

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	15-Aug-2009
Start Time of First Product	23: 42: 40 14-Aug-2009
Stop Time of Last Product	23: 23: 17 15-Aug-2009
Number of EGOI Products analysed	31
Number of corrupted products	2
Anomalies and/or Special Operations	Narrow Swath mode continued from previous day as planned; end orbit 74872

### 1.2 - List of received products

Name	Date	Time
EGOI_090815GSEP6741.E2	15-AUG-2009	02:12:29.200
EGOI_090815GSEP6768.E2	15-AUG-2009	03:52:26.810
EGOI_090815GSEP6775.E2	15-AUG-2009	05:36:10.939
EGOI_090815HLEP3090.E2	14-AUG-2009	23:42:40.292
EGOI_090815HLEP3098.E2	15-AUG-2009	01:23:22.902
EGOI_090815HLEP3107.E2	15-AUG-2009	15:14:00.941
EGOI_090815HLEP3116.E2	15-AUG-2009	21:39:01.776
EGOI_090815HLEP3124.E2	15-AUG-2009	23:16:50.376
EGOI_090815KSEP4163.E2	15-AUG-2009	07:33:14.649

EGOI_090815KSEP4184.E2	15-AUG-2009	09:13:15.252
EGOI_090815KSEP4213.E2	15-AUG-2009	10:52:53.361
EGOI_090815KSEP4241.E2	15-AUG-2009	12:32:13.463
EGOI_090815KSEP4253.E2	15-AUG-2009	14:11:09.558
EGOI_090815KSEP4283.E2	15-AUG-2009	15:49:04.152
EGOI_090815KSEP4311.E2	15-AUG-2009	17:26:58.747
EGOI_090815KSEP4334.E2	15-AUG-2009	19:04:50.342
EGOI_090815KSEP4369.E2	15-AUG-2009	20:44:25.448
EGOI_090815KSEP4389.E2	15-AUG-2009	22:26:23.071
EGOI_090815MAEP2763.E2	15-AUG-2009	09:21:00.299
EGOI_090815MAEP2773.E2	15-AUG-2009	11:00:32.404
EGOI_090815MAEP2779.E2	15-AUG-2009	19:04:47.342
EGOI_090815MAEP2792.E2	15-AUG-2009	22:18:21.516
EGOI_090815MIEP6651.E2	15-AUG-2009	02:10:17.189
EGOI_090815MIEP6673.E2	15-AUG-2009	03:47:10.275
EGOI_090815MIEP6692.E2	15-AUG-2009	14:30:44.179
EGOI_090815MIEP6708.E2	15-AUG-2009	16:07:17.762
EGOI_090815MIEP6726.E2	15-AUG-2009	17:49:34.887
EGOI_090815MSEP3861.E2	15-AUG-2009	00:27:22.562
EGOI_090815MSEP3881.E2	15-AUG-2009	11:06:05.439
EGOI_090815MSEP3908.E2	15-AUG-2009	12:45:51.041
EGOI_090815MSEP3932.E2	15-AUG-2009	22:15:42.501

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74867	15-AUG-2009	07:31:07.812	07:33:14.648	126.83600
KS	74868	15-AUG-2009	09:10:41.216	09:13:15.252	154.03600
KS	74869	15-AUG-2009	10:50:17.505	10:52:53.361	155.85600
KS	74870	15-AUG-2009	12:29:38.332	12:32:13.462	155.13000
KS	74871	15-AUG-2009	14:08:31.233	14:11:09.558	158.32500
KS	74872	15-AUG-2009	15:46:25.764	15:49:04.151	158.38700
KS	74873	15-AUG-2009	17:24:18.515	17:26:58.747	160.23200
KS	74874	15-AUG-2009	19:02:30.152	19:04:50.341	140.18900
KS	74875	15-AUG-2009	20:42:20.350	20:44:25.447	125.09700
KS	74876	15-AUG-2009	22:24:17.859	22:26:23.071	125.21200
GS	74864	15-AUG-2009	02:10:39.721	02:12:29.200	109.47900
GS	74865	15-AUG-2009	03:50:17.157	03:52:26.810	129.65300
MS	74863	15-AUG-2009	00:24:58.333	00:27:22.562	144.22900
MS	74869	15-AUG-2009	11:03:28.050	11:06:05.439	157.38900
MS	74870	15-AUG-2009	12:43:10.565	12:45:51.041	160.47600

MS	74876	15-AUG-2009	22:13:29.080	22:15:42.500	133.42000
MS	74877	15-AUG-2009	23:52:23.173	23:54:47.603	144.43000
MA	74868	15-AUG-2009	09:19:00.978	09:21:00.299	119.32100
MA	74869	15-AUG-2009	10:58:49.003	11:00:32.403	103.40000
MA	74874	15-AUG-2009	19:00:51.428	19:04:47.342	235.91400
MI	74864	15-AUG-2009	02:07:55.231	02:10:17.189	141.95800
MI	74865	15-AUG-2009	03:44:41.308	03:47:10.274	148.96600
MI	74871	15-AUG-2009	14:28:29.536	14:30:44.179	134.64300
MI	74872	15-AUG-2009	16:04:46.281	16:07:17.761	151.48000
MI	74873	15-AUG-2009	17:47:23.316	17:49:34.886	131.57000

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	74862	14-AUG-2009	23:48:39.231	00:00:17.455	698.22400
MM	74863	15-AUG-2009	01:30:35.679	01:40:29.528	593.84900
GS	74863	15-AUG-2009	00:35:33.460	00:42:46.613	433.15300
BE	74864	15-AUG-2009	02:36:14.396	02:49:24.767	790.37100
MM	74864	15-AUG-2009	03:13:27.491	03:21:01.095	453.60400
SG	74864	15-AUG-2009	02:47:47.170	03:00:36.549	769.37900
CM	74864	15-AUG-2009	03:43:47.132	03:55:54.805	727.67300
BE	74865	15-AUG-2009	04:16:09.710	04:27:29.566	679.85600
MM	74865	15-AUG-2009	04:56:26.716	05:02:17.522	350.80600
SG	74865	15-AUG-2009	04:27:34.918	04:39:00.061	685.14300
MM	74866	15-AUG-2009	06:38:17.453	06:44:53.259	395.80600
KS	74866	15-AUG-2009	05:52:41.826	05:56:43.245	241.41900
CM	74866	15-AUG-2009	05:25:39.730	05:32:48.298	428.56800
JO	74866	15-AUG-2009	06:22:01.993	06:28:01.963	359.97000
MM	74867	15-AUG-2009	08:19:03.786	08:27:57.326	533.54000
JO	74867	15-AUG-2009	07:55:55.594	08:10:46.583	890.98900
MM	74868	15-AUG-2009	09:59:22.861	10:10:21.008	658.14700
JO	74868	15-AUG-2009	09:37:12.118	09:48:35.832	683.71400
MM	74869	15-AUG-2009	11:39:27.153	11:51:41.052	733.89900
MM	74870	15-AUG-2009	13:19:17.843	13:32:00.096	762.25300
MM	74871	15-AUG-2009	14:58:53.217	15:11:33.848	760.63100
GS	74871	15-AUG-2009	14:20:37.971	14:30:54.261	616.29000

SG	74871	15-AUG-2009	15:21:58.719	15:35:51.288	832.56900
BE	74872	15-AUG-2009	15:34:18.814	15:44:23.438	604.62400
MM	74872	15-AUG-2009	16:38:12.364	16:50:44.787	752.42300
GS	74872	15-AUG-2009	15:58:53.796	16:12:49.829	836.03300
CM	74872	15-AUG-2009	16:07:41.542	16:19:53.177	731.63500
MM	74873	15-AUG-2009	18:17:20.903	18:29:54.886	753.98300
GS	74873	15-AUG-2009	17:39:06.796	17:49:56.265	649.46900
CM	74873	15-AUG-2009	17:49:02.210	17:56:15.841	433.63100
MM	74874	15-AUG-2009	19:56:34.920	20:09:17.543	762.62300
JO	74874	15-AUG-2009	20:16:02.665	20:30:39.247	876.58200
MM	74875	15-AUG-2009	21:36:17.671	21:48:56.673	759.00200
MA	74875	15-AUG-2009	20:34:25.643	20:48:06.170	820.52700
JO	74875	15-AUG-2009	21:56:01.259	22:08:39.123	757.86400
MM	74876	15-AUG-2009	23:16:50.463	23:28:50.808	720.34500

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## 1.5 - List of corrupted products

Station	Orbit	Time
GS	74866	05:45:31,
HL	74871	15:16:21

## 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	OK
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

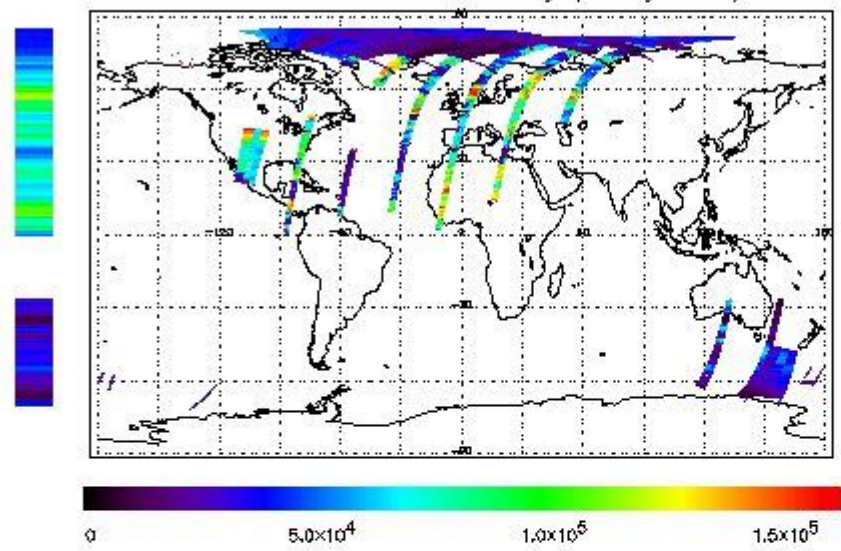
(1)

## 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)

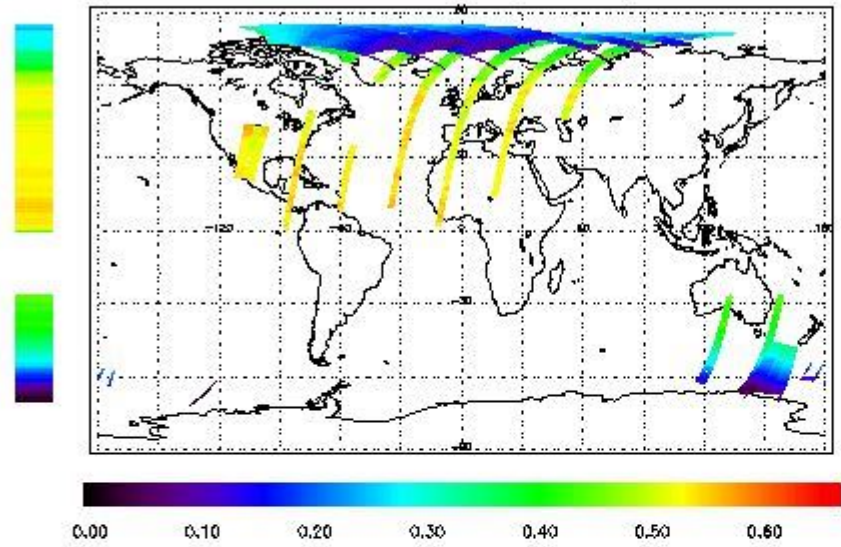


Ozone Line Ratio

First Product : 14-AUG-2008 23:42:40.292 : ORBIT : 74862.5846  
Last Product : 15-AUG-2008 23:23:27.811 : ORBIT : 74876.7080  
Total Products Processed : 13532 Day : 227

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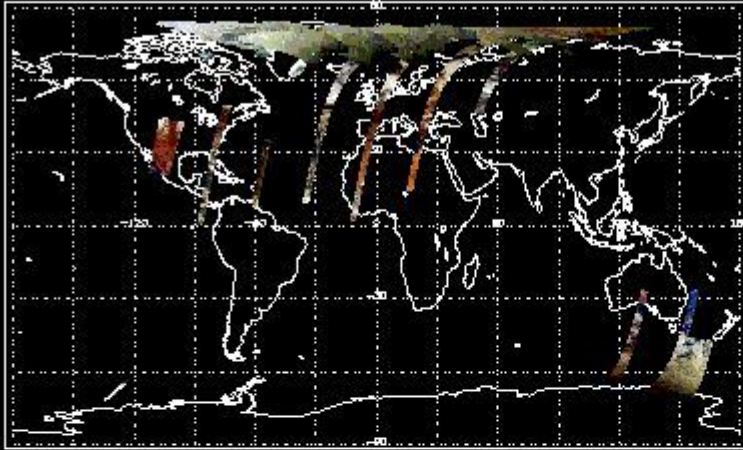
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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	17:29:57.266	--	74873	Y	--	14857

(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
00:00	17:00	74862	74872

#### 5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
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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