

GOME Daily Report

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1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|-------------------|
| Report Version | GOMEver3_3 |
| Report of Day | 13-MAR-2010 |
| Start Time of First Product | 23:53:32 (12-Mar) |
| Stop Time of Last Product | 22:38:12 |
| Number of EGOI Products analysed | 35 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | Nominal Data |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_100313BEEP2132.E2 | 13-MAR-2010 | 02:38:13.698 |
| EGOI_100313BEEP2138.E2 | 13-MAR-2010 | 04:18:11.309 |
| EGOI_100313CMEP7018.E2 | 13-MAR-2010 | 03:44:42.603 |
| EGOI_100313GSEP1628.E2 | 13-MAR-2010 | 02:11:49.534 |
| EGOI_100313GSEP1655.E2 | 13-MAR-2010 | 03:51:50.149 |
| EGOI_100313GSEP1663.E2 | 13-MAR-2010 | 05:34:20.779 |
| EGOI_100313HLEP5280.E2 | 13-MAR-2010 | 21:35:07.179 |
| EGOI_100313KSEP1937.E2 | 13-MAR-2010 | 07:32:38.006 |
| EGOI_100313KSEP1960.E2 | 13-MAR-2010 | 09:12:38.616 |

| | | |
|------------------------|-------------|--------------|
| EGOI_100313KSEP1985.E2 | 13-MAR-2010 | 10:52:16.728 |
| EGOI_100313KSEP2017.E2 | 13-MAR-2010 | 12:31:36.844 |
| EGOI_100313KSEP2033.E2 | 13-MAR-2010 | 14:10:32.947 |
| EGOI_100313KSEP2062.E2 | 13-MAR-2010 | 15:48:27.555 |
| EGOI_100313KSEP2095.E2 | 13-MAR-2010 | 17:26:20.650 |
| EGOI_100313KSEP2131.E2 | 13-MAR-2010 | 19:04:12.254 |
| EGOI_100313KSEP2166.E2 | 13-MAR-2010 | 20:43:48.866 |
| EGOI_100313KSEP2195.E2 | 13-MAR-2010 | 22:25:46.488 |
| EGOI_100313MIEP5943.E2 | 13-MAR-2010 | 02:09:40.522 |
| EGOI_100313MIEP5965.E2 | 13-MAR-2010 | 03:46:30.617 |
| EGOI_100313MIEP5984.E2 | 13-MAR-2010 | 14:30:06.064 |
| EGOI_100313MIEP6002.E2 | 13-MAR-2010 | 16:06:35.164 |
| EGOI_100313MIEP6022.E2 | 13-MAR-2010 | 17:48:59.787 |
| EGOI_100313MMEP5461.E2 | 12-MAR-2010 | 23:53:32.180 |
| EGOI_100313MMEP5466.E2 | 13-MAR-2010 | 01:31:20.783 |
| EGOI_100313MMEP5473.E2 | 13-MAR-2010 | 03:13:54.414 |
| EGOI_100313MMEP5483.E2 | 13-MAR-2010 | 08:19:41.295 |
| EGOI_100313MMEP5489.E2 | 13-MAR-2010 | 10:00:14.910 |
| EGOI_100313MMEP5500.E2 | 13-MAR-2010 | 11:40:29.025 |
| EGOI_100313MMEP5505.E2 | 13-MAR-2010 | 14:59:46.749 |
| EGOI_100313MMEP5508.E2 | 13-MAR-2010 | 16:39:33.864 |
| EGOI_100313MSEP8122.E2 | 13-MAR-2010 | 00:26:32.383 |
| EGOI_100313MSEP8146.E2 | 13-MAR-2010 | 11:05:30.310 |
| EGOI_100313MSEP8173.E2 | 13-MAR-2010 | 12:45:15.926 |
| EGOI_100313MSEP8200.E2 | 13-MAR-2010 | 22:15:01.426 |
| EGOI_100313SGEP4249.E2 | 13-MAR-2010 | 17:08:52.044 |

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1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 77873 | 13-MAR-2010 | 07:31:07.813 | 07:32:38.005 | 90.192000 |
| KS | 77874 | 13-MAR-2010 | 09:10:41.217 | 09:12:38.616 | 117.399000 |
| KS | 77875 | 13-MAR-2010 | 10:50:17.506 | 10:52:16.727 | 119.221000 |
| KS | 77876 | 13-MAR-2010 | 12:29:38.333 | 12:31:36.844 | 118.511000 |
| KS | 77877 | 13-MAR-2010 | 14:08:31.234 | 14:10:32.946 | 121.712000 |
| KS | 77878 | 13-MAR-2010 | 15:46:25.765 | 15:48:27.555 | 121.790000 |
| KS | 77879 | 13-MAR-2010 | 17:24:18.516 | 17:26:20.649 | 122.133000 |
| KS | 77880 | 13-MAR-2010 | 19:02:30.153 | 19:04:12.253 | 102.100000 |
| KS | 77881 | 13-MAR-2010 | 20:42:20.351 | 20:43:48.866 | 88.515000 |
| KS | 77882 | 13-MAR-2010 | 22:24:17.860 | 22:25:46.487 | 88.627000 |
| GS | 77870 | 13-MAR-2010 | 02:10:39.722 | 02:11:49.533 | 69.811000 |
| GS | 77871 | 13-MAR-2010 | 03:50:17.158 | 03:51:50.148 | 92.990000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 77869 | 13-MAR-2010 | 00:24:58.333 | 00:26:32.382 | 94.049000 |
| MS | 77875 | 13-MAR-2010 | 11:03:28.051 | 11:05:30.310 | 122.25900 |
| MS | 77876 | 13-MAR-2010 | 12:43:10.566 | 12:45:15.925 | 125.35900 |
| MS | 77882 | 13-MAR-2010 | 22:13:29.081 | 22:15:01.425 | 92.344000 |
| MS | 77883 | 13-MAR-2010 | 23:52:23.174 | 23:54:06.533 | 103.35900 |
| MI | 77870 | 13-MAR-2010 | 02:07:55.232 | 02:09:40.522 | 105.29000 |
| MI | 77871 | 13-MAR-2010 | 03:44:41.309 | 03:46:30.616 | 109.30700 |
| MI | 77877 | 13-MAR-2010 | 14:28:29.537 | 14:30:06.063 | 96.526000 |
| MI | 77878 | 13-MAR-2010 | 16:04:46.282 | 16:06:35.164 | 108.88200 |
| MI | 77879 | 13-MAR-2010 | 17:47:23.317 | 17:48:59.786 | 96.469000 |
| MM | 77875 | 13-MAR-2010 | 11:39:27.154 | 11:40:29.024 | 61.870000 |
| MM | 77878 | 13-MAR-2010 | 16:38:12.365 | 16:39:33.864 | 81.499000 |
| BE | 77870 | 13-MAR-2010 | 02:36:14.397 | 02:38:13.697 | 119.30000 |
| BE | 77871 | 13-MAR-2010 | 04:16:09.711 | 04:18:11.309 | 121.59800 |

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1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| MM | 77868 | 12-MAR-2010 | 23:48:39.232 | 00:00:17.456 | 698.22400 |
| HO | 77869 | 13-MAR-2010 | 01:18:39.507 | 01:31:19.390 | 759.88300 |
| GS | 77869 | 13-MAR-2010 | 00:35:33.460 | 00:42:46.613 | 433.15300 |
| SG | 77870 | 13-MAR-2010 | 02:47:47.171 | 03:00:36.550 | 769.37900 |
| CM | 77870 | 13-MAR-2010 | 03:43:47.133 | 03:55:54.806 | 727.67300 |
| MM | 77871 | 13-MAR-2010 | 04:56:26.717 | 05:02:17.523 | 350.80600 |
| SG | 77871 | 13-MAR-2010 | 04:27:34.919 | 04:39:00.062 | 685.14300 |
| MM | 77872 | 13-MAR-2010 | 06:38:17.454 | 06:44:53.260 | 395.80600 |
| KS | 77872 | 13-MAR-2010 | 05:52:41.827 | 05:56:43.246 | 241.41900 |
| CM | 77872 | 13-MAR-2010 | 05:25:39.731 | 05:32:48.299 | 428.56800 |
| JO | 77872 | 13-MAR-2010 | 06:22:01.994 | 06:28:01.964 | 359.97000 |
| JO | 77873 | 13-MAR-2010 | 07:55:55.595 | 08:10:46.584 | 890.98900 |
| MA | 77874 | 13-MAR-2010 | 09:19:00.979 | 09:32:20.897 | 799.91800 |
| JO | 77874 | 13-MAR-2010 | 09:37:12.119 | 09:48:35.833 | 683.71400 |
| MA | 77875 | 13-MAR-2010 | 10:58:49.004 | 11:09:17.273 | 628.26900 |
| MM | 77876 | 13-MAR-2010 | 13:19:17.844 | 13:32:00.097 | 762.25300 |
| HO | 77877 | 13-MAR-2010 | 15:08:50.649 | 15:17:23.736 | 513.08700 |
| GS | 77877 | 13-MAR-2010 | 14:20:37.972 | 14:30:54.262 | 616.29000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| SG | 77877 | 13-MAR-2010 | 15:21:58.720 | 15:35:51.289 | 832.56900 |
| BE | 77878 | 13-MAR-2010 | 15:34:18.815 | 15:44:23.439 | 604.62400 |
| GS | 77878 | 13-MAR-2010 | 15:58:53.797 | 16:12:49.830 | 836.03300 |
| CM | 77878 | 13-MAR-2010 | 16:07:41.543 | 16:19:53.178 | 731.63500 |
| MM | 77879 | 13-MAR-2010 | 18:17:20.904 | 18:29:54.887 | 753.98300 |
| GS | 77879 | 13-MAR-2010 | 17:39:06.797 | 17:49:56.266 | 649.46900 |
| CM | 77879 | 13-MAR-2010 | 17:49:02.211 | 17:56:15.842 | 433.63100 |
| MM | 77880 | 13-MAR-2010 | 19:56:34.921 | 20:09:17.544 | 762.62300 |
| MA | 77880 | 13-MAR-2010 | 19:00:51.429 | 19:05:59.761 | 308.33200 |
| JO | 77880 | 13-MAR-2010 | 20:16:02.666 | 20:30:39.248 | 876.58200 |
| MM | 77881 | 13-MAR-2010 | 21:36:17.672 | 21:48:56.674 | 759.00200 |
| MA | 77881 | 13-MAR-2010 | 20:34:25.644 | 20:48:06.171 | 820.52700 |
| JO | 77881 | 13-MAR-2010 | 21:56:01.260 | 22:08:39.124 | 757.86400 |
| HO | 77882 | 13-MAR-2010 | 23:07:28.545 | 23:21:12.867 | 824.32200 |
| MM | 77882 | 13-MAR-2010 | 23:16:50.464 | 23:28:50.809 | 720.34500 |
| MA | 77882 | 13-MAR-2010 | 22:17:25.167 | 22:26:22.702 | 537.53500 |

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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 | Polar View operated |
| Polarization Detectors | OK |
| FPA Temperatures A | OK |
| FPA Temperaturas B | OK |
| Charge Amp Temperatures | OK |

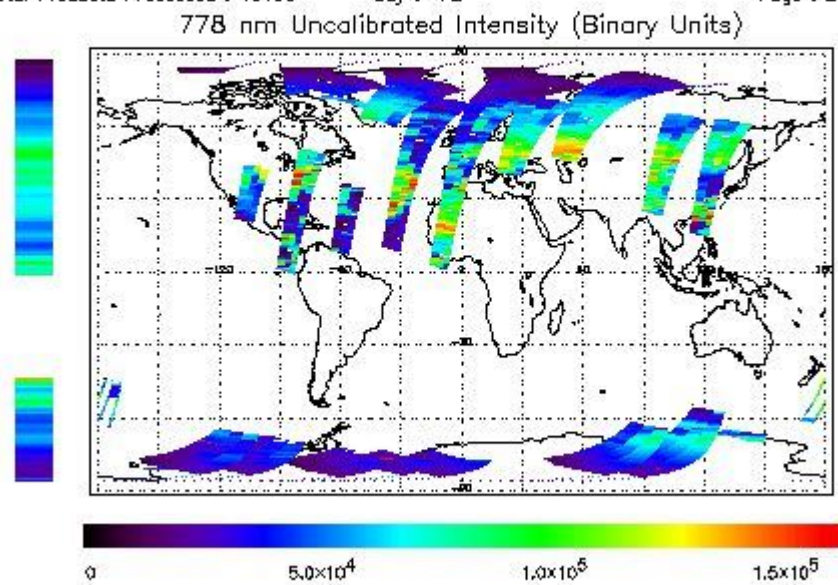
| | |
|--------------------------------------|----|
| Other Temperatures A | OK |
| DDHU Temperatures | OK |
| Optical Bench Temperatures | OK |
| Other Temperatures B | OK |
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected 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 : 12-MAR-2010 23:53:32.180 : ORBIT : 77868.6926
 Last Product : 13-MAR-2010 22:38:12.070 : ORBIT : 77882.2580
 Total Products Processed : 16196 Day : 72 Page : 21

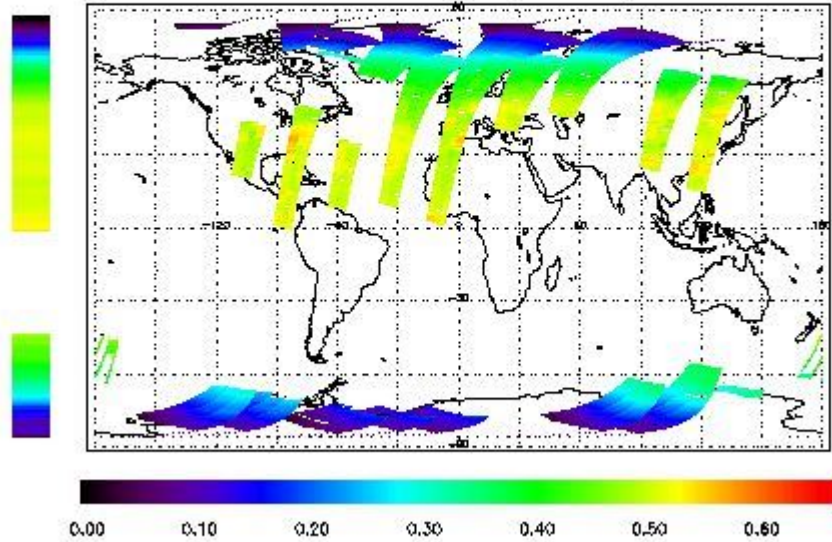


Ozone Line Ratio

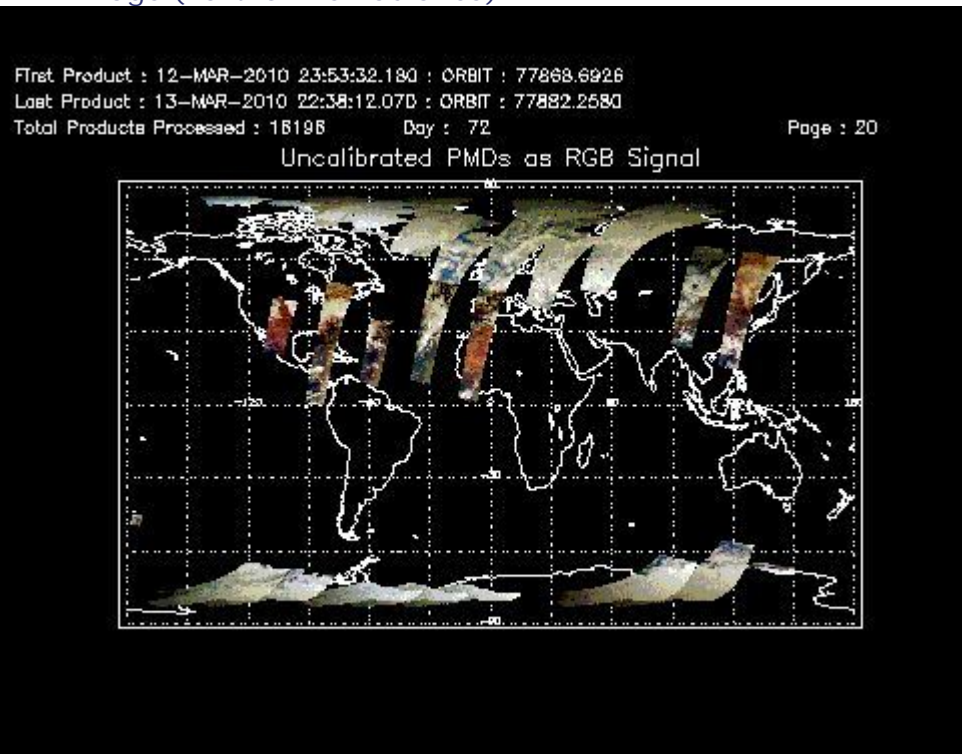
First Product : 12-MAR-2010 23:53:32.180 : ORBIT : 77868.6926
 Last Product : 13-MAR-2010 22:38:12.070 : ORBIT : 77882.2580
 Total Products Processed : 18198 Day : 72

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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 | 14:13:02.962 | -- | 77877 | Yes | -- | 15282 |

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 |
|--------------|----------|-------------|-----------|
| 07:00 10-Mar | -- | 77830 | -- |

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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