

# 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	11-SEP-2009
Start Time of First Product	23:52:47 (10-SEP)
Stop Time of Last Product	23:30:00
Number of EGOI Products analysed	34
Number of corrupted products	--
Anomalies and/or Special Operations	One orbit in Nadir Static View due to payload Synchronisation

### 1.2 - List of received products

Name	Date	Time
EGOI_090911BEEP0669.E2	11-SEP-2009	03:29:58.779
EGOI_090911GSEP8508.E2	11-SEP-2009	01:25:44.526
EGOI_090911GSEP8535.E2	11-SEP-2009	03:03:15.119
EGOI_090911GSEP8562.E2	11-SEP-2009	04:45:42.733
EGOI_090911GSEP8569.E2	11-SEP-2009	06:27:44.854
EGOI_090911KSEP1083.E2	10-SEP-2009	23:52:46.970
EGOI_090911KSEP1099.E2	11-SEP-2009	06:44:50.955
EGOI_090911KSEP1120.E2	11-SEP-2009	08:24:50.061
EGOI_090911KSEP1137.E2	11-SEP-2009	10:04:29.664

EGOI_090911KSEP1157.E2	11-SEP-2009	11:44:04.767
EGOI_090911KSEP1173.E2	11-SEP-2009	13:23:05.365
EGOI_090911KSEP1184.E2	11-SEP-2009	15:01:46.464
EGOI_090911KSEP1194.E2	11-SEP-2009	16:39:21.555
EGOI_090911KSEP1202.E2	11-SEP-2009	18:17:23.651
EGOI_090911KSEP1235.E2	11-SEP-2009	19:55:52.748
EGOI_090911KSEP1259.E2	11-SEP-2009	21:36:41.364
EGOI_090911KSEP1281.E2	11-SEP-2009	23:19:34.485
EGOI_090911MAEP3722.E2	11-SEP-2009	08:33:36.616
EGOI_090911MAEP3737.E2	11-SEP-2009	10:11:55.207
EGOI_090911MAEP3754.E2	11-SEP-2009	21:28:45.817
EGOI_090911MIEP8898.E2	11-SEP-2009	15:19:19.570
EGOI_090911MMEP8117.E2	11-SEP-2009	00:42:29.256
EGOI_090911MMEP8126.E2	11-SEP-2009	10:52:19.453
EGOI_090911MMEP8132.E2	11-SEP-2009	12:32:24.564
EGOI_090911MMEP8138.E2	11-SEP-2009	14:19:38.710
EGOI_090911MMEP8143.E2	11-SEP-2009	15:51:36.265
EGOI_090911MMEP8150.E2	11-SEP-2009	17:31:57.875
EGOI_090911MSEP6836.E2	11-SEP-2009	10:19:23.753
EGOI_090911MSEP6864.E2	11-SEP-2009	11:57:00.345
EGOI_090911MSEP6882.E2	11-SEP-2009	13:39:08.464
EGOI_090911MSEP6900.E2	11-SEP-2009	21:29:59.325
EGOI_090911MSEP6932.E2	11-SEP-2009	23:05:59.899
EGOI_090911SGEP9624.E2	11-SEP-2009	02:05:20.764
EGOI_090911SGEP9631.E2	11-SEP-2009	03:41:00.346
EGOI_090911SGEP9639.E2	11-SEP-2009	14:38:20.827
EGOI_090911SGEP9647.E2	11-SEP-2009	16:16:31.917

[ [BACK TO MENU](#) ]

### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75249	10-SEP-2009	23:51:09.328	23:52:46.969	97.641000
KS	75253	11-SEP-2009	06:42:58.310	06:44:50.954	112.64400
KS	75254	11-SEP-2009	08:22:18.029	08:24:50.060	152.03100
KS	75255	11-SEP-2009	10:01:55.618	10:04:29.663	154.04500
KS	75256	11-SEP-2009	11:41:26.128	11:44:04.767	158.63900
KS	75257	11-SEP-2009	13:20:31.732	13:23:05.365	153.63300
KS	75258	11-SEP-2009	14:59:05.991	15:01:46.463	160.47200
KS	75259	11-SEP-2009	16:36:42.909	16:39:21.555	158.64600
KS	75260	11-SEP-2009	18:14:35.173	18:17:23.651	168.47800
KS	75263	11-SEP-2009	23:17:51.244	23:19:34.485	103.24100
GS	75250	11-SEP-2009	01:23:40.850	01:25:44.526	123.67600

GS	75251	11-SEP-2009	03:01:15.499	03:03:15.118	119.61900
GS	75252	11-SEP-2009	04:43:51.987	04:45:42.733	110.74600
MS	75255	11-SEP-2009	10:16:43.661	10:19:23.752	160.09100
MS	75256	11-SEP-2009	11:54:16.989	11:57:00.345	163.35600
MS	75263	11-SEP-2009	23:03:33.966	23:05:59.898	145.93200
MA	75254	11-SEP-2009	08:31:07.012	08:33:36.616	149.60400
MA	75255	11-SEP-2009	10:09:59.664	10:11:55.207	115.54300
MA	75262	11-SEP-2009	21:26:04.638	21:28:45.817	161.17900
MI	75258	11-SEP-2009	15:16:58.692	15:19:19.570	140.87800
MM	75249	11-SEP-2009	00:40:56.739	00:42:29.255	92.516000
MM	75255	11-SEP-2009	10:50:52.431	10:52:19.452	87.021000
MM	75256	11-SEP-2009	12:30:49.871	12:32:24.563	94.692000
MM	75257	11-SEP-2009	14:10:32.929	14:19:38.710	545.78100
MM	75257	11-SEP-2009	14:19:44.709	14:23:16.643	211.93400
MM	75258	11-SEP-2009	15:49:59.827	15:51:36.265	96.438000
MM	75259	11-SEP-2009	17:29:12.175	17:31:57.875	165.70000
BE	75251	11-SEP-2009	03:27:20.076	03:29:58.778	158.70200
SG	75250	11-SEP-2009	02:02:34.379	02:05:20.764	166.38500
SG	75251	11-SEP-2009	03:38:16.339	03:41:00.346	164.00700
SG	75257	11-SEP-2009	14:34:46.958	14:38:20.827	213.86900
SG	75258	11-SEP-2009	16:13:41.972	16:16:31.917	169.94500

[ [BACK TO MENU](#) ]

#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75249	11-SEP-2009	00:29:05.333	00:43:42.424	877.09100
BE	75250	11-SEP-2009	01:48:43.491	01:59:44.549	661.05800
MM	75250	11-SEP-2009	02:23:24.649	02:32:08.155	523.50600
MM	75251	11-SEP-2009	04:06:29.626	04:12:57.580	387.95400
MI	75251	11-SEP-2009	02:56:44.515	03:09:34.525	770.01000
CM	75251	11-SEP-2009	02:57:28.450	03:06:19.253	530.80300
CM	75251	11-SEP-2009	04:34:57.282	04:46:47.250	709.96800
MM	75252	11-SEP-2009	05:49:00.241	05:54:54.242	354.00100
MI	75252	11-SEP-2009	04:37:18.099	04:47:49.569	631.47000
MM	75253	11-SEP-2009	07:30:12.042	07:37:55.636	463.59400
JO	75253	11-SEP-2009	07:09:01.082	07:21:47.885	766.80300

MM	75254	11-SEP-2009	09:10:41.502	09:20:44.293	602.79100
JO	75254	11-SEP-2009	08:47:08.767	09:01:41.637	872.87000
MA	75256	11-SEP-2009	11:51:59.579	11:57:05.330	305.75100
HO	75257	11-SEP-2009	14:19:29.909	14:32:10.028	760.11900
BE	75258	11-SEP-2009	14:44:14.022	14:57:07.960	773.93800
GS	75258	11-SEP-2009	15:10:48.522	15:24:02.932	794.41000
CM	75258	11-SEP-2009	15:21:00.821	15:29:54.610	533.78900
MI	75259	11-SEP-2009	16:56:30.760	17:08:04.346	693.58600
GS	75259	11-SEP-2009	16:50:14.055	17:03:20.168	786.11300
CM	75259	11-SEP-2009	16:58:53.588	17:10:37.887	704.29900
MM	75260	11-SEP-2009	19:08:20.870	19:20:59.388	758.51800
JO	75260	11-SEP-2009	19:29:04.271	19:40:41.282	697.01100
MM	75261	11-SEP-2009	20:47:46.690	21:00:30.509	763.81900
MA	75261	11-SEP-2009	19:47:03.237	19:59:41.197	757.96000
JO	75261	11-SEP-2009	21:07:00.062	21:21:48.701	888.63900
HO	75262	11-SEP-2009	22:20:43.729	22:32:30.250	706.52100
MM	75262	11-SEP-2009	22:27:52.923	22:40:17.637	744.71400
HO	75263	11-SEP-2009	23:57:58.437	00:12:29.487	871.05000

[ [BACK TO MENU](#) ]

## 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	South Polar View operations
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

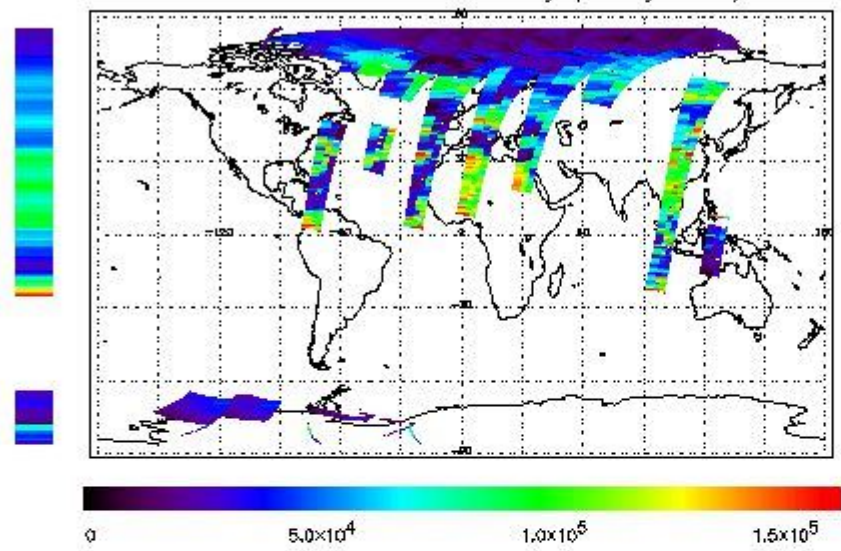
(1)

## 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

778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

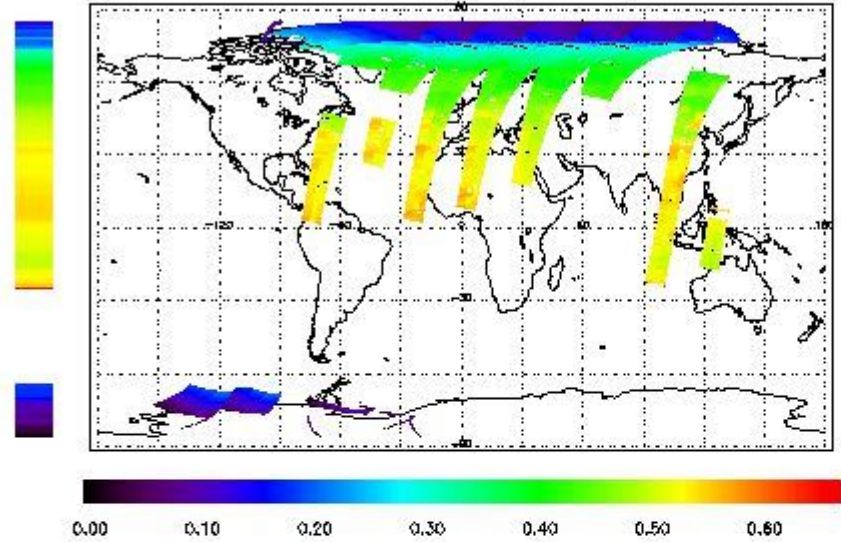
First Product : 10-SEP-2009 23:52:46.970 : ORBIT : 75249.1709

Last Product : 11-SEP-2009 23:30:00.043 : ORBIT : 75283.2587

Total Products Processed : 15691 Day : 254

Page : 20

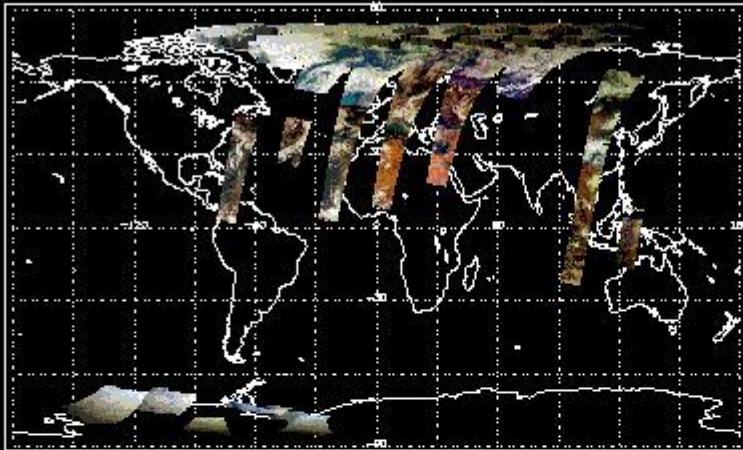
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)



Uncalibrated PMDs as RGB Signal



### 3 - Instrument Calibration

#### 3.1 - Solar Calibration (Daily/TST44)

Daily(D)/TST44(T)	Start Time	End Time (T)	Orbit	Ground Station Visibility (Y/NS/NE)	Warm Detector Temperature (TST/44)	Max PMD Readout during solar calibration (BU set 2/12)
D	20:05:12.302	--	75261	Y	--	15046

(2)(3)

#### 3.2 - Lamp Calibration (Quarterly/TST44)

Quarterly(Q)/TST44(T)	Start Time	End Time	Orbit	Ground Station Visibility (Y/NS/NE)	Warm Detector Temperature (TST/44)	Lamp Instability Voltage (if any) (V)	Lamp Failure N. (if any)
--	--	--	--	--	--	--	--

(2)(3)

[ BACK TO MENU ]

### 4 - Instrument Anomalies



#### 4.1 - Single Event Upset (SEU)

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
--	--	--	--	--

(2)

#### 4.2 - Instrument Off

Start Time	End Time	Start Orbit	End Orbit	MPS Resumption	Ground Station Visibility (Y/NS/NE)
--	--	--	--	--	--

(2)

#### 4.3 - Cooler Switchings

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)	Max Temp. Ch 1	Max Temp. Ch 2	Max Temp. Ch 3	Max Temp. Ch 4
--	--	--	--	--	--	--	--	--

(2)

[ BACK TO MENU ]

### 5 - Instrument Operations

#### 5.1 - Timeline Interruptions

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
16:09:40	16:36:14	75259	75259	Y

(2)

#### 5.2 - TST44

Start Time	Start Orbit	Ground Station Visibility (Y/NS/NE)
--	--	--

(2)

#### 5.3 - Power Cycle

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
--	--	--	--	--

(2)

#### 5.4 - Wrong Command Execution

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
--	--	--	--	--

(2)

#### 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
01:00 05-Sep	--	75164	--

[ [BACK TO MENU](#) ]

---

Legend:

(1) The Instrument Indicators field has the values: OK or NOK (Not OK)

(2) The Ground Station Visibility field has the values: Y (in case of visibility); NS (No Start); NE (No End). This occurs since the failure of the on-board recorder (2003)

(3) 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