

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	24-SEP-2009
Start Time of First Product	00:33:50
Stop Time of Last Product	23:21:28
Number of EGOI Products analysed	29
Number of corrupted products	--
Anomalies and/or Special Operations	Narrow Swath preformed as planned, start orbit 75448

### 1.2 - List of received products

Name	Date	Time
EGOI_090924BEEP0759.E2	24-SEP-2009	03:21:26.769
EGOI_090924GSEP9315.E2	24-SEP-2009	01:18:06.517
EGOI_090924GSEP9347.E2	24-SEP-2009	02:54:50.605
EGOI_090924GSEP9375.E2	24-SEP-2009	04:36:42.222
EGOI_090924GSEP9382.E2	24-SEP-2009	06:18:48.843
EGOI_090924KSEP4334.E2	24-SEP-2009	06:36:23.437
EGOI_090924KSEP4356.E2	24-SEP-2009	08:16:19.543
EGOI_090924KSEP4378.E2	24-SEP-2009	09:55:59.152
EGOI_090924KSEP4404.E2	24-SEP-2009	11:35:35.754

EGOI_090924KSEP4436.E2	24-SEP-2009	13:14:39.355
EGOI_090924KSEP4450.E2	24-SEP-2009	14:53:23.461
EGOI_090924KSEP4480.E2	24-SEP-2009	16:31:03.066
EGOI_090924KSEP4513.E2	24-SEP-2009	18:09:00.655
EGOI_090924KSEP4548.E2	24-SEP-2009	19:47:17.843
EGOI_090924KSEP4573.E2	24-SEP-2009	21:27:46.960
EGOI_090924KSEP4596.E2	24-SEP-2009	23:10:44.581
EGOI_090924MAEP4191.E2	24-SEP-2009	08:24:48.109
EGOI_090924MAEP4206.E2	24-SEP-2009	10:03:33.710
EGOI_090924MAEP4215.E2	24-SEP-2009	21:20:10.909
EGOI_090924MIEP9817.E2	24-SEP-2009	02:50:56.581
EGOI_090924MIEP9845.E2	24-SEP-2009	04:30:46.687
EGOI_090924MMEP8691.E2	24-SEP-2009	00:33:49.748
EGOI_090924MMEP8697.E2	24-SEP-2009	02:15:59.366
EGOI_090924MMEP8705.E2	24-SEP-2009	07:22:46.230
EGOI_090924MSEP8302.E2	24-SEP-2009	10:11:15.757
EGOI_090924MSEP8332.E2	24-SEP-2009	11:48:29.843
EGOI_090924MSEP8354.E2	24-SEP-2009	13:30:06.460
EGOI_090924SGEP9917.E2	24-SEP-2009	01:57:56.255
EGOI_090924SGEP9924.E2	24-SEP-2009	03:32:52.335

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75439	24-SEP-2009	06:34:30.565	06:36:23.436	112.87100
KS	75440	24-SEP-2009	08:13:45.940	08:16:19.543	153.60300
KS	75441	24-SEP-2009	09:53:23.290	09:55:59.151	155.86100
KS	75442	24-SEP-2009	11:32:55.073	11:35:35.753	160.68000
KS	75443	24-SEP-2009	13:12:03.585	13:14:39.354	155.76900
KS	75444	24-SEP-2009	14:50:43.083	14:53:23.460	160.37700
KS	75445	24-SEP-2009	16:28:22.197	16:31:03.065	160.86800
KS	75446	24-SEP-2009	18:06:09.646	18:09:00.655	171.00900
KS	75447	24-SEP-2009	19:45:04.252	19:47:17.842	133.59000
KS	75448	24-SEP-2009	21:25:44.115	21:27:46.960	122.84500
KS	75449	24-SEP-2009	23:08:51.586	23:10:44.580	112.99400
GS	75436	24-SEP-2009	01:15:32.131	01:18:06.516	154.38500
GS	75437	24-SEP-2009	02:52:43.376	02:54:50.604	127.22800
GS	75438	24-SEP-2009	04:34:45.469	04:36:42.222	116.75300
MS	75441	24-SEP-2009	10:08:38.763	10:11:15.757	156.99400
MS	75442	24-SEP-2009	11:45:49.136	11:48:29.842	160.70600

MS	75443	24-SEP-2009	13:27:40.105	13:30:06.460	146.35500
MA	75440	24-SEP-2009	08:22:51.461	08:24:48.109	116.64800
MA	75441	24-SEP-2009	10:01:25.952	10:03:33.710	127.75800
MA	75448	24-SEP-2009	21:17:25.249	21:20:10.909	165.66000
MA	75448	24-SEP-2009	21:22:00.423	21:30:39.049	518.62600
MI	75437	24-SEP-2009	02:48:26.575	02:50:56.580	150.00500
MI	75438	24-SEP-2009	04:28:21.463	04:30:46.687	145.22400
MM	75435	24-SEP-2009	00:32:12.607	00:33:49.747	97.140000
MM	75436	24-SEP-2009	02:14:35.579	02:15:59.365	83.786000
MM	75439	24-SEP-2009	07:21:33.827	07:22:46.230	72.403000
BE	75437	24-SEP-2009	03:18:46.591	03:21:26.768	160.17700
SG	75437	24-SEP-2009	03:29:44.373	03:32:52.335	187.96200

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75435	24-SEP-2009	00:20:34.115	00:35:12.185	878.07000
HO	75436	24-SEP-2009	02:04:47.916	02:12:07.010	439.09400
MM	75437	24-SEP-2009	03:57:39.545	04:04:17.111	397.56600
CM	75437	24-SEP-2009	02:49:38.510	02:57:17.351	458.84100
CM	75437	24-SEP-2009	04:26:17.346	04:38:24.997	727.65100
MM	75438	24-SEP-2009	05:40:16.326	05:46:06.538	350.21200
JO	75439	24-SEP-2009	07:00:55.357	07:13:02.432	727.07500
MM	75440	24-SEP-2009	09:02:05.575	09:11:57.475	591.90000
JO	75440	24-SEP-2009	08:38:30.065	08:53:16.635	886.57000
MM	75441	24-SEP-2009	10:42:17.745	10:53:54.782	697.03700
MM	75442	24-SEP-2009	12:22:16.341	12:34:47.428	751.08700
MA	75442	24-SEP-2009	11:42:55.031	11:49:28.172	393.14100
BE	75443	24-SEP-2009	12:57:21.424	13:08:49.660	688.23600
MM	75443	24-SEP-2009	14:02:00.710	14:14:44.606	763.89600
SG	75443	24-SEP-2009	14:26:40.285	14:37:56.735	676.45000
BE	75444	24-SEP-2009	14:35:34.169	14:48:41.332	787.16300
MM	75444	24-SEP-2009	15:41:29.019	15:54:05.652	756.63300
MI	75444	24-SEP-2009	15:08:40.688	15:20:33.568	712.88000
GS	75444	24-SEP-2009	15:02:22.588	15:15:18.992	776.40400
SG	75444	24-SEP-2009	16:04:56.853	16:17:51.169	774.31600

CM	75444	24-SEP-2009	15:13:06.924	15:20:43.236	456.31200
MM	75445	24-SEP-2009	17:20:42.346	17:33:13.902	751.55600
MI	75445	24-SEP-2009	16:47:48.006	16:59:53.132	725.12600
GS	75445	24-SEP-2009	16:41:39.059	16:54:59.867	800.80800
CM	75445	24-SEP-2009	16:50:15.380	17:02:18.644	723.26400
MM	75446	24-SEP-2009	18:59:50.655	19:12:28.355	757.70000
GS	75446	24-SEP-2009	18:22:50.797	18:29:51.194	420.39700
JO	75446	24-SEP-2009	19:20:59.701	19:31:36.532	636.83100
MM	75447	24-SEP-2009	20:39:14.058	20:51:58.044	763.98600
MA	75447	24-SEP-2009	19:38:48.827	19:50:55.073	726.24600
JO	75447	24-SEP-2009	20:58:26.592	21:13:23.464	896.87200
HO	75448	24-SEP-2009	22:12:38.582	22:23:50.148	671.56600
MM	75448	24-SEP-2009	22:19:16.021	22:31:43.884	747.86300
JO	75448	24-SEP-2009	22:40:35.775	22:48:04.250	448.47500
HO	75449	24-SEP-2009	23:49:30.004	00:03:57.669	867.66500
MS	75449	24-SEP-2009	22:55:06.205	23:08:27.470	801.26500

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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

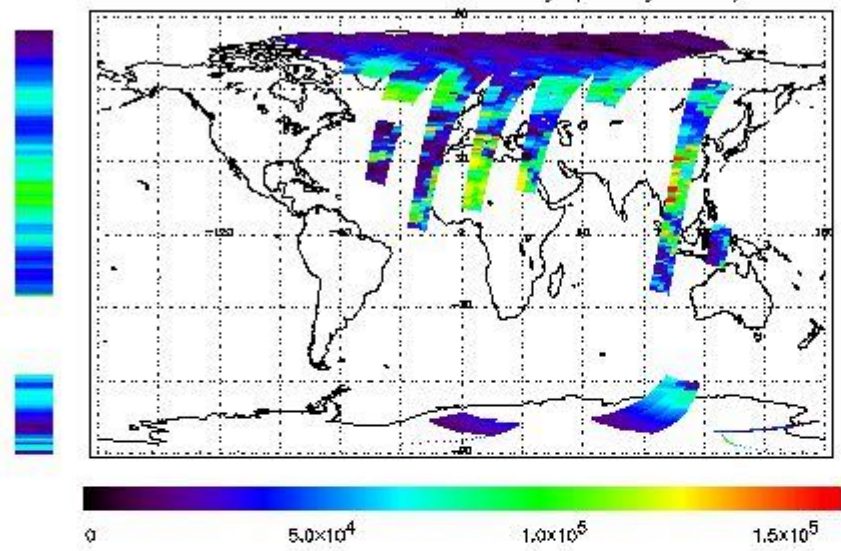
(1)

## 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

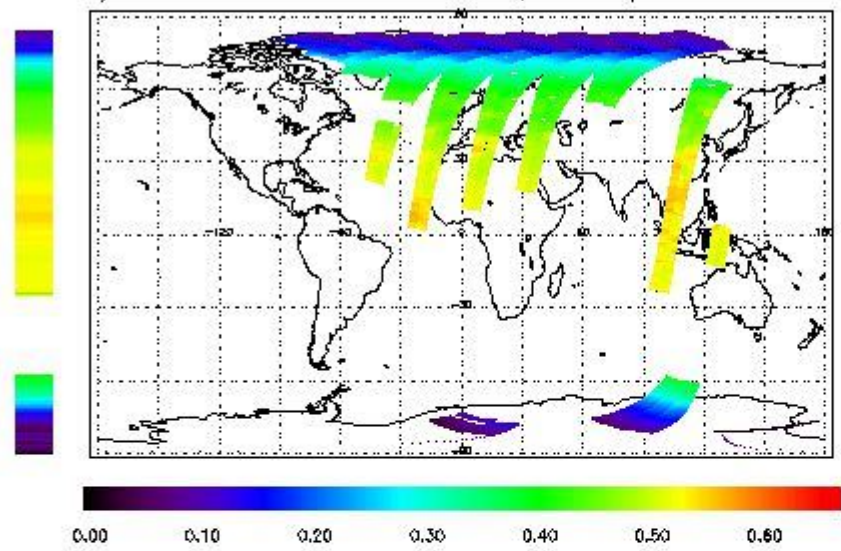
First Product : 24-SEP-2009 00:33:49.748 : ORBIT : 75435.6646

Last Product : 24-SEP-2009 23:21:28.147 : ORBIT : 75449.2596

Total Products Processed : 13397 Day : 267

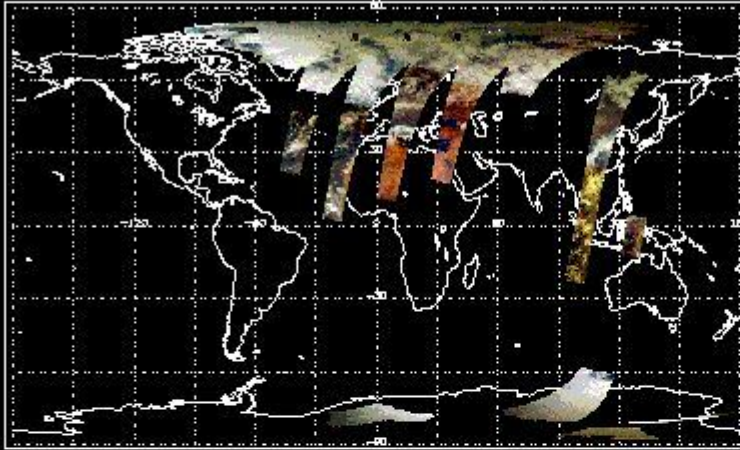
Page : 20

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	19:58:10.400	--	75447	Y	--	15106

(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)
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(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
21:30	--	75448	--

### 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