

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	01-OCT-2009
Start Time of First Product	00:51:18
Stop Time of Last Product	23:01:36
Number of EGOI Products analysed	30
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_091001GSEP9739.E2	01-OCT-2009	00:58:23.005
EGOI_091001GSEP9771.E2	01-OCT-2009	02:34:53.595
EGOI_091001GSEP9801.E2	01-OCT-2009	04:15:49.708
EGOI_091001GSEP9808.E2	01-OCT-2009	05:58:18.829
EGOI_091001KSEP6256.E2	01-OCT-2009	06:16:33.946
EGOI_091001KSEP6285.E2	01-OCT-2009	07:56:27.057
EGOI_091001KSEP6312.E2	01-OCT-2009	09:36:02.164
EGOI_091001KSEP6347.E2	01-OCT-2009	11:15:38.772
EGOI_091001KSEP6378.E2	01-OCT-2009	12:54:52.880

EGOI_091001KSEP6391.E2	01-OCT-2009	14:33:42.982
EGOI_091001KSEP6406.E2	01-OCT-2009	16:11:24.078
EGOI_091001KSEP6436.E2	01-OCT-2009	17:49:23.177
EGOI_091001KSEP6470.E2	01-OCT-2009	19:27:23.776
EGOI_091001KSEP6495.E2	01-OCT-2009	21:07:30.394
EGOI_091001KSEP6520.E2	01-OCT-2009	22:50:47.523
EGOI_091001MAEP4434.E2	01-OCT-2009	09:43:42.711
EGOI_091001MAEP4454.E2	01-OCT-2009	21:00:00.343
EGOI_091001MIEP0259.E2	01-OCT-2009	02:31:44.575
EGOI_091001MIEP0287.E2	01-OCT-2009	04:10:58.681
EGOI_091001MIEP0312.E2	01-OCT-2009	14:51:56.592
EGOI_091001MIEP0342.E2	01-OCT-2009	16:30:06.195
EGOI_091001MMEP8923.E2	01-OCT-2009	03:38:14.974
EGOI_091001MMEP8929.E2	01-OCT-2009	05:20:39.603
EGOI_091001MMEP8940.E2	01-OCT-2009	10:23:53.460
EGOI_091001MMEP8946.E2	01-OCT-2009	12:04:15.069
EGOI_091001MMEP8959.E2	01-OCT-2009	17:02:58.898
EGOI_091001MSEP8980.E2	01-OCT-2009	00:51:18.462
EGOI_091001MSEP9000.E2	01-OCT-2009	11:28:43.350
EGOI_091001MSEP9024.E2	01-OCT-2009	13:09:21.466
EGOI_091001MSEP9056.E2	01-OCT-2009	22:37:59.445

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75539	01-OCT-2009	06:14:50.896	06:16:33.945	103.04900
KS	75539	01-OCT-2009	06:17:30.953	06:21:16.774	225.82100
KS	75540	01-OCT-2009	07:53:51.570	07:56:27.057	155.48700
KS	75541	01-OCT-2009	09:33:27.709	09:36:02.163	154.45400
KS	75542	01-OCT-2009	11:13:01.976	11:15:38.772	156.79600
KS	75543	01-OCT-2009	12:52:16.695	12:54:52.879	156.18400
KS	75544	01-OCT-2009	14:31:02.845	14:33:42.982	160.13700
KS	75545	01-OCT-2009	16:08:45.498	16:11:24.078	158.58000
KS	75546	01-OCT-2009	17:46:40.724	17:49:23.177	162.45300
KS	75547	01-OCT-2009	19:25:10.101	19:27:23.776	133.67500
KS	75548	01-OCT-2009	21:05:25.942	21:07:30.393	124.45100
KS	75549	01-OCT-2009	22:47:59.131	22:50:47.523	168.39200
GS	75536	01-OCT-2009	00:56:42.043	00:58:23.004	100.96100
GS	75537	01-OCT-2009	02:32:55.906	02:34:53.595	117.68900
GS	75538	01-OCT-2009	04:13:49.293	04:15:49.708	120.41500
MS	75536	01-OCT-2009	00:49:39.386	00:51:18.461	99.075000

MS	75542	01-OCT-2009	11:25:59.018	11:28:43.350	164.33200
MS	75543	01-OCT-2009	13:06:41.918	13:09:21.466	159.54800
MS	75549	01-OCT-2009	22:35:31.864	22:37:59.444	147.58000
MA	75541	01-OCT-2009	09:41:31.401	09:43:42.710	131.30900
MA	75548	01-OCT-2009	20:57:07.788	21:00:00.343	172.55500
MI	75537	01-OCT-2009	02:29:18.076	02:31:44.574	146.49800
MI	75538	01-OCT-2009	04:07:47.544	04:10:58.681	191.13700
MI	75544	01-OCT-2009	14:49:33.391	14:51:56.592	143.20100
MI	75545	01-OCT-2009	16:27:37.156	16:30:06.195	149.03900
MM	75537	01-OCT-2009	03:37:02.056	03:38:14.973	72.917000
MM	75541	01-OCT-2009	10:22:16.437	10:23:53.459	97.022000
MM	75542	01-OCT-2009	12:02:17.699	12:04:15.069	117.37000
MM	75545	01-OCT-2009	17:00:52.555	17:02:58.898	126.34300

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75536	01-OCT-2009	01:42:37.567	01:53:25.086	647.51900
MM	75536	01-OCT-2009	01:54:02.423	02:03:26.002	563.57900
BE	75537	01-OCT-2009	02:58:52.288	03:12:17.276	804.98800
SG	75537	01-OCT-2009	03:10:00.412	03:23:42.061	821.64900
CM	75537	01-OCT-2009	02:32:56.753	02:34:43.222	106.46900
BE	75538	01-OCT-2009	04:39:23.981	04:49:05.691	581.71000
SG	75538	01-OCT-2009	04:51:40.429	05:00:07.252	506.82300
CM	75538	01-OCT-2009	05:46:53.232	05:59:18.475	745.24300
MM	75539	01-OCT-2009	07:01:23.392	07:08:27.520	424.12800
JO	75539	01-OCT-2009	06:42:20.448	06:52:23.394	602.94600
MM	75540	01-OCT-2009	08:42:01.217	08:51:26.597	565.38000
MA	75540	01-OCT-2009	08:03:53.043	08:13:12.131	559.08800
JO	75540	01-OCT-2009	08:18:30.100	08:33:31.504	901.40400
JO	75541	01-OCT-2009	10:01:51.195	10:09:44.163	472.96800
HO	75542	01-OCT-2009	12:11:28.338	12:25:18.452	830.11400
MA	75542	01-OCT-2009	11:22:31.643	11:30:54.685	503.04200
HO	75543	01-OCT-2009	13:50:40.343	14:04:56.818	856.47500
MM	75543	01-OCT-2009	13:42:05.071	13:54:48.780	763.70900
SG	75543	01-OCT-2009	14:08:11.227	14:16:52.183	520.95600

BE	75544	01-OCT-2009	14:15:30.737	14:28:54.372	803.63500
MM	75544	01-OCT-2009	15:21:36.685	15:34:15.209	758.52400
GS	75544	01-OCT-2009	14:42:47.500	14:53:37.856	650.35600
SG	75544	01-OCT-2009	15:44:44.651	15:58:24.451	819.80000
BE	75545	01-OCT-2009	15:58:50.566	16:05:54.783	424.21700
GS	75545	01-OCT-2009	16:21:39.927	16:35:25.069	825.14200
CM	75545	01-OCT-2009	16:30:16.005	16:42:40.698	744.69300
MM	75546	01-OCT-2009	18:40:00.551	18:52:36.398	755.84700
GS	75546	01-OCT-2009	18:02:19.246	18:11:24.871	545.62500
JO	75546	01-OCT-2009	19:02:44.843	19:09:46.159	421.31600
MM	75547	01-OCT-2009	20:19:19.011	20:32:02.759	763.74800
MA	75547	01-OCT-2009	19:21:42.938	19:30:34.785	531.84700
JO	75547	01-OCT-2009	20:38:34.395	20:53:34.794	900.39900
HO	75548	01-OCT-2009	21:54:05.964	22:03:28.729	562.76500
MM	75548	01-OCT-2009	21:59:11.548	22:11:45.526	753.97800
JO	75548	01-OCT-2009	22:19:31.593	22:30:01.274	629.68100
HO	75549	01-OCT-2009	23:29:43.052	23:44:02.551	859.49900
MM	75549	01-OCT-2009	23:39:58.017	23:51:42.788	704.77100
MA	75549	01-OCT-2009	22:42:26.297	22:47:40.661	314.36400

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## 1.5 - List of corrupted products

Station	Orbit	Time
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## 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

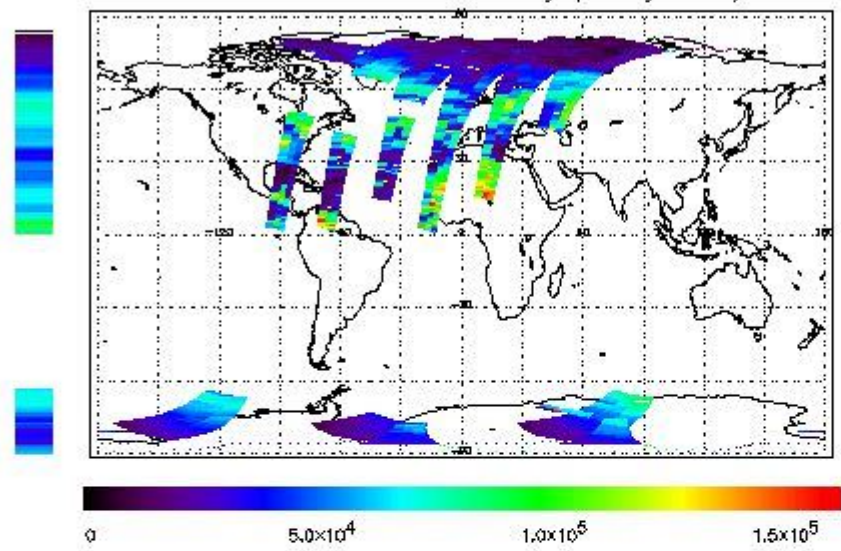
(1)

## 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

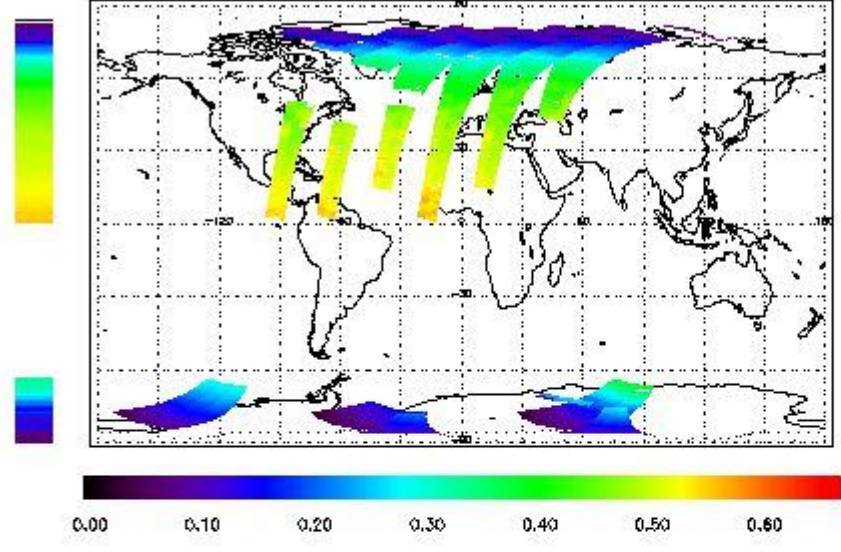
778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

First Product : 01-OCT-2009 00:51:18.462 : ORBIT : 75536.0383  
Last Product : 01-OCT-2009 23:01:35.589 : ORBIT : 75549.2620  
Total Products Processed : 14382 Day : 274

331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed

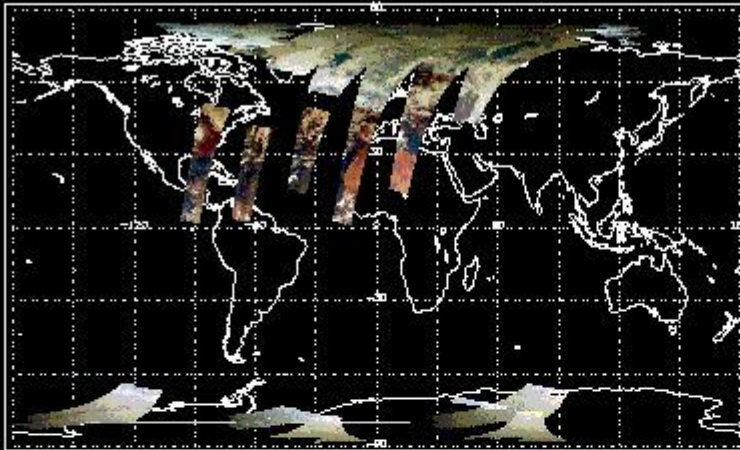


PMD Image (Earthshine Radiance)



First Product : 01-OCT-2009 00:51:18.462 : ORBIT : 75536.0383  
 Last Product : 01-OCT-2009 23:01:35.589 : ORBIT : 75549.2620  
 Total Products Processed : 14382 Day : 274 Page : 20

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	16:17:40.610	--	75545	Y	--	15213

(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)
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(2)(3)

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### 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
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(2)

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### 5 - Instrument Operations

#### 5.1 - Timeline Interruptions

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

(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	--
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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