

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	18-AUG-2009
Start Time of First Product	17-AUG-2009 23:49:11
Stop Time of Last Product	18-AUG-2009 23:37:19
Number of EGOI Products analysed	38
Number of corrupted products	2
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090818BEEP0468.E2	18-AUG-2009	02:44:30.099
EGOI_090818GSEP6963.E2	18-AUG-2009	02:18:14.939
EGOI_090818GSEP6988.E2	18-AUG-2009	03:58:18.544
EGOI_090818GSEP6995.E2	18-AUG-2009	05:40:50.665
EGOI_090818HLEP3211.E2	17-AUG-2009	23:49:11.030
EGOI_090818HLEP3217.E2	18-AUG-2009	01:29:19.145
EGOI_090818HLEP3221.E2	18-AUG-2009	12:00:51.470
EGOI_090818HLEP3226.E2	18-AUG-2009	13:38:34.065
EGOI_090818HLEP3236.E2	18-AUG-2009	15:19:45.180

EGOI_090818HLEP3244.E2	18-AUG-2009	21:43:52.007
EGOI_090818HLEP3251.E2	18-AUG-2009	23:17:42.075
EGOI_090818KSEP4961.E2	18-AUG-2009	07:39:00.383
EGOI_090818KSEP4988.E2	18-AUG-2009	10:58:34.591
EGOI_090818KSEP5016.E2	18-AUG-2009	12:37:53.193
EGOI_090818KSEP5029.E2	18-AUG-2009	14:16:49.292
EGOI_090818KSEP5043.E2	18-AUG-2009	15:54:37.887
EGOI_090818KSEP5059.E2	18-AUG-2009	17:32:35.481
EGOI_090818KSEP5094.E2	18-AUG-2009	19:10:24.076
EGOI_090818KSEP5129.E2	18-AUG-2009	20:50:12.683
EGOI_090818KSEP5159.E2	18-AUG-2009	22:32:14.801
EGOI_090818MAEP2895.E2	18-AUG-2009	09:27:49.039
EGOI_090818MAEP2904.E2	18-AUG-2009	11:06:16.638
EGOI_090818MIEP6959.E2	18-AUG-2009	02:15:37.423
EGOI_090818MIEP6971.E2	18-AUG-2009	03:53:36.513
EGOI_090818MIEP6990.E2	18-AUG-2009	14:35:53.909
EGOI_090818MIEP7016.E2	18-AUG-2009	16:12:58.996
EGOI_090818MIEP7035.E2	18-AUG-2009	17:56:01.122
EGOI_090818MMEP7353.E2	17-AUG-2009	23:56:12.573
EGOI_090818MMEP7362.E2	18-AUG-2009	05:03:06.939
EGOI_090818MMEP7370.E2	18-AUG-2009	06:45:04.552
EGOI_090818MMEP7380.E2	18-AUG-2009	10:06:40.277
EGOI_090818MMEP7387.E2	18-AUG-2009	13:26:35.487
EGOI_090818MMEP7398.E2	18-AUG-2009	18:25:40.301
EGOI_090818MMEP7408.E2	18-AUG-2009	23:24:34.618
EGOI_090818MSEP4197.E2	18-AUG-2009	00:33:02.301
EGOI_090818MSEP4217.E2	18-AUG-2009	11:11:48.169
EGOI_090818MSEP4242.E2	18-AUG-2009	12:51:41.279
EGOI_090818MSEP4274.E2	18-AUG-2009	22:21:17.738

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74910	18-AUG-2009	07:36:48.594	07:39:00.383	131.78900
KS	74912	18-AUG-2009	10:55:58.706	10:58:34.591	155.88500
KS	74913	18-AUG-2009	12:35:18.101	12:37:53.193	155.09200
KS	74914	18-AUG-2009	14:14:09.877	14:16:49.291	159.41400
KS	74915	18-AUG-2009	15:52:00.776	15:54:37.886	157.11000
KS	74916	18-AUG-2009	17:29:55.435	17:32:35.480	160.04500
KS	74917	18-AUG-2009	19:08:09.682	19:10:24.075	134.39300
KS	74918	18-AUG-2009	20:48:06.113	20:50:12.683	126.57000
KS	74919	18-AUG-2009	22:30:12.246	22:32:14.801	122.55500

GS	74907	18-AUG-2009	02:16:48.933	02:18:14.938	86.005000
GS	74908	18-AUG-2009	03:56:08.240	03:58:18.543	130.30300
MS	74906	18-AUG-2009	00:31:01.767	00:33:02.301	120.53400
MS	74912	18-AUG-2009	11:09:05.065	11:11:48.168	163.10300
MS	74913	18-AUG-2009	12:49:04.845	12:51:41.278	156.43300
MS	74919	18-AUG-2009	22:18:57.671	22:21:17.737	140.06600
MA	74911	18-AUG-2009	09:24:32.319	09:27:49.039	196.72000
MA	74912	18-AUG-2009	11:04:58.449	11:06:16.637	78.188000
MI	74907	18-AUG-2009	02:13:12.135	02:15:37.423	145.28800
MI	74908	18-AUG-2009	03:50:25.778	03:53:36.513	190.73500
MI	74908	18-AUG-2009	04:01:38.063	04:03:33.318	115.25500
MI	74914	18-AUG-2009	14:33:37.237	14:35:53.909	136.67200
MI	74915	18-AUG-2009	16:10:27.784	16:12:58.995	151.21100
MI	74916	18-AUG-2009	17:53:58.534	17:56:01.122	122.58800
MM	74905	17-AUG-2009	23:54:26.978	23:56:12.573	105.59500
MM	74909	18-AUG-2009	06:44:04.229	06:45:04.551	60.322000
MM	74911	18-AUG-2009	10:05:06.323	10:06:40.277	93.954000
MM	74913	18-AUG-2009	13:24:59.726	13:26:35.486	95.760000
MM	74916	18-AUG-2009	18:23:00.782	18:25:40.300	159.51800
MM	74919	18-AUG-2009	23:22:37.035	23:24:34.618	117.58300
BE	74907	18-AUG-2009	02:41:53.105	02:44:30.099	156.99400

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	74906	18-AUG-2009	01:36:27.089	01:46:13.553	586.46400
GS	74906	18-AUG-2009	00:40:47.639	00:48:39.812	472.17300
MM	74907	18-AUG-2009	03:19:21.108	03:26:46.708	445.60000
SG	74907	18-AUG-2009	02:53:18.266	03:06:25.055	786.78900
CM	74907	18-AUG-2009	03:49:22.528	04:01:38.355	735.82700
BE	74908	18-AUG-2009	04:21:57.052	04:32:55.758	658.70600
SG	74908	18-AUG-2009	04:33:31.444	04:44:22.062	650.61800
KS	74909	18-AUG-2009	05:58:10.509	06:02:58.015	287.50600
CM	74909	18-AUG-2009	05:31:59.633	05:37:52.290	352.65700
JO	74909	18-AUG-2009	06:26:56.998	06:34:15.819	438.82100
MM	74910	18-AUG-2009	08:24:48.256	08:33:49.878	541.62200

JO	74910	18-AUG-2009	08:01:32.544	08:16:28.822	896.27800
KS	74911	18-AUG-2009	09:16:22.841	09:30:03.998	821.15700
JO	74911	18-AUG-2009	09:43:15.595	09:53:58.612	643.01700
MM	74912	18-AUG-2009	11:45:09.856	11:57:26.539	736.68300
BE	74914	18-AUG-2009	13:58:29.206	14:11:52.264	803.05800
MM	74914	18-AUG-2009	15:04:34.166	15:17:14.287	760.12100
GS	74914	18-AUG-2009	14:26:08.553	14:36:54.929	646.37600
SG	74914	18-AUG-2009	15:27:38.350	15:41:31.414	833.06400
BE	74915	18-AUG-2009	15:40:21.416	15:49:50.674	569.25800
MM	74915	18-AUG-2009	16:43:52.461	16:56:24.638	752.17700
GS	74915	18-AUG-2009	16:04:34.886	16:18:29.906	835.02000
CM	74915	18-AUG-2009	16:13:18.472	16:25:37.210	738.73800
GS	74916	18-AUG-2009	17:44:53.900	17:55:20.336	626.43600
CM	74916	18-AUG-2009	17:55:12.656	18:01:19.000	366.34400
MM	74917	18-AUG-2009	20:02:15.790	20:14:58.764	762.97400
MA	74917	18-AUG-2009	19:05:58.016	19:12:57.323	419.30700
JO	74917	18-AUG-2009	20:21:39.427	20:36:24.911	885.48400
MM	74918	18-AUG-2009	21:42:00.884	21:54:38.816	757.93200
MA	74918	18-AUG-2009	20:40:04.379	20:53:45.584	821.20500
JO	74918	18-AUG-2009	22:01:51.686	22:14:02.752	731.06600
MA	74919	18-AUG-2009	22:23:31.554	22:31:48.059	496.50500
MS	74920	18-AUG-2009	23:58:14.330	00:10:28.139	733.80900

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## 1.5 - List of corrupted products

Station	Orbit	Time
HL	74905	23:54:09,
HL	74906	01:36:35,

## 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

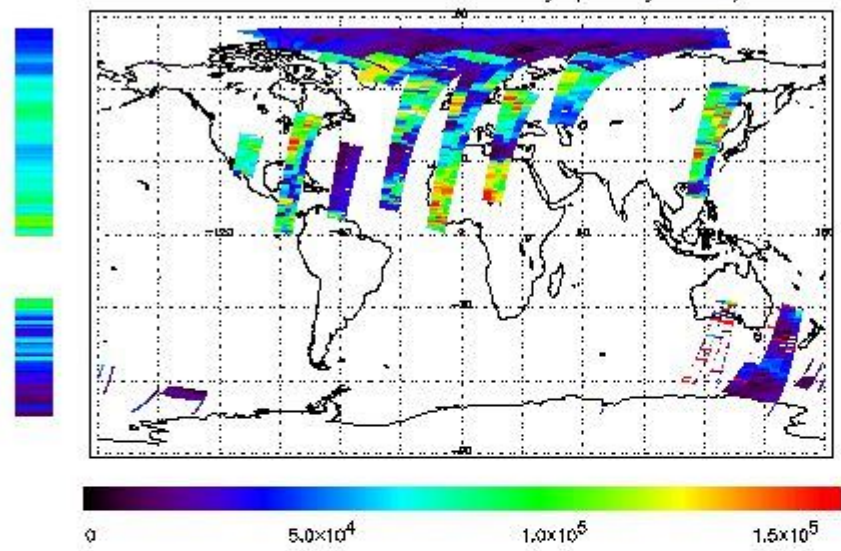
(1)

## 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

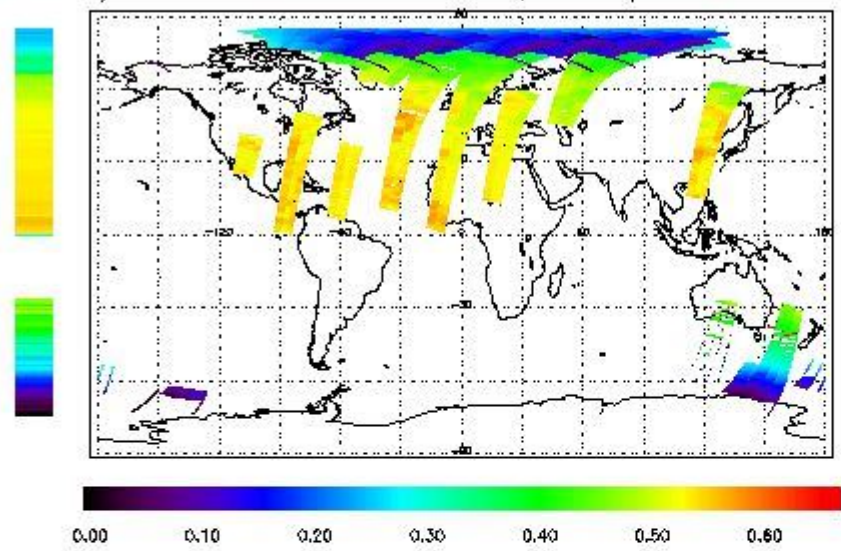
First Product : 17-AUG-2008 23:49:11.030 : ORBIT : 74905.5922

Last Product : 18-AUG-2008 23:37:19.696 : ORBIT : 74919.7887

Total Products Processed : 18389 Day : 230

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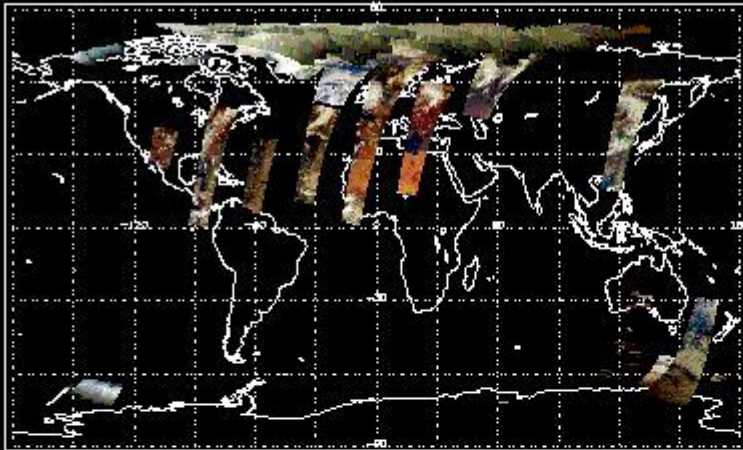
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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	19:16:36.110	--	74917	Y	--	14897

(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)
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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
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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