

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|--------------|
| Report Version | GOMEver3_3 |
| Report of Day | 28-JUN-2010 |
| Start Time of First Product | 01:11:21 |
| Stop Time of Last Product | 23:14:51 |
| Number of EGOI Products analysed | 38 |
| Number of corrupted products | 1 |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100628GSEP9532.E2 | 28-JUN-2010 | 01:11:20.603 |
| EGOI_100628GSEP9563.E2 | 28-JUN-2010 | 02:48:31.701 |
| EGOI_100628GSEP9587.E2 | 28-JUN-2010 | 04:29:56.314 |
| EGOI_100628GSEP9595.E2 | 28-JUN-2010 | 06:23:00.002 |
| EGOI_100628GSEP9600.E2 | 28-JUN-2010 | 06:12:07.443 |
| EGOI_100628KSEP6932.E2 | 28-JUN-2010 | 06:29:48.041 |
| EGOI_100628KSEP6950.E2 | 28-JUN-2010 | 08:09:41.154 |
| EGOI_100628KSEP6971.E2 | 28-JUN-2010 | 09:49:19.261 |
| EGOI_100628KSEP6992.E2 | 28-JUN-2010 | 11:28:57.367 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100628KSEP7009.E2 | 28-JUN-2010 | 13:08:02.469 |
| EGOI_100628KSEP7028.E2 | 28-JUN-2010 | 14:46:48.072 |
| EGOI_100628KSEP7041.E2 | 28-JUN-2010 | 16:24:29.166 |
| EGOI_100628KSEP7069.E2 | 28-JUN-2010 | 18:02:32.765 |
| EGOI_100628KSEP7101.E2 | 28-JUN-2010 | 19:40:37.860 |
| EGOI_100628KSEP7129.E2 | 28-JUN-2010 | 21:21:11.474 |
| EGOI_100628KSEP7154.E2 | 28-JUN-2010 | 23:03:52.600 |
| EGOI_100628MAEP3862.E2 | 28-JUN-2010 | 08:17:56.205 |
| EGOI_100628MAEP3874.E2 | 28-JUN-2010 | 09:56:52.307 |
| EGOI_100628MAEP3898.E2 | 28-JUN-2010 | 21:13:29.431 |
| EGOI_100628MMEP0319.E2 | 28-JUN-2010 | 03:51:57.580 |
| EGOI_100628MMEP0326.E2 | 28-JUN-2010 | 05:34:19.209 |
| EGOI_100628MMEP0335.E2 | 28-JUN-2010 | 07:15:58.826 |
| EGOI_100628MMEP0344.E2 | 28-JUN-2010 | 12:17:17.160 |
| EGOI_100628MMEP0351.E2 | 28-JUN-2010 | 13:56:58.266 |
| EGOI_100628MMEP0360.E2 | 28-JUN-2010 | 15:36:25.877 |
| EGOI_100628MMEP0367.E2 | 28-JUN-2010 | 17:16:30.983 |
| EGOI_100628MMEP0375.E2 | 28-JUN-2010 | 18:55:39.090 |
| EGOI_100628MMEP0383.E2 | 28-JUN-2010 | 20:34:38.189 |
| EGOI_100628MMEP0391.E2 | 28-JUN-2010 | 22:14:50.802 |
| EGOI_100628MSEP0467.E2 | 28-JUN-2010 | 10:04:53.855 |
| EGOI_100628MSEP0490.E2 | 28-JUN-2010 | 11:41:54.445 |
| EGOI_100628MSEP0512.E2 | 28-JUN-2010 | 13:23:14.560 |
| EGOI_100628MSEP0530.E2 | 28-JUN-2010 | 21:16:17.446 |
| EGOI_100628MSEP0562.E2 | 28-JUN-2010 | 22:50:25.518 |
| EGOI_100628SGEP6648.E2 | 28-JUN-2010 | 03:34:30.478 |
| EGOI_100628SGEP6657.E2 | 28-JUN-2010 | 05:08:19.045 |
| EGOI_100628SGEP6662.E2 | 28-JUN-2010 | 14:22:38.927 |
| EGOI_100628SGEP6667.E2 | 28-JUN-2010 | 16:01:05.026 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 79405 | 28-JUN-2010 | 08:08:04.613 | 08:09:41.154 | 96.541000 |
| KS | 79406 | 28-JUN-2010 | 09:47:41.715 | 09:49:19.261 | 97.546000 |
| KS | 79407 | 28-JUN-2010 | 11:27:14.276 | 11:28:57.366 | 103.09000 |
| KS | 79408 | 28-JUN-2010 | 13:06:24.644 | 13:08:02.469 | 97.825000 |
| KS | 79409 | 28-JUN-2010 | 14:45:06.040 | 14:46:48.072 | 102.03200 |
| KS | 79410 | 28-JUN-2010 | 16:22:46.000 | 16:24:29.165 | 103.16500 |
| KS | 79411 | 28-JUN-2010 | 18:00:34.580 | 18:02:32.765 | 118.18500 |
| KS | 79412 | 28-JUN-2010 | 19:39:22.649 | 19:40:37.860 | 75.211000 |
| KS | 79413 | 28-JUN-2010 | 21:19:55.495 | 21:21:11.473 | 75.978000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| GS | 79401 | 28-JUN-2010 | 01:10:07.707 | 01:11:20.603 | 72.896000 |
| GS | 79402 | 28-JUN-2010 | 02:47:03.041 | 02:48:31.701 | 88.660000 |
| GS | 79403 | 28-JUN-2010 | 04:28:44.153 | 04:29:56.314 | 72.161000 |
| MS | 79407 | 28-JUN-2010 | 11:40:10.127 | 11:41:54.444 | 104.31700 |
| MS | 79408 | 28-JUN-2010 | 13:21:33.757 | 13:23:14.559 | 100.80200 |
| MA | 79406 | 28-JUN-2010 | 09:55:44.063 | 09:56:52.307 | 68.244000 |
| MA | 79413 | 28-JUN-2010 | 21:11:40.300 | 21:13:29.430 | 109.13000 |
| MM | 79410 | 28-JUN-2010 | 17:15:02.437 | 17:16:30.983 | 88.546000 |
| MM | 79411 | 28-JUN-2010 | 18:54:10.575 | 18:55:39.090 | 88.515000 |
| MM | 79412 | 28-JUN-2010 | 20:33:32.466 | 20:34:38.188 | 65.722000 |
| MM | 79413 | 28-JUN-2010 | 22:13:31.657 | 22:14:50.801 | 79.144000 |
| SG | 79402 | 28-JUN-2010 | 03:24:04.568 | 03:34:30.477 | 625.90900 |
| SG | 79408 | 28-JUN-2010 | 14:21:19.024 | 14:22:38.926 | 79.902000 |
| SG | 79409 | 28-JUN-2010 | 15:59:08.749 | 16:01:05.025 | 116.27600 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 79400 | 28-JUN-2010 | 00:14:53.351 | 00:29:31.588 | 878.23700 |
| MM | 79400 | 28-JUN-2010 | 00:26:23.455 | 00:37:28.820 | 665.36500 |
| HO | 79401 | 28-JUN-2010 | 01:58:12.896 | 02:06:52.471 | 519.57500 |
| MM | 79401 | 28-JUN-2010 | 02:08:43.052 | 02:17:46.841 | 543.78900 |
| BE | 79402 | 28-JUN-2010 | 03:13:04.812 | 03:26:26.854 | 802.04200 |
| MI | 79402 | 28-JUN-2010 | 02:42:56.427 | 02:55:09.511 | 733.08400 |
| CM | 79402 | 28-JUN-2010 | 02:44:32.021 | 02:51:09.982 | 397.96100 |
| CM | 79402 | 28-JUN-2010 | 04:20:32.659 | 04:32:48.592 | 735.93300 |
| BE | 79403 | 28-JUN-2010 | 04:54:04.274 | 05:02:21.705 | 497.43100 |
| MI | 79403 | 28-JUN-2010 | 04:22:26.558 | 04:34:09.543 | 702.98500 |
| JO | 79404 | 28-JUN-2010 | 06:55:33.911 | 07:07:10.521 | 696.61000 |
| MM | 79405 | 28-JUN-2010 | 08:56:21.552 | 09:06:06.026 | 584.47400 |
| JO | 79405 | 28-JUN-2010 | 08:32:45.775 | 08:47:38.959 | 893.18400 |
| MM | 79406 | 28-JUN-2010 | 10:36:34.569 | 10:48:06.983 | 692.41400 |
| MA | 79407 | 28-JUN-2010 | 11:37:06.350 | 11:44:17.140 | 430.79000 |
| SG | 79408 | 28-JUN-2010 | 14:21:19.024 | 14:31:59.529 | 640.50500 |
| BE | 79409 | 28-JUN-2010 | 14:29:49.002 | 14:43:02.857 | 793.85500 |
| MI | 79409 | 28-JUN-2010 | 15:03:10.536 | 15:14:39.546 | 689.01000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| GS | 79409 | 28-JUN-2010 | 14:56:46.009 | 15:09:28.272 | 762.26300 |
| CM | 79409 | 28-JUN-2010 | 15:07:58.830 | 15:14:27.536 | 388.70600 |
| MI | 79410 | 28-JUN-2010 | 16:42:00.858 | 16:54:23.642 | 742.78400 |
| GS | 79410 | 28-JUN-2010 | 16:35:56.094 | 16:49:25.265 | 809.17100 |
| CM | 79410 | 28-JUN-2010 | 16:44:31.344 | 16:56:43.900 | 732.55600 |
| GS | 79411 | 28-JUN-2010 | 18:16:57.032 | 18:24:37.770 | 460.73800 |
| JO | 79411 | 28-JUN-2010 | 19:15:40.489 | 19:25:29.041 | 588.55200 |
| MA | 79412 | 28-JUN-2010 | 19:33:20.532 | 19:45:07.508 | 706.97600 |
| JO | 79412 | 28-JUN-2010 | 20:52:45.118 | 21:07:45.238 | 900.12000 |
| HO | 79413 | 28-JUN-2010 | 22:07:17.691 | 22:18:02.331 | 644.64000 |
| JO | 79413 | 28-JUN-2010 | 22:34:29.855 | 22:43:00.451 | 510.59600 |
| HO | 79414 | 28-JUN-2010 | 23:43:52.513 | 23:58:16.071 | 863.55800 |

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1.5 - List of corrupted products

| Station | Orbit | Time |
|---------|-------|--------------|
| MM | 79409 | 15:36:28.877 |

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 |

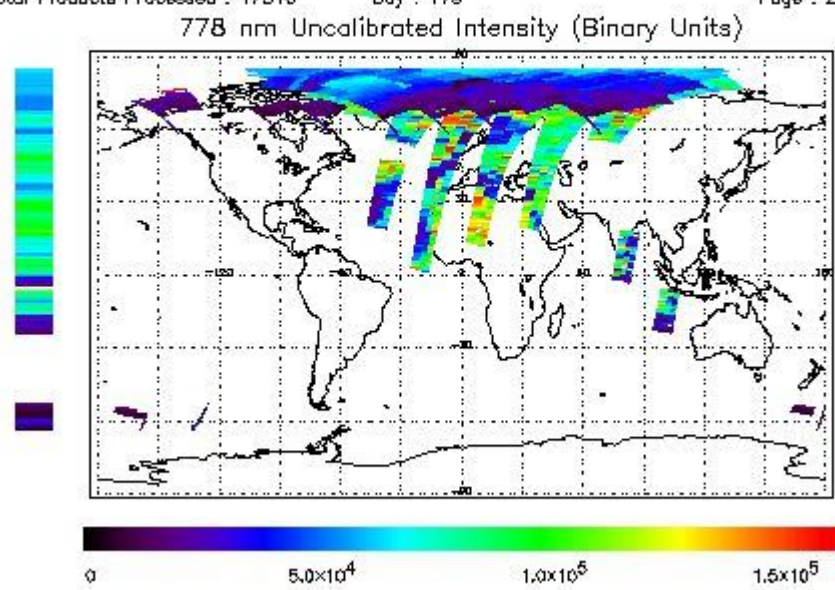
| | |
|--------------------------------------|----|
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected Temperature B | OK |
| Selected Temperature C | OK |
| Channel 1 Summation | OK |
| Channel 2 Summation | OK |
| Channel 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 : 28-JUN-2010 01:11:20.603 : ORBIT : 79401.0946
 Last Product : 28-JUN-2010 23:14:51.166 : ORBIT : 79414.2510
 Total Products Processed : 17310 Day : 179 Page : 21

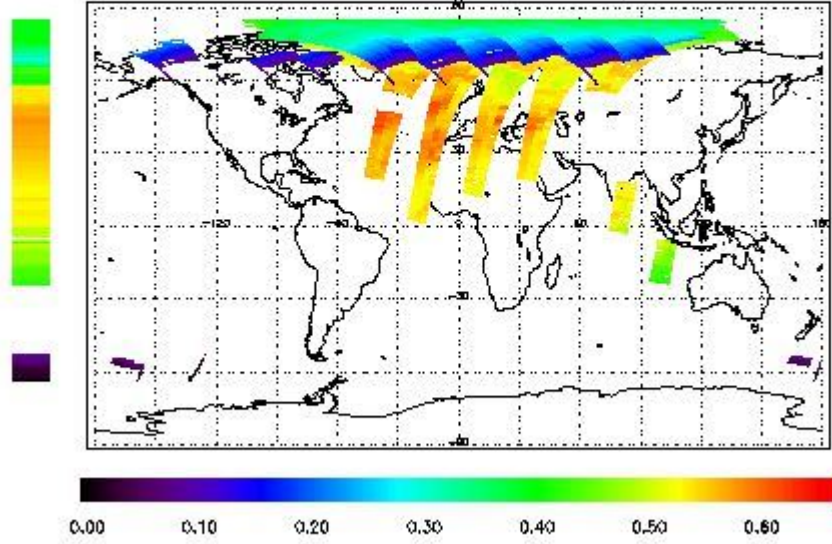


Ozone Line Ratio

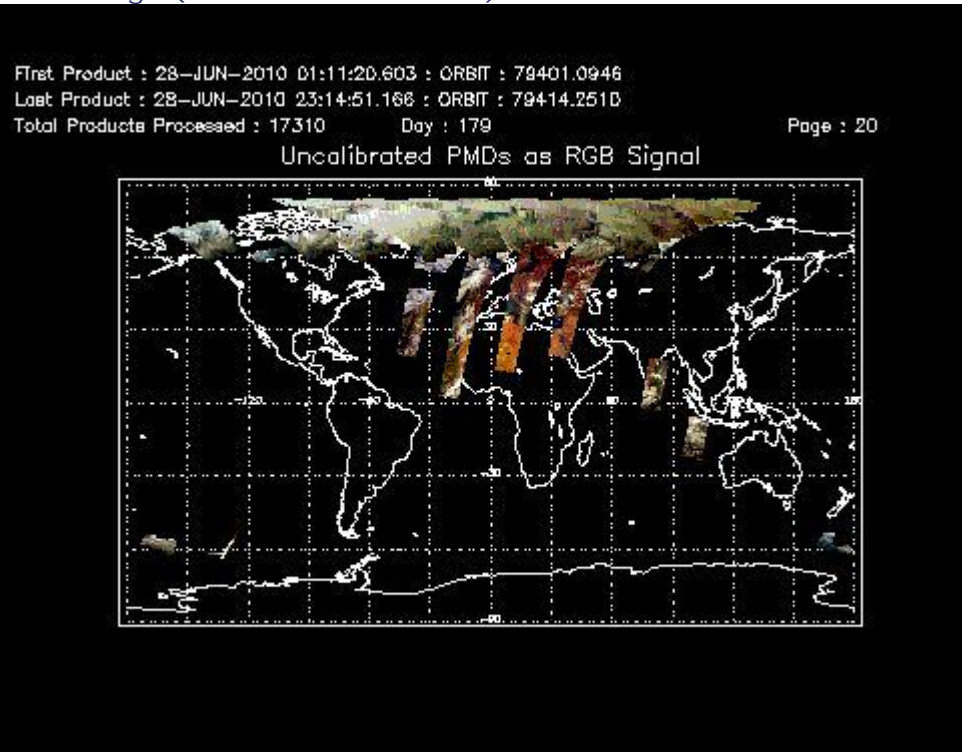
First Product : 28-JUN-2010 01:11:20.603 : ORBIT : 79401.0946
 Last Product : 28-JUN-2010 23:14:51.166 : ORBIT : 79414.2510
 Total Products Processed : 17310 Day : 179

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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 | 18:02:32 | -- | 79411 | No Start | -- | 14430 |

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