

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	08-SEP-2009
Start Time of First Product	23:46:48 (07-SEP)
Stop Time of Last Product	23:24:19
Number of EGOI Products analysed	39
Number of corrupted products	1
Anomalies and/or Special Operations	no solar calibration available due to missing data

### 1.2 - List of received products

Name	Date	Time
EGOI_090908BEEP0651.E2	08-SEP-2009	03:24:19.057
EGOI_090908GSEP8339.E2	08-SEP-2009	01:20:15.311
EGOI_090908GSEP8371.E2	08-SEP-2009	02:57:27.901
EGOI_090908GSEP8399.E2	08-SEP-2009	04:39:46.514
EGOI_090908GSEP8406.E2	08-SEP-2009	06:21:44.139
EGOI_090908KSEP0469.E2	07-SEP-2009	23:46:47.739
EGOI_090908KSEP0486.E2	08-SEP-2009	06:39:12.741
EGOI_090908KSEP0506.E2	08-SEP-2009	08:19:08.855
EGOI_090908KSEP0530.E2	08-SEP-2009	09:58:49.957

EGOI_090908KSEP0555.E2	08-SEP-2009	11:38:25.061
EGOI_090908KSEP0575.E2	08-SEP-2009	13:17:27.163
EGOI_090908KSEP0588.E2	08-SEP-2009	14:56:09.762
EGOI_090908KSEP0603.E2	08-SEP-2009	16:33:47.857
EGOI_090908KSEP0634.E2	08-SEP-2009	18:11:45.448
EGOI_090908KSEP0656.E2	08-SEP-2009	19:50:07.046
EGOI_090908KSEP0680.E2	08-SEP-2009	21:30:43.657
EGOI_090908KSEP0701.E2	08-SEP-2009	23:13:39.783
EGOI_090908MAEP3625.E2	08-SEP-2009	08:28:01.402
EGOI_090908MAEP3638.E2	08-SEP-2009	10:06:12.504
EGOI_090908MAEP3654.E2	08-SEP-2009	21:23:31.613
EGOI_090908MIEP8721.E2	08-SEP-2009	02:53:41.377
EGOI_090908MIEP8748.E2	08-SEP-2009	04:33:44.979
EGOI_090908MIEP8776.E2	08-SEP-2009	15:13:53.367
EGOI_090908MIEP8805.E2	08-SEP-2009	16:53:11.970
EGOI_090908MMEP7960.E2	08-SEP-2009	00:36:40.540
EGOI_090908MMEP7966.E2	08-SEP-2009	02:18:51.666
EGOI_090908MMEP7976.E2	08-SEP-2009	12:26:43.359
EGOI_090908MMEP7986.E2	08-SEP-2009	15:45:56.563
EGOI_090908MMEP7993.E2	08-SEP-2009	17:26:10.670
EGOI_090908MMEP8001.E2	08-SEP-2009	22:24:09.481
EGOI_090908MSEP6578.E2	08-SEP-2009	10:13:57.547
EGOI_090908MSEP6608.E2	08-SEP-2009	11:51:20.643
EGOI_090908MSEP6629.E2	08-SEP-2009	13:33:12.257
EGOI_090908MSEP6645.E2	08-SEP-2009	21:25:21.126
EGOI_090908MSEP6677.E2	08-SEP-2009	23:00:14.205
EGOI_090908SGEP9543.E2	08-SEP-2009	02:00:48.557
EGOI_090908SGEP9550.E2	08-SEP-2009	03:35:55.127
EGOI_090908SGEP9559.E2	08-SEP-2009	14:32:18.616
EGOI_090908SGEP9567.E2	08-SEP-2009	16:10:58.219

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75210	08-SEP-2009	06:37:19.703	06:39:12.741	113.03800
KS	75211	08-SEP-2009	08:16:36.625	08:19:08.855	152.23000
KS	75212	08-SEP-2009	09:56:14.071	09:58:49.956	155.88500
KS	75213	08-SEP-2009	11:35:45.444	11:38:25.061	159.61700
KS	75214	08-SEP-2009	13:14:53.003	13:17:27.163	154.16000
KS	75215	08-SEP-2009	14:53:31.290	14:56:09.761	158.47100
KS	75216	08-SEP-2009	16:31:09.096	16:33:47.856	158.76000
KS	75217	08-SEP-2009	18:08:58.101	18:11:45.448	167.34700

KS	75217	08-SEP-2009	18:18:43.990	18:22:25.002	221.01200
KS	75218	08-SEP-2009	19:47:55.183	19:50:07.045	131.86200
KS	75219	08-SEP-2009	21:28:38.602	21:30:43.657	125.05500
KS	75220	08-SEP-2009	23:11:51.264	23:13:39.782	108.51800
GS	75207	08-SEP-2009	01:18:14.766	01:20:15.310	120.54400
GS	75208	08-SEP-2009	02:55:33.867	02:57:27.901	114.03400
GS	75209	08-SEP-2009	04:37:46.986	04:39:46.513	119.52700
MS	75212	08-SEP-2009	10:11:18.487	10:13:57.546	159.05900
MS	75213	08-SEP-2009	11:48:38.213	11:51:20.643	162.43000
MS	75220	08-SEP-2009	22:57:55.166	23:00:14.205	139.03900
MA	75211	08-SEP-2009	08:25:36.265	08:28:01.402	145.13700
MA	75212	08-SEP-2009	10:04:17.073	10:06:12.503	115.43000
MA	75219	08-SEP-2009	21:20:18.113	21:23:31.613	193.50000
MI	75208	08-SEP-2009	02:51:12.201	02:53:41.376	149.17500
MI	75209	08-SEP-2009	04:31:19.732	04:33:44.978	145.24600
MI	75215	08-SEP-2009	15:11:26.342	15:13:53.366	147.02400
MI	75216	08-SEP-2009	16:50:41.974	16:53:11.969	149.99500
MM	75206	08-SEP-2009	00:35:07.264	00:36:40.540	93.276000
MM	75207	08-SEP-2009	02:17:31.901	02:18:51.666	79.765000
MM	75213	08-SEP-2009	12:25:07.529	12:26:43.359	95.830000
MM	75215	08-SEP-2009	15:44:19.300	15:45:56.563	97.263000
MM	75216	08-SEP-2009	17:23:32.294	17:26:10.669	158.37500
MM	75219	08-SEP-2009	22:22:08.274	22:24:09.481	121.20700
BE	75208	08-SEP-2009	03:21:37.644	03:24:19.057	161.41300
SG	75208	08-SEP-2009	03:32:34.727	03:35:55.126	200.39900
SG	75214	08-SEP-2009	14:29:21.921	14:32:18.616	176.69500
SG	75214	08-SEP-2009	14:36:15.643	14:40:54.413	278.77000
SG	75215	08-SEP-2009	16:07:51.480	16:10:58.218	186.73800
SG	75215	08-SEP-2009	16:13:34.233	16:20:36.324	422.09100

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75206	08-SEP-2009	00:23:24.213	00:38:02.354	878.14100
BE	75207	08-SEP-2009	01:43:12.878	01:53:46.465	633.58700
HO	75207	08-SEP-2009	02:07:51.850	02:13:39.959	348.10900

MM	75208	08-SEP-2009	04:00:36.263	04:07:10.547	394.28400
CM	75208	08-SEP-2009	02:52:14.011	03:00:18.993	484.98200
CM	75208	08-SEP-2009	04:29:10.262	04:41:12.739	722.47700
MM	75209	08-SEP-2009	05:43:11.038	05:49:02.374	351.33600
MM	75210	08-SEP-2009	07:24:26.599	07:32:02.075	455.47600
JO	75210	08-SEP-2009	07:03:36.815	07:15:57.884	741.06900
MM	75211	08-SEP-2009	09:04:57.565	09:14:53.129	595.56400
JO	75211	08-SEP-2009	08:41:22.658	08:56:05.177	882.51900
MM	75212	08-SEP-2009	10:45:09.318	10:56:48.600	699.28200
MA	75213	08-SEP-2009	11:45:54.589	11:52:02.064	367.47500
HO	75214	08-SEP-2009	14:13:43.465	14:26:38.784	775.31900
MM	75214	08-SEP-2009	14:04:51.463	14:17:35.314	763.85100
BE	75215	08-SEP-2009	14:38:27.167	14:51:30.357	783.19000
GS	75215	08-SEP-2009	15:05:11.097	15:18:13.916	782.81900
CM	75215	08-SEP-2009	15:15:43.619	15:23:48.356	484.73700
GS	75216	08-SEP-2009	16:44:30.650	16:57:46.848	796.19800
CM	75216	08-SEP-2009	16:53:07.822	17:05:05.450	717.62800
MM	75217	08-SEP-2009	19:02:40.714	19:15:18.686	757.97200
JO	75217	08-SEP-2009	19:23:40.545	19:34:38.892	658.34700
MM	75218	08-SEP-2009	20:42:04.903	20:54:48.852	763.94900
MA	75218	08-SEP-2009	19:41:33.373	19:53:48.578	735.20500
JO	75218	08-SEP-2009	21:01:17.581	21:16:12.159	894.57800
HO	75219	08-SEP-2009	22:15:19.633	22:26:43.827	684.19400
JO	75219	08-SEP-2009	22:43:41.015	22:50:33.590	412.57500
HO	75220	08-SEP-2009	23:52:19.124	00:06:48.353	869.22900

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## 1.5 - List of corrupted products

Station	Orbit	Time
MI	75208	02:53:41.37

## 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

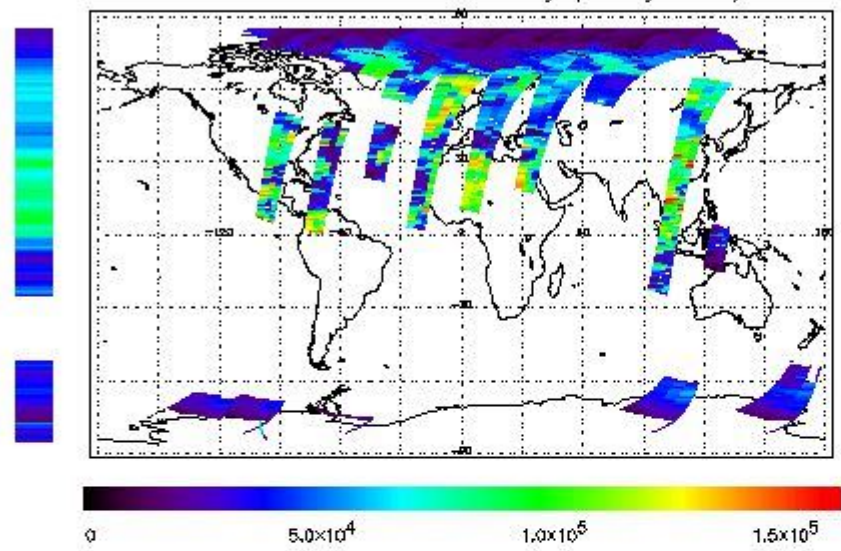
(1)

## 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

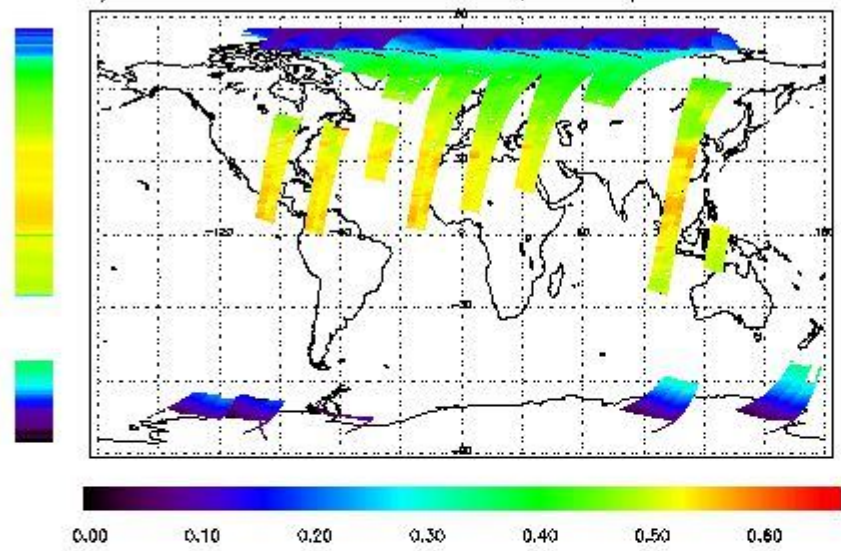
First Product : 07-SEP-2009 23:46:47.738 : ORBIT : 75206.1685

Last Product : 08-SEP-2009 23:24:18.853 : ORBIT : 75220.2593

Total Products Processed : 17687 Day : 251

Page : 20

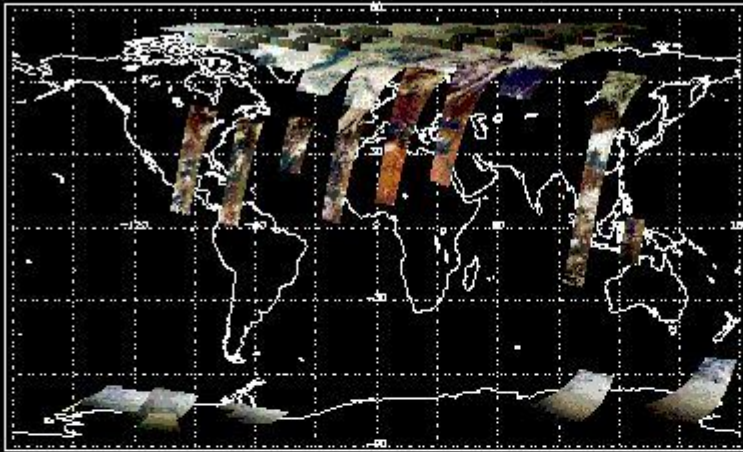
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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)
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(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)
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(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)
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(2)

#### 5.2 - TST44

Start Time	Start Orbit	Ground Station Visibility (Y/NS/NE)
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(2)

#### 5.3 - Power Cycle

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
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(2)

#### 5.4 - Wrong Command Execution

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
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(2)

#### 5.5 - Narrow Swath Timeline

Start Time	End Time	Start Orbit	End Orbit
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#### 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