

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|---|
| Report Version | GOMEver3_3 |
| Report of Day | 15-JUN-2010 |
| Start Time of First Product | 23:45:50 (14-Jun) |
| Stop Time of Last Product | 23:23:20 |
| Number of EGOI Products analysed | 38 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | <i>Narrow Swath continued from previous day, stop orbit 79225</i> |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100615BEEP3035.E2 | 15-JUN-2010 | 03:23:20.280 |
| EGOI_100615GSEP8535.E2 | 15-JUN-2010 | 01:19:39.030 |
| EGOI_100615GSEP8567.E2 | 15-JUN-2010 | 02:56:54.620 |
| EGOI_100615GSEP8595.E2 | 15-JUN-2010 | 04:38:55.237 |
| EGOI_100615GSEP8601.E2 | 15-JUN-2010 | 06:20:48.367 |
| EGOI_100615KSEP3669.E2 | 14-JUN-2010 | 23:45:50.451 |
| EGOI_100615KSEP3682.E2 | 15-JUN-2010 | 06:38:15.464 |
| EGOI_100615KSEP3700.E2 | 15-JUN-2010 | 08:18:11.581 |
| EGOI_100615KSEP3719.E2 | 15-JUN-2010 | 09:57:51.187 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100615KSEP3740.E2 | 15-JUN-2010 | 11:37:26.294 |
| EGOI_100615KSEP3758.E2 | 15-JUN-2010 | 13:16:29.897 |
| EGOI_100615KSEP3767.E2 | 15-JUN-2010 | 14:55:12.500 |
| EGOI_100615KSEP3782.E2 | 15-JUN-2010 | 16:32:50.598 |
| EGOI_100615KSEP3810.E2 | 15-JUN-2010 | 18:10:48.193 |
| EGOI_100615KSEP3841.E2 | 15-JUN-2010 | 19:49:12.796 |
| EGOI_100615KSEP3862.E2 | 15-JUN-2010 | 21:29:47.906 |
| EGOI_100615KSEP3880.E2 | 15-JUN-2010 | 23:12:42.532 |
| EGOI_100615MAEP3334.E2 | 15-JUN-2010 | 08:26:35.632 |
| EGOI_100615MAEP3351.E2 | 15-JUN-2010 | 10:05:19.735 |
| EGOI_100615MAEP3368.E2 | 15-JUN-2010 | 21:22:05.863 |
| EGOI_100615MMEP0004.E2 | 15-JUN-2010 | 15:44:59.305 |
| EGOI_100615MMEP0011.E2 | 15-JUN-2010 | 17:25:14.916 |
| EGOI_100615MMEP0017.E2 | 15-JUN-2010 | 19:04:05.017 |
| EGOI_100615MMEP0025.E2 | 15-JUN-2010 | 20:43:07.121 |
| EGOI_100615MMEP0034.E2 | 15-JUN-2010 | 22:23:13.731 |
| EGOI_100615MMEP9969.E2 | 15-JUN-2010 | 00:35:43.257 |
| EGOI_100615MMEP9976.E2 | 15-JUN-2010 | 02:17:54.378 |
| EGOI_100615MMEP9985.E2 | 15-JUN-2010 | 12:25:46.091 |
| EGOI_100615MMEP9994.E2 | 15-JUN-2010 | 14:05:30.198 |
| EGOI_100615MSEP8967.E2 | 15-JUN-2010 | 10:13:00.283 |
| EGOI_100615MSEP8993.E2 | 15-JUN-2010 | 11:50:23.372 |
| EGOI_100615MSEP9014.E2 | 15-JUN-2010 | 13:32:14.996 |
| EGOI_100615MSEP9031.E2 | 15-JUN-2010 | 21:23:59.874 |
| EGOI_100615MSEP9063.E2 | 15-JUN-2010 | 22:59:06.450 |
| EGOI_100615SGEP6320.E2 | 15-JUN-2010 | 01:58:42.261 |
| EGOI_100615SGEP6326.E2 | 15-JUN-2010 | 03:35:36.854 |
| EGOI_100615SGEP6333.E2 | 15-JUN-2010 | 14:31:13.855 |
| EGOI_100615SGEP6340.E2 | 15-JUN-2010 | 16:10:00.961 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 79219 | 15-JUN-2010 | 08:16:36.626 | 08:18:11.581 | 94.955000 |
| GS | 79215 | 15-JUN-2010 | 01:18:14.767 | 01:19:39.030 | 84.263000 |
| GS | 79216 | 15-JUN-2010 | 02:55:33.868 | 02:56:54.620 | 80.752000 |
| GS | 79217 | 15-JUN-2010 | 04:37:46.988 | 04:38:55.236 | 68.248000 |
| BE | 79216 | 15-JUN-2010 | 03:21:37.645 | 03:23:20.280 | 102.63500 |
| SG | 79216 | 15-JUN-2010 | 03:32:34.728 | 03:35:36.854 | 182.12600 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 79214 | 15-JUN-2010 | 00:23:24.214 | 00:38:02.355 | 878.14100 |
| BE | 79215 | 15-JUN-2010 | 01:43:12.879 | 01:53:46.466 | 633.58700 |
| HO | 79215 | 15-JUN-2010 | 02:07:51.851 | 02:13:39.960 | 348.10900 |
| MM | 79216 | 15-JUN-2010 | 04:00:36.264 | 04:07:10.548 | 394.28400 |
| MI | 79216 | 15-JUN-2010 | 02:51:12.202 | 03:03:49.220 | 757.01800 |
| CM | 79216 | 15-JUN-2010 | 02:52:14.012 | 03:00:18.994 | 484.98200 |
| CM | 79216 | 15-JUN-2010 | 04:29:10.263 | 04:41:12.740 | 722.47700 |
| MM | 79217 | 15-JUN-2010 | 05:43:11.040 | 05:49:02.376 | 351.33600 |
| MI | 79217 | 15-JUN-2010 | 04:31:19.734 | 04:42:23.024 | 663.29000 |
| MM | 79218 | 15-JUN-2010 | 07:24:26.600 | 07:32:02.076 | 455.47600 |
| JO | 79218 | 15-JUN-2010 | 07:03:36.816 | 07:15:57.885 | 741.06900 |
| MM | 79219 | 15-JUN-2010 | 09:04:57.566 | 09:14:53.130 | 595.56400 |
| JO | 79219 | 15-JUN-2010 | 08:41:22.659 | 08:56:05.178 | 882.51900 |
| MM | 79220 | 15-JUN-2010 | 10:45:09.319 | 10:56:48.601 | 699.28200 |
| KS | 79220 | 15-JUN-2010 | 09:56:14.072 | 10:10:11.901 | 837.82900 |
| MA | 79220 | 15-JUN-2010 | 10:04:17.074 | 10:17:17.263 | 780.18900 |
| MS | 79220 | 15-JUN-2010 | 10:11:18.488 | 10:19:22.683 | 484.19500 |
| MM | 79221 | 15-JUN-2010 | 12:25:07.530 | 12:37:39.473 | 751.94300 |
| KS | 79221 | 15-JUN-2010 | 11:35:45.445 | 11:49:19.344 | 813.89900 |
| MA | 79221 | 15-JUN-2010 | 11:45:54.590 | 11:52:02.065 | 367.47500 |
| MS | 79221 | 15-JUN-2010 | 11:48:38.214 | 12:01:57.344 | 799.13000 |
| HO | 79222 | 15-JUN-2010 | 14:13:43.466 | 14:26:38.785 | 775.31900 |
| MM | 79222 | 15-JUN-2010 | 14:04:51.464 | 14:17:35.315 | 763.85100 |
| KS | 79222 | 15-JUN-2010 | 13:14:53.004 | 13:27:17.325 | 744.32100 |
| SG | 79222 | 15-JUN-2010 | 14:29:21.922 | 14:40:54.414 | 692.49200 |
| BE | 79223 | 15-JUN-2010 | 14:38:27.168 | 14:51:30.358 | 783.19000 |
| MM | 79223 | 15-JUN-2010 | 15:44:19.301 | 15:56:55.671 | 756.37000 |
| MI | 79223 | 15-JUN-2010 | 15:11:26.343 | 15:23:29.861 | 723.51800 |
| KS | 79223 | 15-JUN-2010 | 14:53:31.291 | 15:05:01.535 | 690.24400 |
| GS | 79223 | 15-JUN-2010 | 15:05:11.098 | 15:18:13.917 | 782.81900 |
| SG | 79223 | 15-JUN-2010 | 16:07:51.481 | 16:20:36.325 | 764.84400 |
| CM | 79223 | 15-JUN-2010 | 15:15:43.620 | 15:23:48.357 | 484.73700 |
| MM | 79224 | 15-JUN-2010 | 17:23:32.296 | 17:36:03.878 | 751.58200 |
| MI | 79224 | 15-JUN-2010 | 16:50:41.976 | 17:02:37.290 | 715.31400 |
| KS | 79224 | 15-JUN-2010 | 16:31:09.098 | 16:43:21.469 | 732.37100 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| GS | 79224 | 15-JUN-2010 | 16:44:30.652 | 16:57:46.850 | 796.19800 |
| CM | 79224 | 15-JUN-2010 | 16:53:07.824 | 17:05:05.452 | 717.62800 |
| MM | 79225 | 15-JUN-2010 | 19:02:40.715 | 19:15:18.687 | 757.97200 |
| KS | 79225 | 15-JUN-2010 | 18:08:58.102 | 18:22:25.003 | 806.90100 |
| JO | 79225 | 15-JUN-2010 | 19:23:40.546 | 19:34:38.893 | 658.34700 |
| MM | 79226 | 15-JUN-2010 | 20:42:04.904 | 20:54:48.853 | 763.94900 |
| MA | 79226 | 15-JUN-2010 | 19:41:33.374 | 19:53:48.579 | 735.20500 |
| KS | 79226 | 15-JUN-2010 | 19:47:55.184 | 20:01:54.573 | 839.38900 |
| JO | 79226 | 15-JUN-2010 | 21:01:17.582 | 21:16:12.160 | 894.57800 |
| HO | 79227 | 15-JUN-2010 | 22:15:19.634 | 22:26:43.828 | 684.19400 |
| MM | 79227 | 15-JUN-2010 | 22:22:08.275 | 22:34:35.124 | 746.84900 |
| MA | 79227 | 15-JUN-2010 | 21:20:18.114 | 21:33:30.192 | 792.07800 |
| KS | 79227 | 15-JUN-2010 | 21:28:38.603 | 21:41:32.237 | 773.63400 |
| JO | 79227 | 15-JUN-2010 | 22:43:41.016 | 22:50:33.591 | 412.57500 |
| HO | 79228 | 15-JUN-2010 | 23:52:19.125 | 00:06:48.354 | 869.22900 |
| MS | 79228 | 15-JUN-2010 | 22:57:55.167 | 23:11:19.381 | 804.21400 |
| KS | 79228 | 15-JUN-2010 | 23:11:51.265 | 23:20:54.465 | 543.20000 |

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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 |

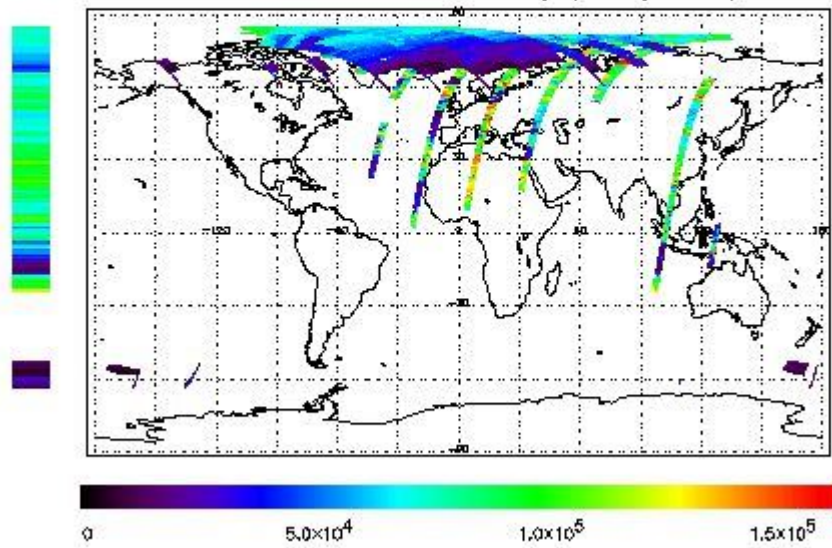
2.2 - Daily Plots

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

FRet Product : 14-JUN-2010 23:45:50.451 : ORBIT : 79214.1590
 Last Product : 15-JUN-2010 23:23:20.098 : ORBIT : 79228.2496
 Total Products Processed : 18332 Day : 166 Page : 21

778 nm Uncalibrated Intensity (Binary Units)

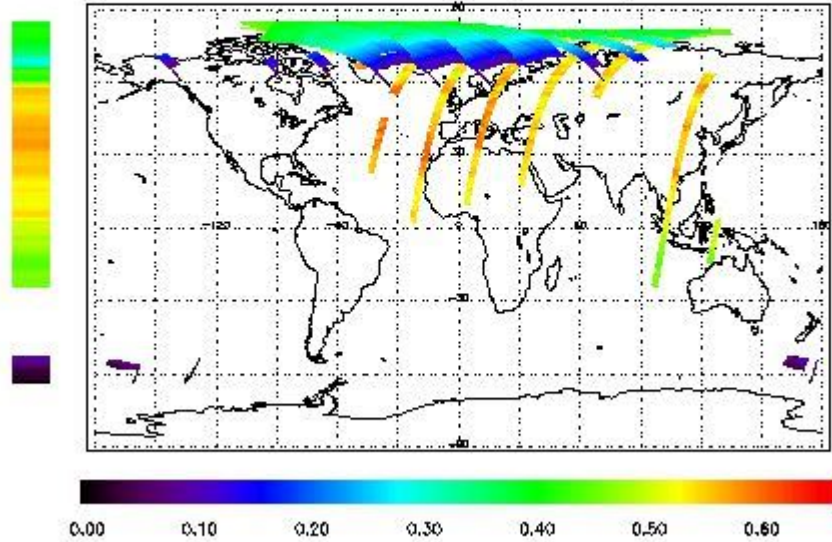


Ozone Line Ratio

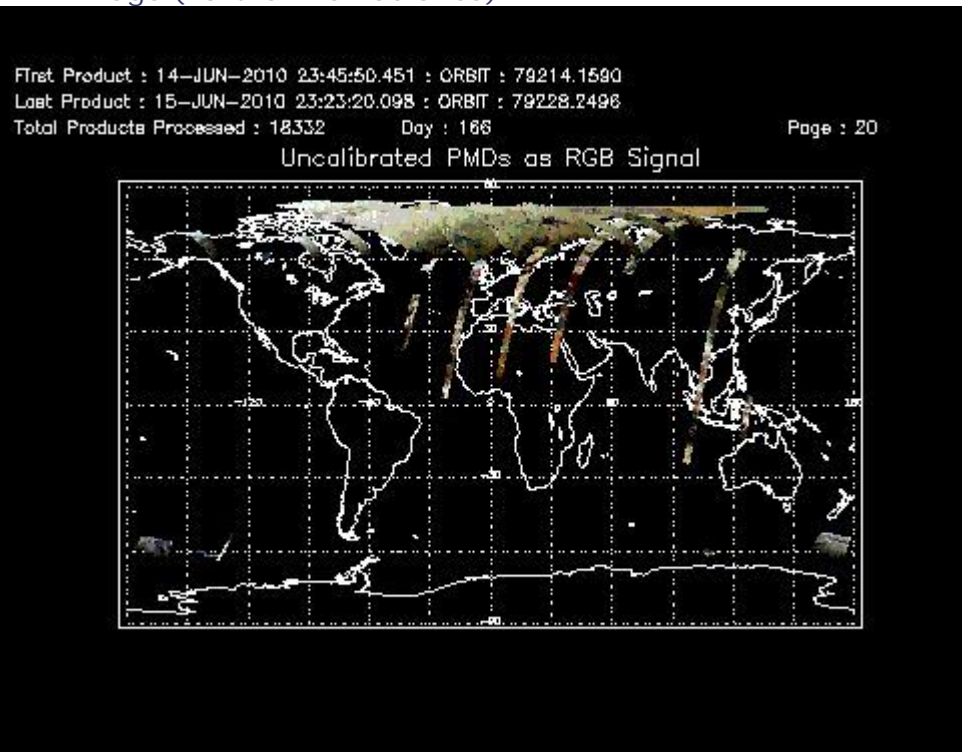
First Product : 14-JUN-2010 23:45:50.451 : ORBIT : 79214.1590
 Last Product : 15-JUN-2010 23:23:20.098 : ORBIT : 79228.2496
 Total Products Processed : 18332 Day : 166

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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 | 18:12:22.704 | -- | 79225 | Yes | -- | 14640 |

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 |
|------------|----------|-------------|-----------|
| 20:00 | 18:00 | 79212 | 79225 |

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