

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	17-SEP-2009
Start Time of First Product	23:48:56 (16-Sep)
Stop Time of Last Product	23:31:04
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_090917BEEP0711.E2	17-SEP-2009	03:42:01.563
EGOI_090917GSEP8967.E2	17-SEP-2009	01:36:39.800
EGOI_090917GSEP8995.E2	17-SEP-2009	03:14:43.399
EGOI_090917GSEP9005.E2	17-SEP-2009	04:57:44.020
EGOI_090917KSEP2677.E2	17-SEP-2009	00:05:25.745
EGOI_090917KSEP2694.E2	17-SEP-2009	06:56:16.242
EGOI_090917KSEP2714.E2	17-SEP-2009	08:36:13.849
EGOI_090917KSEP2740.E2	17-SEP-2009	10:15:54.959
EGOI_090917KSEP2766.E2	17-SEP-2009	11:55:27.061

EGOI_090917KSEP2782.E2	17-SEP-2009	13:34:23.161
EGOI_090917KSEP2810.E2	17-SEP-2009	15:13:04.264
EGOI_090917KSEP2842.E2	17-SEP-2009	16:50:33.354
EGOI_090917KSEP2872.E2	17-SEP-2009	18:28:26.449
EGOI_090917KSEP2893.E2	17-SEP-2009	20:07:12.056
EGOI_090917KSEP2925.E2	17-SEP-2009	21:48:15.671
EGOI_090917MAEP3953.E2	17-SEP-2009	08:44:10.896
EGOI_090917MAEP3966.E2	17-SEP-2009	10:23:25.002
EGOI_090917MAEP3977.E2	17-SEP-2009	20:00:46.513
EGOI_090917MIEP9368.E2	17-SEP-2009	03:10:22.371
EGOI_090917MIEP9392.E2	17-SEP-2009	04:51:51.485
EGOI_090917MIEP9402.E2	17-SEP-2009	15:30:34.369
EGOI_090917MMEP8415.E2	17-SEP-2009	00:54:06.538
EGOI_090917MMEP8421.E2	17-SEP-2009	02:36:26.664
EGOI_090917MMEP8433.E2	17-SEP-2009	16:02:58.565
EGOI_090917MMEP8440.E2	17-SEP-2009	17:43:15.678
EGOI_090917MMEP8448.E2	17-SEP-2009	21:01:06.380
EGOI_090917MMEP8456.E2	17-SEP-2009	22:41:14.487
EGOI_090917MSEP7483.E2	16-SEP-2009	23:48:55.644
EGOI_090917MSEP7505.E2	17-SEP-2009	10:30:20.541
EGOI_090917MSEP7534.E2	17-SEP-2009	12:08:21.144
EGOI_090917MSEP7560.E2	17-SEP-2009	21:40:47.124
EGOI_090917MSEP7592.E2	17-SEP-2009	23:17:29.711
EGOI_090917SGEP9789.E2	17-SEP-2009	03:52:06.125
EGOI_090917SGEP9795.E2	17-SEP-2009	14:50:25.126
EGOI_090917SGEP9803.E2	17-SEP-2009	16:28:16.721

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75335	17-SEP-2009	00:03:26.996	00:05:25.745	118.74900
KS	75339	17-SEP-2009	06:54:16.628	06:56:16.242	119.61400
KS	75340	17-SEP-2009	08:33:40.963	08:36:13.848	152.88500
KS	75341	17-SEP-2009	10:13:18.637	10:15:54.959	156.32200
KS	75342	17-SEP-2009	11:52:47.254	11:55:27.061	159.80700
KS	75343	17-SEP-2009	13:31:48.751	13:34:23.160	154.40900
KS	75344	17-SEP-2009	15:10:13.450	15:13:04.264	170.81400
KS	75345	17-SEP-2009	16:47:50.069	16:50:33.354	163.28500
KS	75346	17-SEP-2009	18:25:49.993	18:28:26.449	156.45600
KS	75347	17-SEP-2009	20:05:02.626	20:07:12.056	129.43000
KS	75348	17-SEP-2009	21:46:08.054	21:48:15.671	127.61700
GS	75336	17-SEP-2009	01:34:36.102	01:36:39.799	123.69700

GS	75337	17-SEP-2009	03:12:41.413	03:14:43.399	121.98600
MS	75335	16-SEP-2009	23:46:33.575	23:48:55.643	142.06800
MS	75341	17-SEP-2009	10:27:38.210	10:30:20.541	162.33100
MS	75342	17-SEP-2009	12:05:46.930	12:08:21.143	154.21300
MS	75349	17-SEP-2009	23:14:55.090	23:17:29.710	154.62000
MA	75340	17-SEP-2009	08:42:36.012	08:44:10.895	94.883000
MA	75341	17-SEP-2009	10:21:21.997	10:23:25.002	123.00500
MA	75347	17-SEP-2009	19:58:05.951	20:00:46.513	160.56200
MI	75337	17-SEP-2009	03:07:53.181	03:10:22.370	149.18900
MI	75338	17-SEP-2009	04:49:23.754	04:51:51.485	147.73100
MI	75344	17-SEP-2009	15:28:07.077	15:30:34.369	147.29200
MI	75344	17-SEP-2009	15:35:05.895	15:40:58.777	352.88200
MM	75335	17-SEP-2009	00:52:36.326	00:54:06.538	90.212000
MM	75336	17-SEP-2009	02:35:10.544	02:36:26.663	76.119000
MM	75344	17-SEP-2009	16:01:20.727	16:02:58.565	97.838000
MM	75345	17-SEP-2009	17:40:31.897	17:43:15.677	163.78000
MM	75347	17-SEP-2009	20:59:10.669	21:01:06.380	115.71100
MM	75348	17-SEP-2009	22:39:22.802	22:41:14.486	111.68400
BE	75337	17-SEP-2009	03:38:46.249	03:42:01.563	195.31400
SG	75337	17-SEP-2009	03:49:43.231	03:52:06.124	142.89300
SG	75343	17-SEP-2009	14:45:43.137	14:50:25.125	281.98800
SG	75344	17-SEP-2009	16:25:28.548	16:28:16.720	168.17200

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75335	17-SEP-2009	00:40:48.126	00:54:59.712	851.58600
BE	75336	17-SEP-2009	01:59:48.571	02:11:35.129	706.55800
SG	75336	17-SEP-2009	02:12:47.313	02:22:01.800	554.48700
MM	75337	17-SEP-2009	04:18:15.989	04:24:32.332	376.34300
CM	75337	17-SEP-2009	03:08:07.776	03:18:10.881	603.10500
CM	75337	17-SEP-2009	04:46:36.453	04:57:51.962	675.50900
MM	75338	17-SEP-2009	06:00:37.769	06:06:38.694	360.92500
MM	75339	17-SEP-2009	07:41:42.552	07:49:42.569	480.01700
JO	75339	17-SEP-2009	07:19:54.515	07:33:24.721	810.20600
MM	75340	17-SEP-2009	09:22:09.210	09:32:26.031	616.82100

JO	75340	17-SEP-2009	08:58:44.868	09:12:51.854	846.98600
MM	75341	17-SEP-2009	11:02:18.530	11:14:10.383	711.85300
MM	75342	17-SEP-2009	12:42:14.412	12:54:50.789	756.37700
HO	75343	17-SEP-2009	14:31:02.244	14:42:51.051	708.80700
MM	75343	17-SEP-2009	14:21:55.703	14:34:38.970	763.26700
BE	75344	17-SEP-2009	14:55:51.336	15:08:21.188	749.85200
GS	75344	17-SEP-2009	15:22:04.839	15:35:37.794	812.95500
CM	75344	17-SEP-2009	15:31:46.187	15:41:55.446	609.25900
MI	75345	17-SEP-2009	17:08:12.215	17:18:52.910	640.69500
GS	75345	17-SEP-2009	17:01:41.775	17:14:24.185	762.41000
CM	75345	17-SEP-2009	17:10:28.923	17:21:37.723	668.80000
MM	75346	17-SEP-2009	19:19:41.356	19:32:20.952	759.59600
JO	75346	17-SEP-2009	19:39:58.244	19:52:38.372	760.12800
JO	75347	17-SEP-2009	21:18:27.072	21:32:58.333	871.26100
HO	75348	17-SEP-2009	22:31:35.751	22:43:58.983	743.23200
MA	75348	17-SEP-2009	21:37:41.032	21:50:26.395	765.36300
KS	75349	17-SEP-2009	23:29:53.914	23:37:50.247	476.33300

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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

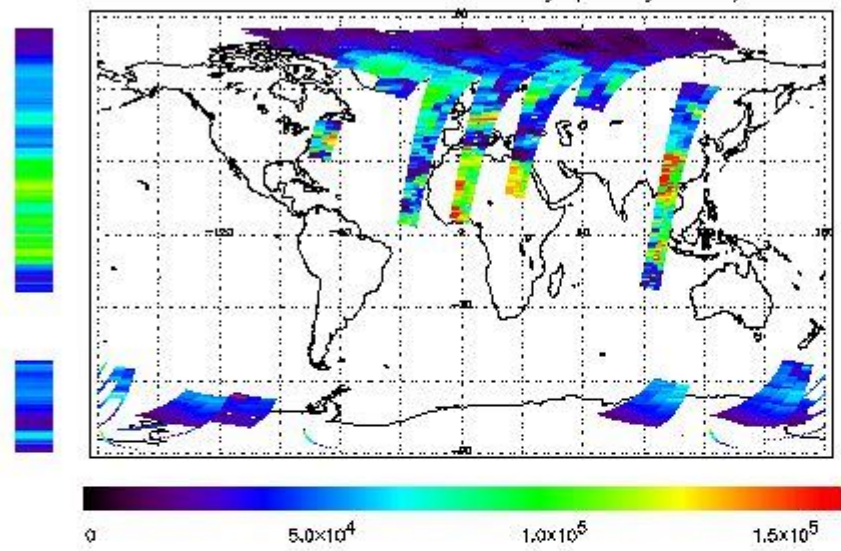
(1)

## 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

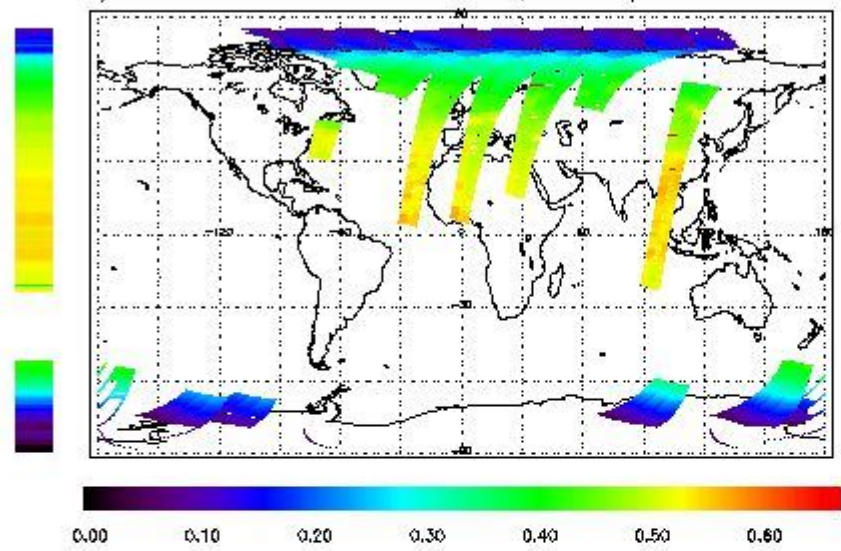
First Product : 16-SEP-2009 23:48:55.644 : ORBIT : 75335.0182

Last Product : 17-SEP-2009 23:31:04.296 : ORBIT : 75349.1550

Total Products Processed : 17209 Day : 260

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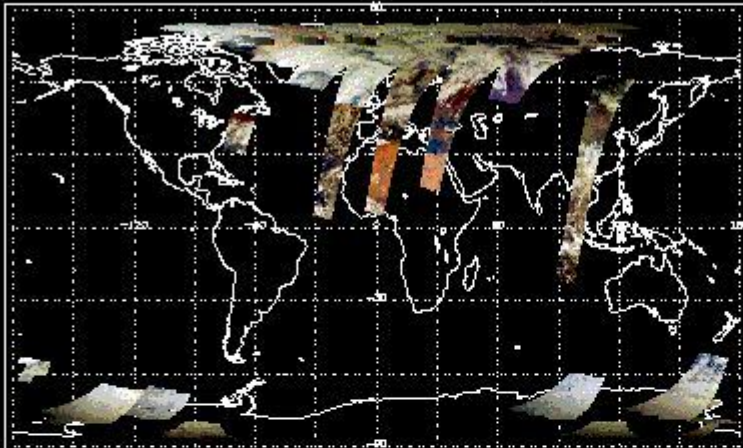
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)

First Product : 16-SEP-2009 23:48:55.644 : ORBIT : 75335.0182  
 Last Product : 17-SEP-2009 23:31:04.296 : ORBIT : 75349.1550  
 Total Products Processed : 17209 Day : 260 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	16:56:10.880	--	75345	Y	--	15079

(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