E2 | 27-JAN-2010 | 04:33:12.156 |
| EGOI_100127CMEP6371.E2 | 27-JAN-2010 | 04:01:58.464 |
| EGOI_100127CMEP6376.E2 | 27-JAN-2010 | 05:41:56.079 |
| EGOI_100127CMEP6381.E2 | 27-JAN-2010 | 16:23:00.031 |
| EGOI_100127CMEP6389.E2 | 27-JAN-2010 | 18:05:15.666 |
| EGOI_100127GSEP8311.E2 | 27-JAN-2010 | 02:26:08.377 |
| EGOI_100127GSEP8336.E2 | 27-JAN-2010 | 04:06:44.995 |
| EGOI_100127GSEP8343.E2 | 27-JAN-2010 | 05:49:14.133 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100127KSEP9364.E2 | 27-JAN-2010 | 07:47:11.853 |
| EGOI_100127KSEP9388.E2 | 27-JAN-2010 | 09:27:12.469 |
| EGOI_100127KSEP9421.E2 | 27-JAN-2010 | 11:06:49.081 |
| EGOI_100127KSEP9451.E2 | 27-JAN-2010 | 12:46:03.193 |
| EGOI_100127KSEP9477.E2 | 27-JAN-2010 | 14:24:57.809 |
| EGOI_100127KSEP9496.E2 | 27-JAN-2010 | 16:02:43.410 |
| EGOI_100127KSEP9526.E2 | 27-JAN-2010 | 17:40:39.518 |
| EGOI_100127KSEP9562.E2 | 27-JAN-2010 | 19:18:32.622 |
| EGOI_100127KSEP9597.E2 | 27-JAN-2010 | 20:58:31.734 |
| EGOI_100127KSEP9619.E2 | 27-JAN-2010 | 22:40:54.866 |
| EGOI_100127MAEP8277.E2 | 27-JAN-2010 | 09:34:57.520 |
| EGOI_100127MAEP8292.E2 | 27-JAN-2010 | 11:14:32.632 |
| EGOI_100127MIEP1520.E2 | 27-JAN-2010 | 02:23:30.860 |
| EGOI_100127MIEP1541.E2 | 27-JAN-2010 | 04:01:56.964 |
| EGOI_100127MIEP1560.E2 | 27-JAN-2010 | 14:43:32.419 |
| EGOI_100127MIEP1588.E2 | 27-JAN-2010 | 16:21:10.523 |
| EGOI_100127MSEP2891.E2 | 27-JAN-2010 | 00:41:48.233 |
| EGOI_100127MSEP2907.E2 | 27-JAN-2010 | 11:19:55.164 |
| EGOI_100127MSEP2931.E2 | 27-JAN-2010 | 13:00:10.781 |
| EGOI_100127MSEP2958.E2 | 27-JAN-2010 | 22:29:08.292 |
| EGOI_100127SGEP3248.E2 | 27-JAN-2010 | 03:07:07.123 |
| EGOI_100127SGEP3255.E2 | 27-JAN-2010 | 04:45:24.234 |
| EGOI_100127SGEP3262.E2 | 27-JAN-2010 | 14:02:05.164 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 77229 | 27-JAN-2010 | 07:45:19.976 | 07:47:11.852 | 111.87600 |
| KS | 77230 | 27-JAN-2010 | 09:24:55.279 | 09:27:12.469 | 137.19000 |
| KS | 77231 | 27-JAN-2010 | 11:04:30.407 | 11:06:49.080 | 138.67300 |
| KS | 77232 | 27-JAN-2010 | 12:43:47.537 | 12:46:03.192 | 135.65500 |
| KS | 77233 | 27-JAN-2010 | 14:22:36.518 | 14:24:57.809 | 141.29100 |
| KS | 77234 | 27-JAN-2010 | 16:00:23.187 | 16:02:43.410 | 140.22300 |
| KS | 77235 | 27-JAN-2010 | 17:38:18.196 | 17:40:39.517 | 141.32100 |
| KS | 77236 | 27-JAN-2010 | 19:16:39.543 | 19:18:32.621 | 113.07800 |
| KS | 77237 | 27-JAN-2010 | 20:56:45.544 | 20:58:31.734 | 106.19000 |
| KS | 77238 | 27-JAN-2010 | 22:39:04.972 | 22:40:54.866 | 109.89400 |
| GS | 77227 | 27-JAN-2010 | 04:04:57.218 | 04:06:44.994 | 107.77600 |
| MS | 77225 | 27-JAN-2010 | 00:40:14.140 | 00:41:48.232 | 94.092000 |
| MS | 77231 | 27-JAN-2010 | 11:17:31.029 | 11:19:55.164 | 144.13500 |
| MS | 77232 | 27-JAN-2010 | 12:57:51.168 | 13:00:10.780 | 139.61200 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 77238 | 27-JAN-2010 | 22:27:13.254 | 22:29:08.291 | 115.03700 |
| MA | 77230 | 27-JAN-2010 | 09:33:01.273 | 09:34:57.519 | 116.24600 |
| MI | 77226 | 27-JAN-2010 | 02:21:12.585 | 02:23:30.860 | 138.27500 |
| MI | 77227 | 27-JAN-2010 | 03:59:05.033 | 04:01:56.963 | 171.93000 |
| MI | 77233 | 27-JAN-2010 | 14:41:30.802 | 14:43:32.418 | 121.61600 |
| MI | 77234 | 27-JAN-2010 | 16:19:01.548 | 16:21:10.522 | 128.97400 |
| BE | 77226 | 27-JAN-2010 | 02:50:22.147 | 02:52:47.540 | 145.39300 |
| BE | 77227 | 27-JAN-2010 | 04:30:39.496 | 04:33:12.156 | 152.66000 |
| SG | 77226 | 27-JAN-2010 | 03:01:37.769 | 03:07:07.123 | 329.35400 |
| SG | 77227 | 27-JAN-2010 | 04:42:31.562 | 04:45:24.234 | 172.67200 |
| SG | 77232 | 27-JAN-2010 | 14:00:35.361 | 14:02:05.163 | 89.802000 |
| CM | 77234 | 27-JAN-2010 | 16:21:46.010 | 16:23:00.031 | 74.021000 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 77224 | 26-JAN-2010 | 23:52:19.125 | 00:06:48.354 | 869.22900 |
| MM | 77224 | 27-JAN-2010 | 00:03:09.003 | 00:14:35.454 | 686.45100 |
| HO | 77225 | 27-JAN-2010 | 01:33:31.004 | 01:45:08.440 | 697.43600 |
| MM | 77225 | 27-JAN-2010 | 01:45:14.554 | 01:54:49.706 | 575.15200 |
| GS | 77225 | 27-JAN-2010 | 00:48:42.893 | 00:57:26.790 | 523.89700 |
| MM | 77226 | 27-JAN-2010 | 03:28:11.579 | 03:35:25.400 | 433.82100 |
| MM | 77227 | 27-JAN-2010 | 05:11:05.070 | 05:16:52.013 | 346.94300 |
| MM | 77228 | 27-JAN-2010 | 06:52:44.020 | 06:59:37.080 | 413.06000 |
| KS | 77228 | 27-JAN-2010 | 06:06:28.813 | 06:12:13.968 | 345.15500 |
| JO | 77228 | 27-JAN-2010 | 06:34:33.507 | 06:43:24.013 | 530.50600 |
| MM | 77229 | 27-JAN-2010 | 08:33:24.818 | 08:42:38.421 | 553.60300 |
| MA | 77229 | 27-JAN-2010 | 07:55:59.129 | 08:01:45.734 | 346.60500 |
| JO | 77229 | 27-JAN-2010 | 08:10:00.070 | 08:25:00.925 | 900.85500 |
| MM | 77230 | 27-JAN-2010 | 10:13:41.430 | 10:24:53.617 | 672.18700 |
| JO | 77230 | 27-JAN-2010 | 09:52:27.583 | 10:01:56.747 | 569.16400 |
| HO | 77231 | 27-JAN-2010 | 12:03:02.250 | 12:16:30.724 | 808.47400 |
| MM | 77231 | 27-JAN-2010 | 11:53:43.828 | 12:06:04.395 | 740.56700 |
| HO | 77232 | 27-JAN-2010 | 13:42:05.675 | 13:56:32.609 | 866.93400 |
| MM | 77232 | 27-JAN-2010 | 13:33:32.457 | 13:46:15.789 | 763.33200 |
| BE | 77233 | 27-JAN-2010 | 14:06:58.851 | 14:20:23.829 | 804.97800 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| HO | 77233 | 27-JAN-2010 | 15:23:29.993 | 15:30:49.088 | 439.09500 |
| MM | 77233 | 27-JAN-2010 | 15:13:05.487 | 15:25:44.819 | 759.33200 |
| GS | 77233 | 27-JAN-2010 | 14:34:26.850 | 14:45:24.784 | 657.93400 |
| SG | 77233 | 27-JAN-2010 | 15:36:10.103 | 15:49:59.332 | 829.22900 |
| BE | 77234 | 27-JAN-2010 | 15:49:31.145 | 15:57:56.862 | 505.71700 |
| MM | 77234 | 27-JAN-2010 | 16:52:22.544 | 17:04:54.423 | 751.87900 |
| GS | 77234 | 27-JAN-2010 | 16:13:07.081 | 16:26:58.434 | 831.35300 |
| MM | 77235 | 27-JAN-2010 | 18:31:30.639 | 18:44:05.744 | 755.10500 |
| GS | 77235 | 27-JAN-2010 | 17:53:35.724 | 18:03:24.138 | 588.41400 |
| MM | 77236 | 27-JAN-2010 | 20:10:47.282 | 20:23:30.700 | 763.41800 |
| MA | 77236 | 27-JAN-2010 | 19:13:16.669 | 19:21:17.610 | 480.94100 |
| JO | 77236 | 27-JAN-2010 | 20:30:06.069 | 20:45:01.156 | 895.08700 |
| HO | 77237 | 27-JAN-2010 | 21:46:15.818 | 21:54:40.214 | 504.39600 |
| MM | 77237 | 27-JAN-2010 | 21:50:36.020 | 22:03:12.118 | 756.09800 |
| MA | 77237 | 27-JAN-2010 | 20:48:34.174 | 21:02:17.066 | 822.89200 |
| JO | 77237 | 27-JAN-2010 | 22:10:39.806 | 22:22:04.565 | 684.75900 |
| HO | 77238 | 27-JAN-2010 | 23:21:18.968 | 23:35:29.598 | 850.63000 |
| MM | 77238 | 27-JAN-2010 | 23:31:17.288 | 23:43:08.218 | 710.93000 |
| MA | 77238 | 27-JAN-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

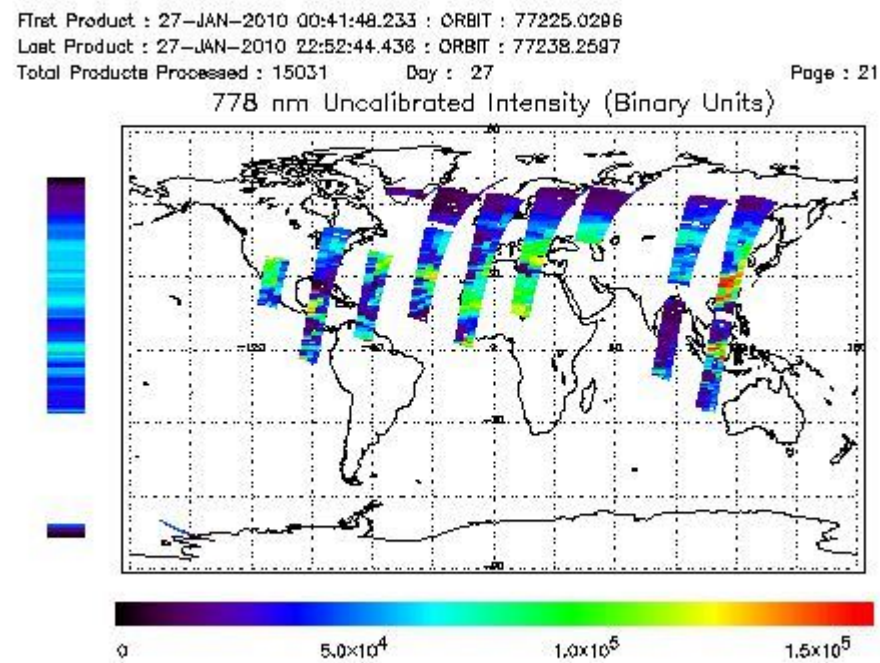
| Indicator | Value |
|----------------------------------|-------|
| MPH Product Confidence | OK |
| SPH Product Confidence | OK |
| Command Word Echo Summary | OK |
| Instrument Status 1A | OK |
| Instrument Status 1B | OK |
| Instrument Status 2 | OK |
| Integration Times Channel 1 | OK |
| Co-Adding 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

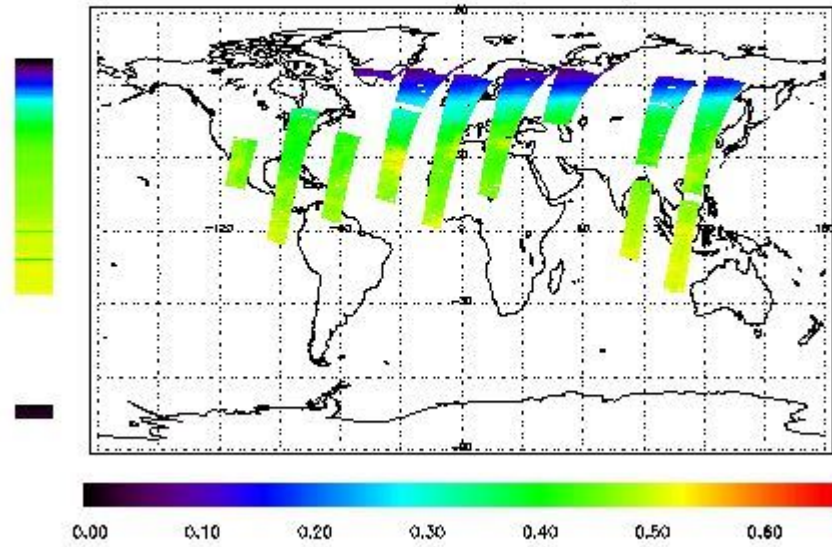


Ozone Line Ratio

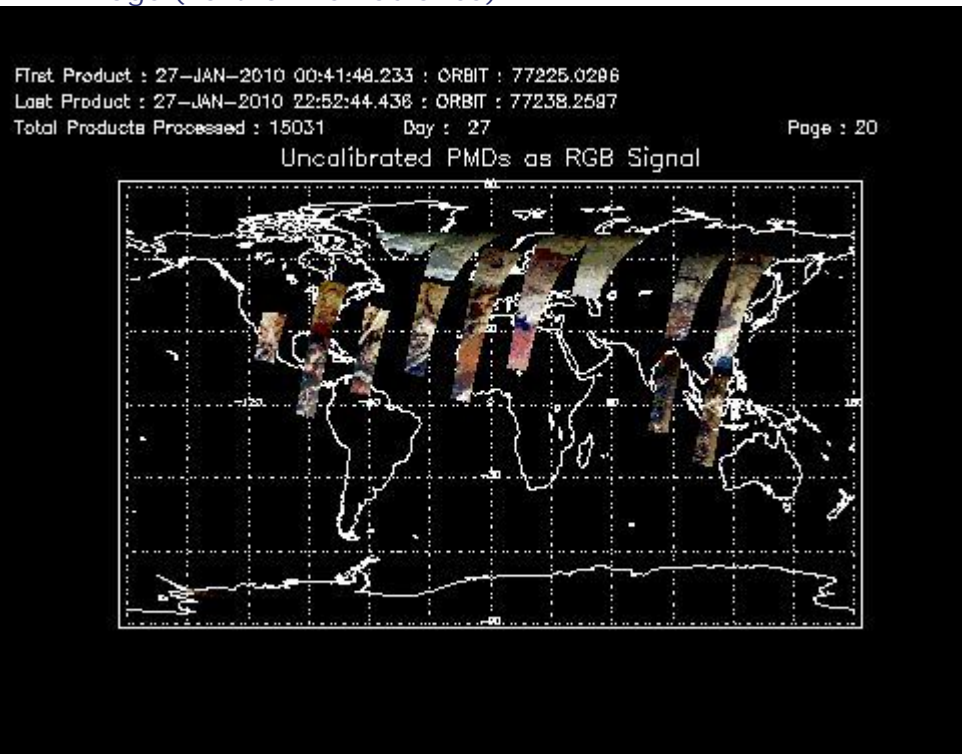
First Product : 27-JAN-2010 00:41:48.233 : ORBIT : 77225.0296
 Last Product : 27-JAN-2010 22:52:44.436 : ORBIT : 77238.2597
 Total Products Processed : 15031 Day : 27

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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 | 11:11:20.612 | -- | 77231 | Yes | -- | 15781 |

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