

GOME Daily Report

INDEX

1. [General Info](#)
 - 1.1 [Report Summary](#)
 - 1.2 [List of received products](#)
 - 1.3 [List of data gaps](#)
 - 1.4 [List of missing products](#)
 - 1.5 [List of corrupted products](#)
2. [Instrument Indicators and Daily Plots](#)
 - 2.1 [Instrument Indicators Status](#)
 - 2.2 [Daily Plots](#)
3. [Instrument Calibration](#)
 - 3.1 [Solar Calibration \(daily/TST44\)](#)
 - 3.2 [Lamp Calibration \(quarterly/TST44\)](#)
4. [Instrument Anomalies](#)
 - 4.1 [Single Event Upset \(SEU\)](#)
 - 4.2 [Instrument Off](#)
 - 4.3 [Cooler Switchings](#)
5. [Instrument Operations](#)
 - 5.1 [Timeline Interruptions](#)
 - 5.2 [TST44](#)
 - 5.3 [Power Cycle](#)
 - 5.4 [Wrong Command Execution](#)
 - 5.5 [Narrow Swath Timeline](#)
 - 5.6 [Seasonal Operations](#)

1 - General Info

1.1 - Report Summary

| Item | Value |
|-------------------------------------|---|
| Report Version | GOMEver3_3 |
| Report of Day | 22-FEB-2011 |
| Start Time of First Product | 00:54:24 |
| Stop Time of Last Product | 23:03:46 |
| Number of EGOI Products analysed | 30 |
| Number of corrupted products | -- |
| Anomalies and/or Special Operations | no solar calibration measurements available due to the execution of an ERS2 orbit manoeuvre |

1.2 - List of received products

| Name | Date | Time |
|------------------------|-------------|--------------|
| EGOI_110222CMEP4341.E2 | 22-FEB-2011 | 02:35:02.275 |
| EGOI_110222CMEP4347.E2 | 22-FEB-2011 | 04:13:49.382 |
| EGOI_110222CMEP4353.E2 | 22-FEB-2011 | 14:58:15.843 |
| EGOI_110222CMEP4359.E2 | 22-FEB-2011 | 16:34:02.935 |
| EGOI_110222GSEP6395.E2 | 22-FEB-2011 | 01:00:55.700 |
| EGOI_110222GSEP6401.E2 | 22-FEB-2011 | 02:37:39.795 |
| EGOI_110222GSEP6407.E2 | 22-FEB-2011 | 04:18:41.913 |
| EGOI_110222GSEP6413.E2 | 22-FEB-2011 | 06:00:57.548 |
| EGOI_110222KSEP3863.E2 | 22-FEB-2011 | 06:19:11.154 |

| | | |
|------------------------|-------------|--------------|
| EGOI_110222KSEP3869.E2 | 22-FEB-2011 | 07:59:08.769 |
| EGOI_110222KSEP3875.E2 | 22-FEB-2011 | 09:38:46.881 |
| EGOI_110222KSEP3881.E2 | 22-FEB-2011 | 11:18:23.493 |
| EGOI_110222KSEP3887.E2 | 22-FEB-2011 | 12:57:34.605 |
| EGOI_110222KSEP3893.E2 | 22-FEB-2011 | 14:36:24.710 |
| EGOI_110222KSEP3899.E2 | 22-FEB-2011 | 16:14:05.813 |
| EGOI_110222KSEP3905.E2 | 22-FEB-2011 | 17:52:01.910 |
| EGOI_110222KSEP3911.E2 | 22-FEB-2011 | 19:29:31.006 |
| EGOI_110222KSEP3917.E2 | 22-FEB-2011 | 21:09:37.617 |
| EGOI_110222KSEP3923.E2 | 22-FEB-2011 | 22:52:06.745 |
| EGOI_110222MAEP3011.E2 | 22-FEB-2011 | 08:13:07.351 |
| EGOI_110222MIEP4023.E2 | 22-FEB-2011 | 02:34:23.271 |
| EGOI_110222MIEP4029.E2 | 22-FEB-2011 | 04:13:47.882 |
| EGOI_110222MIEP4035.E2 | 22-FEB-2011 | 14:54:36.819 |
| EGOI_110222MIEP4041.E2 | 22-FEB-2011 | 16:32:50.927 |
| EGOI_110222MSEP8033.E2 | 22-FEB-2011 | 00:54:24.160 |
| EGOI_110222MSEP8041.E2 | 22-FEB-2011 | 11:31:13.073 |
| EGOI_110222MSEP8048.E2 | 22-FEB-2011 | 13:11:54.193 |
| EGOI_110222MSEP8056.E2 | 22-FEB-2011 | 22:39:33.666 |
| EGOI_110222SGEP1715.E2 | 22-FEB-2011 | 04:57:13.648 |
| EGOI_110222SGEP1720.E2 | 22-FEB-2011 | 14:17:17.092 |

[[BACK TO MENU](#)]

1.3 - List of data gaps

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| KS | 82825 | 22-FEB-2011 | 06:17:38.838 | 06:19:11.153 | 92.315000 |
| KS | 82826 | 22-FEB-2011 | 07:56:42.144 | 07:59:08.769 | 146.62500 |
| KS | 82827 | 22-FEB-2011 | 09:36:18.517 | 09:38:46.881 | 148.36400 |
| KS | 82828 | 22-FEB-2011 | 11:15:52.471 | 11:18:23.492 | 151.02100 |
| KS | 82829 | 22-FEB-2011 | 12:55:06.353 | 12:57:34.605 | 148.25200 |
| KS | 82830 | 22-FEB-2011 | 14:33:51.554 | 14:36:24.710 | 153.15600 |
| KS | 82831 | 22-FEB-2011 | 16:11:32.922 | 16:14:05.813 | 152.89100 |
| KS | 82832 | 22-FEB-2011 | 17:49:27.397 | 17:52:01.909 | 154.51200 |
| KS | 82833 | 22-FEB-2011 | 19:28:00.448 | 19:29:31.005 | 90.557000 |
| KS | 82834 | 22-FEB-2011 | 21:08:19.630 | 21:09:37.616 | 77.986000 |
| KS | 82835 | 22-FEB-2011 | 22:50:57.520 | 22:52:06.745 | 69.225000 |
| GS | 82822 | 22-FEB-2011 | 00:59:22.513 | 01:00:55.700 | 93.187000 |
| GS | 82823 | 22-FEB-2011 | 02:35:44.914 | 02:37:39.795 | 114.88100 |
| GS | 82824 | 22-FEB-2011 | 04:16:47.409 | 04:18:41.912 | 114.50300 |
| MS | 82828 | 22-FEB-2011 | 11:28:48.906 | 11:31:13.073 | 144.16700 |
| MS | 82829 | 22-FEB-2011 | 13:09:38.679 | 13:11:54.193 | 135.51400 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MS | 82835 | 22-FEB-2011 | 22:38:18.713 | 22:39:33.665 | 74.952000 |
| MA | 82826 | 22-FEB-2011 | 08:06:33.525 | 08:13:07.351 | 393.82600 |
| MI | 82823 | 22-FEB-2011 | 02:32:00.884 | 02:34:23.271 | 142.38700 |
| MI | 82824 | 22-FEB-2011 | 04:10:42.491 | 04:13:47.882 | 185.39100 |
| MI | 82830 | 22-FEB-2011 | 14:52:15.712 | 14:54:36.818 | 141.10600 |
| MI | 82831 | 22-FEB-2011 | 16:30:29.450 | 16:32:50.926 | 141.47600 |
| SG | 82824 | 22-FEB-2011 | 04:54:46.132 | 04:57:13.648 | 147.51600 |
| CM | 82831 | 22-FEB-2011 | 16:34:44.938 | 16:45:30.049 | 645.11100 |

[[BACK TO MENU](#)]

1.4 - List of missing products

| Station | Orbit | Date | Start Time | Stop Time | Duration (s) |
|---------|-------|-------------|--------------|--------------|--------------|
| HO | 82821 | 22-FEB-2011 | 00:03:36.683 | 00:18:10.307 | 873.62400 |
| MM | 82821 | 22-FEB-2011 | 00:14:45.797 | 00:26:02.050 | 676.25300 |
| HO | 82822 | 22-FEB-2011 | 01:45:47.492 | 01:56:09.934 | 622.44200 |
| MM | 82822 | 22-FEB-2011 | 01:56:58.468 | 02:06:18.136 | 559.66800 |
| BE | 82823 | 22-FEB-2011 | 03:01:42.570 | 03:15:07.690 | 805.12000 |
| MM | 82823 | 22-FEB-2011 | 03:39:58.876 | 03:46:57.547 | 418.67100 |
| SG | 82823 | 22-FEB-2011 | 03:12:48.619 | 03:26:33.746 | 825.12700 |
| BE | 82824 | 22-FEB-2011 | 04:42:19.351 | 04:51:45.912 | 566.56100 |
| MM | 82824 | 22-FEB-2011 | 05:22:46.473 | 05:28:32.957 | 346.48400 |
| MM | 82825 | 22-FEB-2011 | 07:04:16.432 | 07:11:24.347 | 427.91500 |
| JO | 82825 | 22-FEB-2011 | 06:44:57.805 | 06:55:21.827 | 624.02200 |
| MM | 82826 | 22-FEB-2011 | 08:44:53.317 | 08:54:22.573 | 569.25600 |
| JO | 82826 | 22-FEB-2011 | 08:21:20.670 | 08:36:21.355 | 900.68500 |
| MM | 82827 | 22-FEB-2011 | 10:25:08.087 | 10:36:30.734 | 682.64700 |
| MA | 82827 | 22-FEB-2011 | 09:44:21.695 | 09:58:02.486 | 820.79100 |
| JO | 82827 | 22-FEB-2011 | 10:05:02.947 | 10:12:16.295 | 433.34800 |
| MM | 82828 | 22-FEB-2011 | 12:05:08.971 | 12:17:34.184 | 745.21300 |
| MA | 82828 | 22-FEB-2011 | 11:25:28.501 | 11:33:40.290 | 491.78900 |
| MM | 82829 | 22-FEB-2011 | 13:44:55.918 | 13:57:39.711 | 763.79300 |
| SG | 82829 | 22-FEB-2011 | 14:10:46.580 | 14:19:55.732 | 549.15200 |
| BE | 82830 | 22-FEB-2011 | 14:18:21.873 | 14:31:44.320 | 802.44700 |
| MM | 82830 | 22-FEB-2011 | 15:24:27.060 | 15:37:05.311 | 758.25100 |
| GS | 82830 | 22-FEB-2011 | 14:45:34.828 | 14:56:23.627 | 648.79900 |
| BE | 82831 | 22-FEB-2011 | 16:02:00.166 | 16:08:31.296 | 391.13000 |

| | | | | | |
|----|-------|-------------|--------------|--------------|-----------|
| MM | 82831 | 22-FEB-2011 | 17:03:42.546 | 17:16:14.170 | 751.62400 |
| GS | 82831 | 22-FEB-2011 | 16:24:31.020 | 16:38:13.530 | 822.51000 |
| MM | 82832 | 22-FEB-2011 | 18:42:50.539 | 18:55:26.641 | 756.10200 |
| GS | 82832 | 22-FEB-2011 | 18:05:14.211 | 18:14:04.354 | 530.14300 |
| JO | 82832 | 22-FEB-2011 | 19:05:16.279 | 19:12:58.636 | 462.35700 |
| MM | 82833 | 22-FEB-2011 | 20:22:09.645 | 20:34:53.475 | 763.83000 |
| MA | 82833 | 22-FEB-2011 | 19:24:22.867 | 19:33:29.828 | 546.96100 |
| JO | 82833 | 22-FEB-2011 | 20:41:24.196 | 20:56:25.442 | 901.24600 |
| HO | 82834 | 22-FEB-2011 | 21:56:39.675 | 22:06:24.231 | 584.55600 |
| MM | 82834 | 22-FEB-2011 | 22:02:03.481 | 22:14:36.688 | 753.20700 |
| MA | 82834 | 22-FEB-2011 | 21:00:04.104 | 21:13:37.211 | 813.10700 |
| JO | 82834 | 22-FEB-2011 | 22:22:29.865 | 22:32:38.840 | 608.97500 |
| HO | 82835 | 22-FEB-2011 | 23:32:31.286 | 23:46:53.395 | 862.10900 |
| MM | 82835 | 22-FEB-2011 | 23:42:51.705 | 23:54:34.336 | 702.63100 |
| MA | 82835 | 22-FEB-2011 | 22:45:40.981 | 22:50:13.004 | 272.02300 |

[[BACK TO MENU](#)]

1.5 - List of corrupted products

| Station | Orbit | Time |
|---------|-------|--------------|
| MI | 82831 | 16:40:44.973 |

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 |

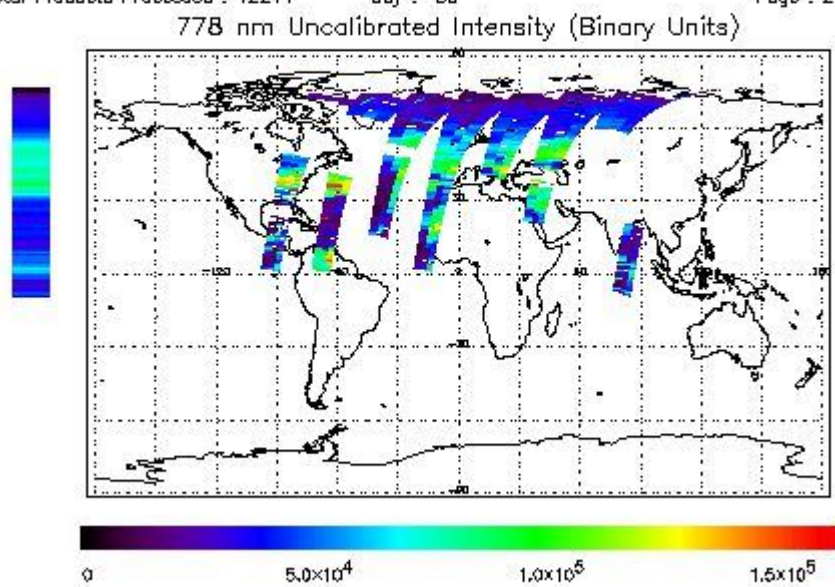
| | |
|--------------------------------------|----|
| Other Temperatures A | OK |
| DDHU Temperatures | OK |
| Optical Bench Temperatures | OK |
| Other Temperatures B | OK |
| Calibration Lamp and Instr. Status 3 | OK |
| Scan Mirror and Motor Current | OK |
| Selected Temperature A | OK |
| Selected 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 : 22-FEB-2011 00:54:24.160 : ORBIT : 82822.0405
 Last Product : 22-FEB-2011 23:03:45.819 : ORBIT : 82835.2550
 Total Products Processed : 12244 Day : 53 Page : 21

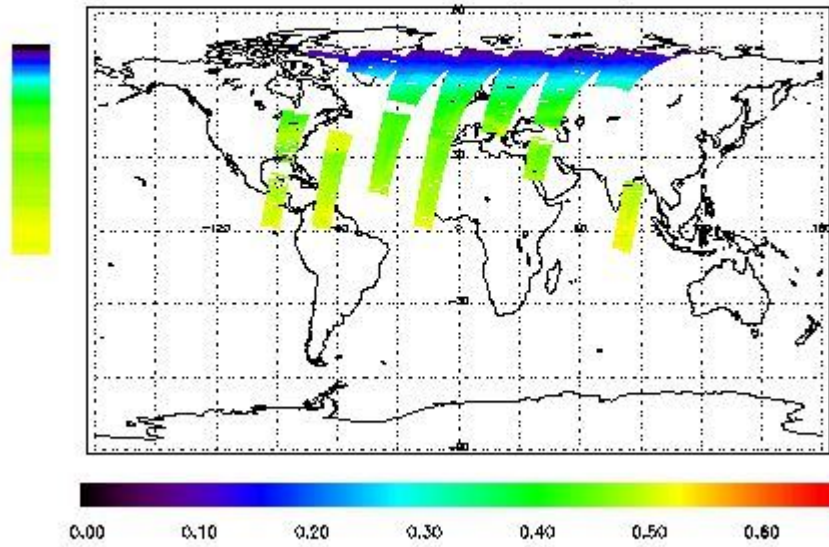


Ozone Line Ratio

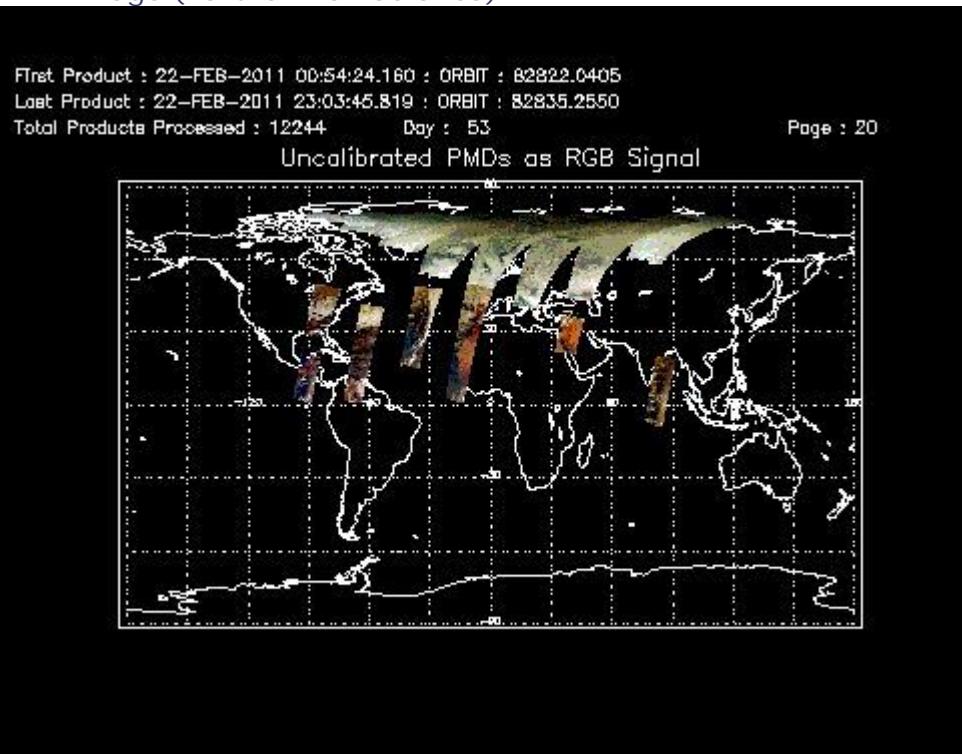
First Product : 22-FEB-2011 00:54:24.160 : ORBIT : 82822.0405
 Last Product : 22-FEB-2011 23:03:45.819 : ORBIT : 82835.2550
 Total Products Processed : 12244 Day : 53

Page : 20

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) |
|-------------------|------------|--------------|-------|---------------------------|------------------------------------|--|
| -- | -- | -- | -- | -- | -- | -- |

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 |
|------------|----------|-------------|-----------|
| -- | -- | -- | -- |

[[BACK TO MENU](#)]

(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