

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	17-Aug-2009
Start Time of First Product	00:19:28
Stop Time of Last Product	23:15:46
Number of EGOI Products analysed	35
Number of corrupted products	2
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090817BEEP0462.E2	17-AUG-2009	03:15:44.054
EGOI_090817GSEP6866.E2	17-AUG-2009	01:12:22.304
EGOI_090817GSEP6898.E2	17-AUG-2009	02:48:57.394
EGOI_090817GSEP6927.E2	17-AUG-2009	04:30:41.507
EGOI_090817HLEP3171.E2	17-AUG-2009	00:19:29.483
EGOI_090817HLEP3179.E2	17-AUG-2009	02:02:39.108
EGOI_090817HLEP3187.E2	17-AUG-2009	12:30:36.914
EGOI_090817HLEP3196.E2	17-AUG-2009	14:10:03.021
EGOI_090817HLEP3204.E2	17-AUG-2009	22:12:17.944

EGOI_090817KSEP4688.E2	17-AUG-2009	06:30:42.233
EGOI_090817KSEP4709.E2	17-AUG-2009	08:10:36.843
EGOI_090817KSEP4736.E2	17-AUG-2009	09:50:16.445
EGOI_090817KSEP4762.E2	17-AUG-2009	11:29:53.047
EGOI_090817KSEP4781.E2	17-AUG-2009	13:08:59.649
EGOI_090817KSEP4794.E2	17-AUG-2009	14:47:45.251
EGOI_090817KSEP4809.E2	17-AUG-2009	16:25:24.843
EGOI_090817KSEP4840.E2	17-AUG-2009	18:03:29.936
EGOI_090817KSEP4876.E2	17-AUG-2009	19:41:33.536
EGOI_090817KSEP4902.E2	17-AUG-2009	21:21:59.643
EGOI_090817KSEP4929.E2	17-AUG-2009	23:04:46.769
EGOI_090817MAEP2849.E2	17-AUG-2009	08:19:48.898
EGOI_090817MAEP2864.E2	17-AUG-2009	09:57:37.492
EGOI_090817MAEP2880.E2	17-AUG-2009	21:14:29.596
EGOI_090817MIEP6854.E2	17-AUG-2009	02:45:25.870
EGOI_090817MIEP6880.E2	17-AUG-2009	04:24:50.472
EGOI_090817MIEP6906.E2	17-AUG-2009	15:05:34.853
EGOI_090817MIEP6935.E2	17-AUG-2009	16:44:35.456
EGOI_090817MMEP7322.E2	17-AUG-2009	03:52:51.776
EGOI_090817MMEP7332.E2	17-AUG-2009	07:16:54.515
EGOI_090817MMEP7340.E2	17-AUG-2009	08:57:47.625
EGOI_090817MSEP4081.E2	17-AUG-2009	10:05:46.539
EGOI_090817MSEP4104.E2	17-AUG-2009	11:44:30.637
EGOI_090817MSEP4126.E2	17-AUG-2009	13:24:16.239
EGOI_090817MSEP4140.E2	17-AUG-2009	21:17:23.611
EGOI_090817MSEP4172.E2	17-AUG-2009	22:51:25.683

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74895	17-AUG-2009	06:28:52.674	06:30:42.233	109.55900
KS	74896	17-AUG-2009	08:08:04.611	08:10:36.843	152.23200
KS	74897	17-AUG-2009	09:47:41.714	09:50:16.444	154.73000
KS	74898	17-AUG-2009	11:27:14.275	11:29:53.046	158.77100
KS	74899	17-AUG-2009	13:06:24.643	13:08:59.649	155.00600
KS	74900	17-AUG-2009	14:45:06.039	14:47:45.250	159.21100
KS	74901	17-AUG-2009	16:22:45.999	16:25:24.843	158.84400
KS	74902	17-AUG-2009	18:00:34.578	18:03:29.936	175.35800
KS	74903	17-AUG-2009	19:39:22.647	19:41:33.536	130.88900
KS	74904	17-AUG-2009	21:19:55.494	21:21:59.642	124.14800
KS	74905	17-AUG-2009	23:02:52.821	23:04:46.768	113.94700
GS	74892	17-AUG-2009	01:10:07.706	01:12:22.304	134.59800

GS	74893	17-AUG-2009	02:47:03.040	02:48:57.393	114.35300
GS	74894	17-AUG-2009	04:28:44.152	04:30:41.506	117.35400
MS	74898	17-AUG-2009	11:40:10.126	11:44:30.637	260.51100
MS	74899	17-AUG-2009	13:21:33.756	13:24:16.238	162.48200
MS	74905	17-AUG-2009	22:49:29.173	22:51:25.683	116.51000
MA	74896	17-AUG-2009	08:17:23.182	08:19:48.897	145.71500
MA	74897	17-AUG-2009	09:55:44.062	09:57:37.492	113.43000
MA	74904	17-AUG-2009	21:11:40.299	21:14:29.595	169.29600
MI	74893	17-AUG-2009	02:42:56.426	02:45:25.870	149.44400
MI	74894	17-AUG-2009	04:22:26.557	04:24:50.471	143.91400
MI	74900	17-AUG-2009	15:03:10.535	15:05:34.853	144.31800
MI	74901	17-AUG-2009	16:42:00.857	16:44:35.456	154.59900
MM	74893	17-AUG-2009	03:51:46.049	03:52:51.776	65.727000
MM	74895	17-AUG-2009	07:15:48.178	07:16:54.514	66.336000
MM	74896	17-AUG-2009	08:56:21.550	08:57:47.625	86.075000
MM	74905	17-AUG-2009	23:54:26.978	23:56:12.573	105.59500
BE	74893	17-AUG-2009	03:13:04.811	03:15:44.054	159.24300

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	74891	17-AUG-2009	00:26:23.454	00:37:28.819	665.36500
MM	74892	17-AUG-2009	02:08:43.051	02:17:46.840	543.78900
SG	74893	17-AUG-2009	03:24:04.567	03:37:57.357	832.79000
CM	74893	17-AUG-2009	02:44:32.020	02:51:09.981	397.96100
CM	74893	17-AUG-2009	04:20:32.658	04:32:48.591	735.93300
BE	74894	17-AUG-2009	04:54:04.273	05:02:21.704	497.43100
MM	74894	17-AUG-2009	05:34:26.676	05:40:15.064	348.38800
JO	74895	17-AUG-2009	06:55:33.909	07:07:10.519	696.61000
JO	74896	17-AUG-2009	08:32:45.773	08:47:38.957	893.18400
MM	74897	17-AUG-2009	10:36:34.568	10:48:06.982	692.41400
MM	74898	17-AUG-2009	12:16:33.929	12:29:03.200	749.27100
MA	74898	17-AUG-2009	11:37:06.349	11:44:17.139	430.79000
MM	74899	17-AUG-2009	13:56:19.165	14:09:03.099	763.93400
SG	74899	17-AUG-2009	14:21:19.023	14:31:59.528	640.50500
BE	74900	17-AUG-2009	14:29:49.001	14:43:02.856	793.85500

MM	74900	17-AUG-2009	15:35:48.417	15:48:25.584	757.16700
GS	74900	17-AUG-2009	14:56:46.008	15:09:28.271	762.26300
SG	74900	17-AUG-2009	15:59:08.748	16:12:19.650	790.90200
CM	74900	17-AUG-2009	15:07:58.829	15:14:27.535	388.70600
MM	74901	17-AUG-2009	17:15:02.436	17:27:33.971	751.53500
GS	74901	17-AUG-2009	16:35:56.093	16:49:25.264	809.17100
CM	74901	17-AUG-2009	16:44:31.343	16:56:43.899	732.55600
MM	74902	17-AUG-2009	18:54:10.573	19:06:47.731	757.15800
GS	74902	17-AUG-2009	18:16:57.030	18:24:37.768	460.73800
JO	74902	17-AUG-2009	19:15:40.487	19:25:29.039	588.55200
MM	74903	17-AUG-2009	20:33:32.464	20:46:16.466	764.00200
MA	74903	17-AUG-2009	19:33:20.530	19:45:07.506	706.97600
JO	74903	17-AUG-2009	20:52:45.116	21:07:45.236	900.12000
MM	74904	17-AUG-2009	22:13:31.656	22:26:01.439	749.78300
JO	74904	17-AUG-2009	22:34:29.854	22:43:00.450	510.59600
HO	74905	17-AUG-2009	23:43:52.512	23:58:16.070	863.55800

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## 1.5 - List of corrupted products

Station	Orbit	Time
HL	74892	02:05:58
HL	74900	12:36:23

## 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

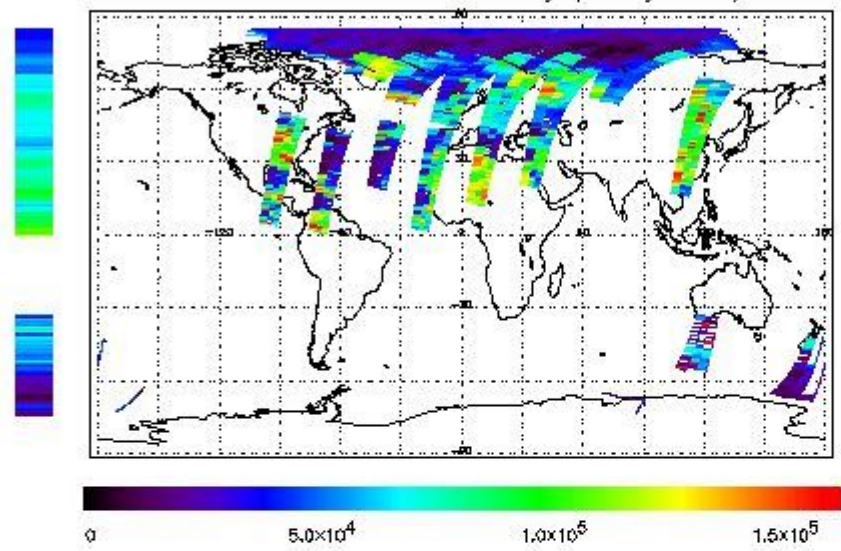
(1)

## 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

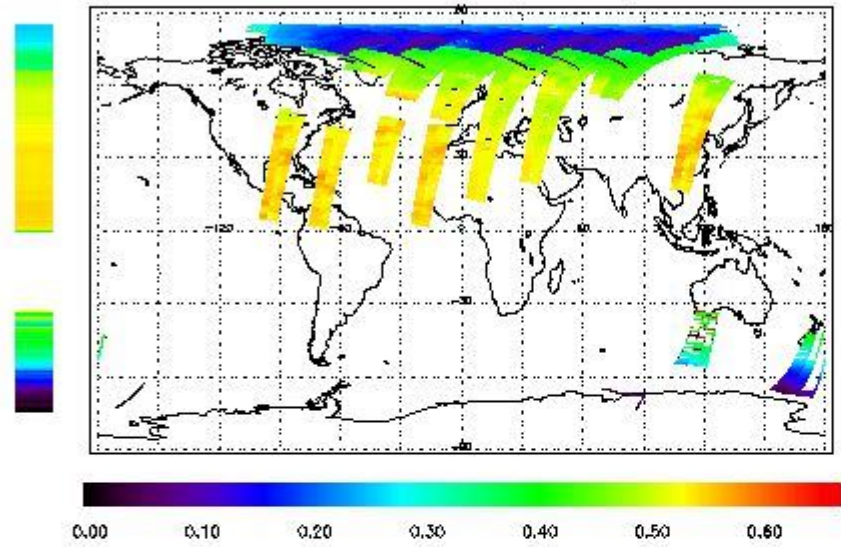
First Product : 17-AUG-2008 00:19:29.483 : ORBIT : 74891.5792

Last Product : 17-AUG-2008 23:15:46.831 : ORBIT : 74905.2602

Total Products Processed : 15393 Day : 229

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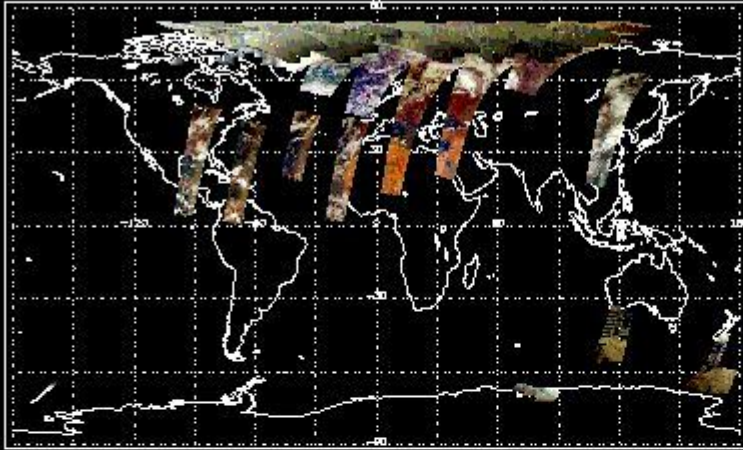
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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	19:48:09.571	--	74903	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)
--	--	--	--	--

(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