

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	15-SEP-2009
Start Time of First Product	00:54:46
Stop Time of Last Product	23:04:26
Number of EGOI Products analysed	40
Number of corrupted products	1
Anomalies and/or Special Operations	Narrow Swath continued from previous day as planned, end orbit 75317

### 1.2 - List of received products

Name	Date	Time
EGOI_090915BEEP0693.E2	15-SEP-2009	03:04:22.818
EGOI_090915BEEP0699.E2	15-SEP-2009	04:44:59.424
EGOI_090915GSEP8819.E2	15-SEP-2009	01:01:35.572
EGOI_090915GSEP8851.E2	15-SEP-2009	02:37:40.654
EGOI_090915GSEP8866.E2	15-SEP-2009	04:18:53.268
EGOI_090915GSEP8873.E2	15-SEP-2009	06:01:16.393
EGOI_090915KSEP2131.E2	15-SEP-2009	06:19:25.498
EGOI_090915KSEP2160.E2	15-SEP-2009	07:59:17.108
EGOI_090915KSEP2186.E2	15-SEP-2009	09:38:53.715

EGOI_090915KSEP2221.E2	15-SEP-2009	11:18:30.322
EGOI_090915KSEP2239.E2	15-SEP-2009	12:57:41.424
EGOI_090915KSEP2263.E2	15-SEP-2009	14:36:31.526
EGOI_090915KSEP2278.E2	15-SEP-2009	16:14:11.121
EGOI_090915KSEP2310.E2	15-SEP-2009	17:52:14.716
EGOI_090915KSEP2337.E2	15-SEP-2009	19:30:10.811
EGOI_090915KSEP2371.E2	15-SEP-2009	21:10:26.422
EGOI_090915KSEP2383.E2	15-SEP-2009	22:53:00.044
EGOI_090915MAEP3869.E2	15-SEP-2009	09:46:29.758
EGOI_090915MAEP3886.E2	15-SEP-2009	19:25:12.280
EGOI_090915MIEP9183.E2	15-SEP-2009	02:34:25.635
EGOI_090915MIEP9206.E2	15-SEP-2009	04:13:53.236
EGOI_090915MIEP9230.E2	15-SEP-2009	14:54:39.132
EGOI_090915MIEP9260.E2	15-SEP-2009	16:32:59.231
EGOI_090915MMEP8273.E2	15-SEP-2009	01:58:20.916
EGOI_090915MMEP8280.E2	15-SEP-2009	03:41:14.041
EGOI_090915MMEP8287.E2	15-SEP-2009	05:23:34.162
EGOI_090915MMEP8297.E2	15-SEP-2009	08:46:15.897
EGOI_090915MMEP8305.E2	15-SEP-2009	12:07:03.615
EGOI_090915MMEP8313.E2	15-SEP-2009	13:46:29.721
EGOI_090915MMEP8323.E2	15-SEP-2009	17:05:50.430
EGOI_090915MMEP8331.E2	15-SEP-2009	20:24:17.143
EGOI_090915MMEP8339.E2	15-SEP-2009	22:04:28.244
EGOI_090915MSEP7276.E2	15-SEP-2009	00:54:46.029
EGOI_090915MSEP7299.E2	15-SEP-2009	11:31:30.400
EGOI_090915MSEP7323.E2	15-SEP-2009	13:12:16.010
EGOI_090915MSEP7350.E2	15-SEP-2009	22:40:38.970
EGOI_090915SGEP9732.E2	15-SEP-2009	03:15:22.885
EGOI_090915SGEP9741.E2	15-SEP-2009	04:56:38.494
EGOI_090915SGEP9749.E2	15-SEP-2009	14:12:50.882
EGOI_090915SGEP9755.E2	15-SEP-2009	15:50:22.971

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75310	15-SEP-2009	06:17:38.836	06:19:25.497	106.66100
KS	75311	15-SEP-2009	07:56:42.142	07:59:17.108	154.96600
KS	75312	15-SEP-2009	09:36:18.515	09:38:53.715	155.20000
KS	75313	15-SEP-2009	11:15:52.468	11:18:30.321	157.85300
KS	75314	15-SEP-2009	12:55:06.351	12:57:41.424	155.07300
KS	75315	15-SEP-2009	14:33:51.552	14:36:31.525	159.97300
KS	75316	15-SEP-2009	16:11:32.920	16:14:11.120	158.20000
KS	75317	15-SEP-2009	17:49:27.395	17:52:14.716	167.32100

KS	75318	15-SEP-2009	19:28:00.446	19:30:10.810	130.36400
KS	75319	15-SEP-2009	21:08:19.628	21:10:26.421	126.79300
KS	75320	15-SEP-2009	22:50:57.517	22:53:00.044	122.52700
GS	75307	15-SEP-2009	00:59:22.511	01:01:35.572	133.06100
GS	75308	15-SEP-2009	02:35:44.912	02:37:40.654	115.74200
GS	75309	15-SEP-2009	04:16:47.407	04:18:53.268	125.86100
GS	75309	15-SEP-2009	04:21:47.282	04:28:17.506	390.22400
MS	75313	15-SEP-2009	11:28:48.903	11:31:30.400	161.49700
MS	75314	15-SEP-2009	13:09:38.677	13:12:16.010	157.33300
MS	75320	15-SEP-2009	22:38:18.710	22:40:38.969	140.25900
MA	75312	15-SEP-2009	09:44:21.693	09:46:29.757	128.06400
MI	75308	15-SEP-2009	02:32:00.882	02:34:25.635	144.75300
MI	75309	15-SEP-2009	04:10:42.489	04:13:53.235	190.74600
MI	75315	15-SEP-2009	14:52:15.710	14:54:39.131	143.42100
MI	75316	15-SEP-2009	16:30:29.448	16:32:59.231	149.78300
MM	75307	15-SEP-2009	01:56:58.466	01:58:20.916	82.450000
MM	75308	15-SEP-2009	03:39:58.874	03:41:14.041	75.167000
MM	75311	15-SEP-2009	08:44:53.315	08:46:15.897	82.582000
MM	75313	15-SEP-2009	12:05:08.968	12:07:03.615	114.64700
MM	75314	15-SEP-2009	13:44:55.916	13:46:29.720	93.804000
MM	75316	15-SEP-2009	17:03:42.544	17:05:50.430	127.88600
MM	75318	15-SEP-2009	20:22:09.643	20:24:17.142	127.49900
MM	75319	15-SEP-2009	22:02:03.479	22:04:28.244	144.76500
MM	75320	15-SEP-2009	23:42:51.702	23:44:46.857	115.15500
BE	75308	15-SEP-2009	03:01:42.568	03:04:22.817	160.24900
BE	75309	15-SEP-2009	04:42:19.349	04:44:59.423	160.07400
SG	75308	15-SEP-2009	03:12:48.617	03:15:22.885	154.26800
SG	75309	15-SEP-2009	04:54:46.130	04:56:38.493	112.36300
SG	75314	15-SEP-2009	14:10:46.578	14:12:50.882	124.30400
SG	75315	15-SEP-2009	15:47:36.802	15:50:22.971	166.16900

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75306	15-SEP-2009	00:03:36.680	00:18:10.304	873.62400
MM	75306	15-SEP-2009	00:14:45.794	00:26:02.047	676.25300

HO	75307	15-SEP-2009	01:45:47.490	01:56:09.932	622.44200
CM	75308	15-SEP-2009	02:34:54.762	02:38:21.305	206.54300
CM	75308	15-SEP-2009	04:09:07.664	04:21:32.309	744.64500
MM	75310	15-SEP-2009	07:04:16.430	07:11:24.345	427.91500
JO	75310	15-SEP-2009	06:44:57.803	06:55:21.825	624.02200
MA	75311	15-SEP-2009	08:06:33.523	08:16:14.156	580.63300
JO	75311	15-SEP-2009	08:21:20.668	08:36:21.353	900.68500
MM	75312	15-SEP-2009	10:25:08.085	10:36:30.732	682.64700
JO	75312	15-SEP-2009	10:05:02.945	10:12:16.293	433.34800
MA	75313	15-SEP-2009	11:25:28.498	11:33:40.287	491.78900
BE	75315	15-SEP-2009	14:18:21.871	14:31:44.318	802.44700
MM	75315	15-SEP-2009	15:24:27.058	15:37:05.309	758.25100
GS	75315	15-SEP-2009	14:45:34.826	14:56:23.625	648.79900
CM	75315	15-SEP-2009	14:58:35.378	15:01:02.734	147.35600
BE	75316	15-SEP-2009	16:02:00.164	16:08:31.294	391.13000
GS	75316	15-SEP-2009	16:24:31.018	16:38:13.528	822.51000
CM	75316	15-SEP-2009	16:33:06.538	16:45:30.047	743.50900
MM	75317	15-SEP-2009	18:42:50.537	18:55:26.639	756.10200
GS	75317	15-SEP-2009	18:05:14.209	18:14:04.352	530.14300
JO	75317	15-SEP-2009	19:05:16.277	19:12:58.634	462.35700
JO	75318	15-SEP-2009	20:41:24.194	20:56:25.440	901.24600
HO	75319	15-SEP-2009	21:56:39.673	22:06:24.229	584.55600
MA	75319	15-SEP-2009	21:00:04.102	21:13:37.209	813.10700
JO	75319	15-SEP-2009	22:22:29.863	22:32:38.838	608.97500
HO	75320	15-SEP-2009	23:32:31.283	23:46:53.392	862.10900
MA	75320	15-SEP-2009	22:45:40.978	22:50:13.001	272.02300

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## 1.5 - List of corrupted products

Station	Orbit	Time
SG	75316	15:50:24.47

## 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

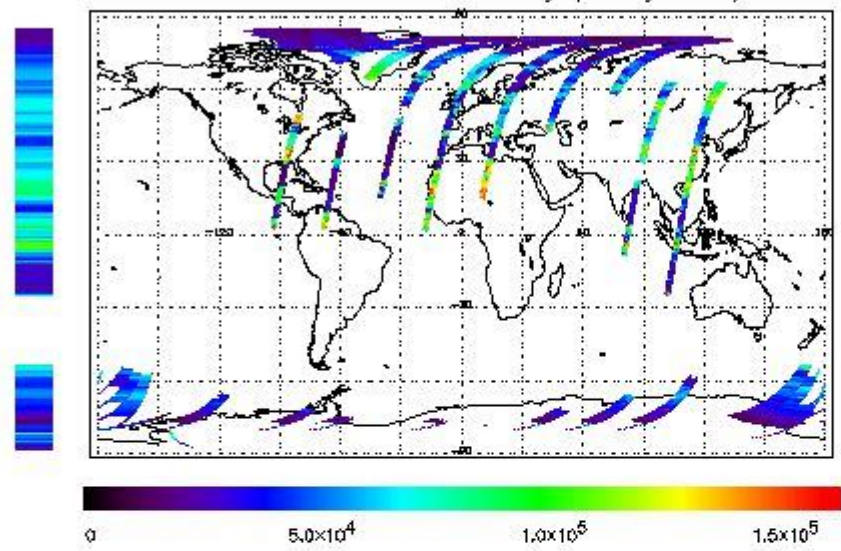
First Product : 15-SEP-2009 00:54:46.028 : ORBIT : 75307.0441

Last Product : 15-SEP-2009 23:04:25.814 : ORBIT : 75320.2616

Total Products Processed : 18734 Day : 258

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778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

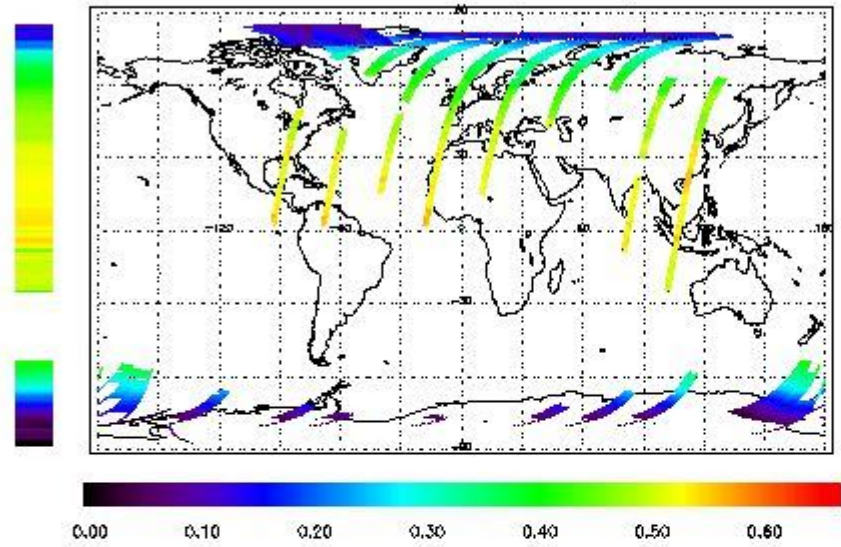
First Product : 15-SEP-2009 00:54:46.029 : ORBIT : 75307.0441

Last Product : 15-SEP-2009 23:04:25.614 : ORBIT : 75320.2616

Total Products Processed : 18734 Day : 258

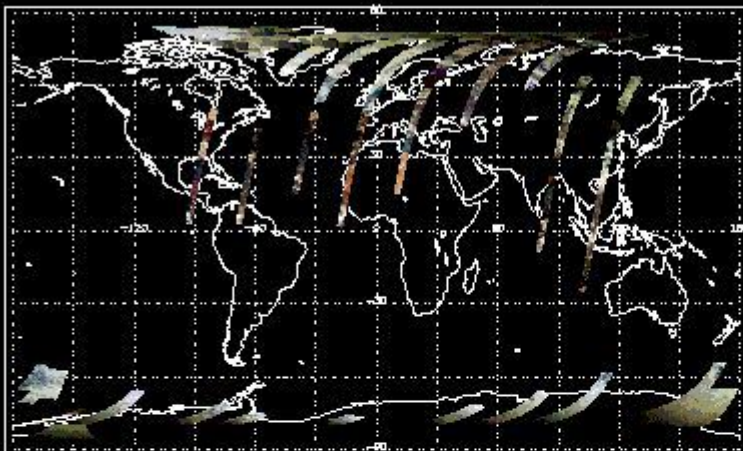
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331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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	17:59:11.755	--	75317	Y	--	15062

(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)
--	--	--	--	--

(2)

#### 5.5 - Narrow Swath Timeline

Start Time	End Time	Start Orbit	End Orbit
20:00	18:00	75304	75317

#### 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