

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	04-AUG-2009
Start Time of First Product	23:46:47 (03-AUG-2009)
Stop Time of Last Product	23:24:16
Number of EGOI Products analysed	41
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090804BEEP0354.E2	04-AUG-2009	03:24:15.698
EGOI_090804GSEP5969.E2	04-AUG-2009	01:20:13.447
EGOI_090804GSEP5975.E2	04-AUG-2009	02:57:42.542
EGOI_090804GSEP5981.E2	04-AUG-2009	04:39:43.159
EGOI_090804GSEP5986.E2	04-AUG-2009	06:32:40.843
EGOI_090804GSEP5991.E2	04-AUG-2009	06:32:40.848
EGOI_090804HLEP2719.E2	04-AUG-2009	11:02:39.481
EGOI_090804HLEP2727.E2	04-AUG-2009	12:41:04.081
EGOI_090804HLEP2732.E2	04-AUG-2009	14:20:15.179

EGOI_090804KSEP1321.E2	03-AUG-2009	23:46:47.385
EGOI_090804KSEP1330.E2	04-AUG-2009	06:39:13.886
EGOI_090804KSEP1339.E2	04-AUG-2009	08:19:08.488
EGOI_090804KSEP1358.E2	04-AUG-2009	09:58:48.095
EGOI_090804KSEP1378.E2	04-AUG-2009	11:38:23.197
EGOI_090804KSEP1395.E2	04-AUG-2009	13:17:25.300
EGOI_090804KSEP1403.E2	04-AUG-2009	14:56:09.398
EGOI_090804KSEP1414.E2	04-AUG-2009	16:33:47.488
EGOI_090804KSEP1441.E2	04-AUG-2009	18:11:45.088
EGOI_090804KSEP1471.E2	04-AUG-2009	19:50:07.682
EGOI_090804KSEP1499.E2	04-AUG-2009	21:30:44.293
EGOI_090804KSEP1523.E2	04-AUG-2009	23:13:38.914
EGOI_090804MAEP2356.E2	04-AUG-2009	08:28:13.043
EGOI_090804MAEP2360.E2	04-AUG-2009	10:06:22.642
EGOI_090804MAEP2374.E2	04-AUG-2009	11:47:39.756
EGOI_090804MAEP2399.E2	04-AUG-2009	21:23:02.246
EGOI_090804MIEP5688.E2	04-AUG-2009	02:53:45.514
EGOI_090804MIEP5694.E2	04-AUG-2009	04:34:01.128
EGOI_090804MIEP5716.E2	04-AUG-2009	15:13:50.003
EGOI_090804MIEP5743.E2	04-AUG-2009	16:53:07.105
EGOI_090804MMEP6722.E2	04-AUG-2009	04:01:33.925
EGOI_090804MMEP6728.E2	04-AUG-2009	05:43:58.546
EGOI_090804MMEP6734.E2	04-AUG-2009	07:25:33.664
EGOI_090804MMEP6740.E2	04-AUG-2009	09:06:22.277
EGOI_090804MMEP6747.E2	04-AUG-2009	10:46:42.388
EGOI_090804MMEP6760.E2	04-AUG-2009	22:24:08.618
EGOI_090804MSEP2643.E2	04-AUG-2009	10:13:58.685
EGOI_090804MSEP2672.E2	04-AUG-2009	11:51:18.779
EGOI_090804MSEP2692.E2	04-AUG-2009	13:33:11.894
EGOI_090804MSEP2712.E2	04-AUG-2009	21:24:54.757
EGOI_090804MSEP2743.E2	04-AUG-2009	22:59:58.336
EGOI_090804SGEP8964.E2	04-AUG-2009	02:00:46.690

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74709	04-AUG-2009	06:37:19.702	06:39:13.885	114.18300
KS	74710	04-AUG-2009	08:16:36.625	08:19:08.488	151.86300
KS	74711	04-AUG-2009	09:56:14.071	09:58:48.095	154.02400
KS	74712	04-AUG-2009	11:35:45.444	11:38:23.197	157.75300
KS	74713	04-AUG-2009	13:14:53.003	13:17:25.300	152.29700
KS	74714	04-AUG-2009	14:53:31.290	14:56:09.398	158.10800
KS	74715	04-AUG-2009	16:31:09.096	16:33:47.487	158.39100

KS	74716	04-AUG-2009	18:08:58.100	18:11:45.088	166.98800
KS	74717	04-AUG-2009	19:47:55.183	19:50:07.681	132.49800
KS	74718	04-AUG-2009	21:28:38.602	21:30:44.293	125.69100
KS	74719	04-AUG-2009	23:11:51.264	23:13:38.914	107.65000
GS	74706	04-AUG-2009	01:18:14.766	01:20:13.447	118.68100
GS	74707	04-AUG-2009	02:55:33.867	02:57:42.541	128.67400
GS	74708	04-AUG-2009	04:37:46.986	04:39:43.158	116.17200
MS	74711	04-AUG-2009	10:11:18.487	10:13:58.685	160.19800
MS	74712	04-AUG-2009	11:48:38.213	11:51:18.778	160.56500
MS	74719	04-AUG-2009	22:57:55.166	22:59:58.335	123.16900
MA	74710	04-AUG-2009	08:25:36.265	08:28:13.043	156.77800
MA	74710	04-AUG-2009	08:29:43.053	08:37:12.750	449.69700
MA	74711	04-AUG-2009	10:04:17.073	10:06:22.641	125.56800
MA	74711	04-AUG-2009	10:06:42.142	10:17:17.262	635.12000
MA	74712	04-AUG-2009	11:45:54.589	11:47:39.756	105.16700
MA	74718	04-AUG-2009	21:20:18.113	21:23:02.246	164.13300
MI	74707	04-AUG-2009	02:51:12.201	02:53:45.514	153.31300
MI	74708	04-AUG-2009	04:31:19.732	04:34:01.127	161.39500
MI	74714	04-AUG-2009	15:11:26.342	15:13:50.002	143.66000
MI	74715	04-AUG-2009	16:50:41.974	16:53:07.104	145.13000
MM	74709	04-AUG-2009	07:24:26.598	07:25:33.663	67.065000
MM	74710	04-AUG-2009	09:04:57.565	09:06:22.277	84.712000
MM	74711	04-AUG-2009	10:45:09.318	10:46:42.387	93.069000
MM	74718	04-AUG-2009	22:22:08.274	22:24:08.617	120.34300
BE	74707	04-AUG-2009	03:21:37.644	03:24:15.697	158.05300

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	74705	04-AUG-2009	00:23:24.213	00:38:02.354	878.14100
MM	74705	04-AUG-2009	00:35:07.264	00:46:04.017	656.75300
BE	74706	04-AUG-2009	01:43:12.878	01:53:46.465	633.58700
HO	74706	04-AUG-2009	02:07:51.850	02:13:39.959	348.10900
MM	74706	04-AUG-2009	02:17:31.901	02:26:23.568	531.66700
SG	74707	04-AUG-2009	03:32:34.727	03:46:26.832	832.10500
CM	74707	04-AUG-2009	02:52:14.011	03:00:18.993	484.98200

CM	74707	04-AUG-2009	04:29:10.262	04:41:12.739	722.47700
JO	74709	04-AUG-2009	07:03:36.814	07:15:57.883	741.06900
JO	74710	04-AUG-2009	08:41:22.658	08:56:05.177	882.51900
MM	74712	04-AUG-2009	12:25:07.529	12:37:39.472	751.94300
HO	74713	04-AUG-2009	14:13:43.465	14:26:38.784	775.31900
MM	74713	04-AUG-2009	14:04:51.463	14:17:35.314	763.85100
SG	74713	04-AUG-2009	14:29:21.921	14:40:54.413	692.49200
BE	74714	04-AUG-2009	14:38:27.167	14:51:30.357	783.19000
MM	74714	04-AUG-2009	15:44:19.300	15:56:55.670	756.37000
GS	74714	04-AUG-2009	15:05:11.097	15:18:13.916	782.81900
SG	74714	04-AUG-2009	16:07:51.480	16:20:36.324	764.84400
CM	74714	04-AUG-2009	15:15:43.619	15:23:48.356	484.73700
MM	74715	04-AUG-2009	17:23:32.294	17:36:03.876	751.58200
GS	74715	04-AUG-2009	16:44:30.650	16:57:46.848	796.19800
CM	74715	04-AUG-2009	16:53:07.822	17:05:05.450	717.62800
MM	74716	04-AUG-2009	19:02:40.713	19:15:18.685	757.97200
JO	74716	04-AUG-2009	19:23:40.544	19:34:38.891	658.34700
MM	74717	04-AUG-2009	20:42:04.903	20:54:48.852	763.94900
MA	74717	04-AUG-2009	19:41:33.373	19:53:48.578	735.20500
JO	74717	04-AUG-2009	21:01:17.581	21:16:12.159	894.57800
HO	74718	04-AUG-2009	22:15:19.633	22:26:43.827	684.19400
JO	74718	04-AUG-2009	22:43:41.015	22:50:33.590	412.57500
HO	74719	04-AUG-2009	23:52:19.124	00:06:48.353	869.22900

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## 1.5 - List of corrupted products

Station	Orbit	Time
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## 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

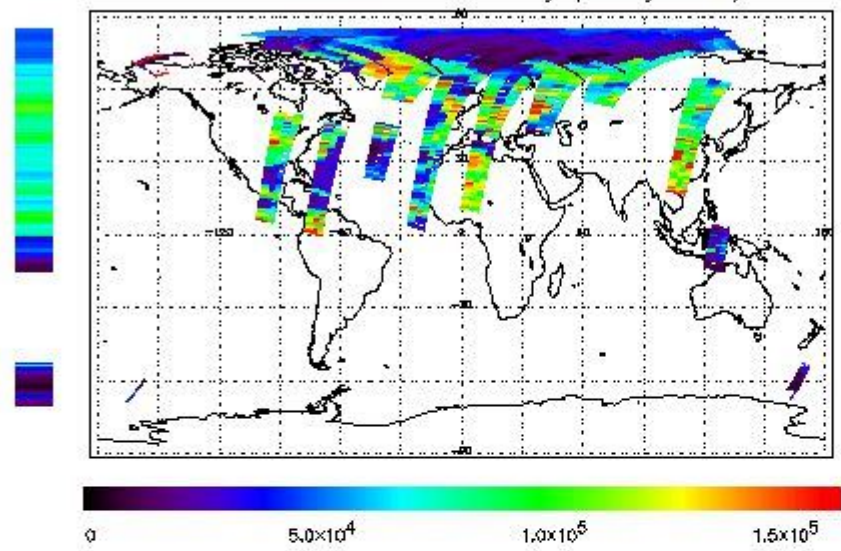
(1)

## 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

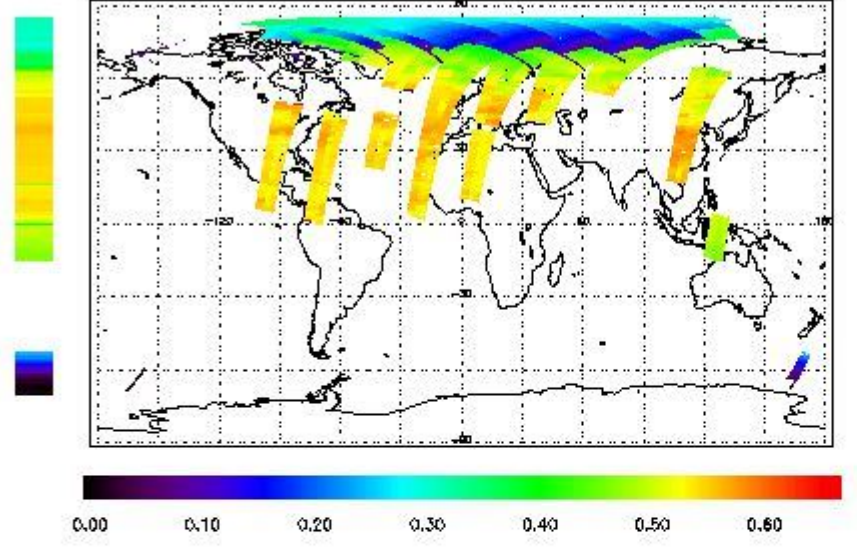
778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

First Product : 03-AUG-2008 23:46:47.385 : ORBIT : 74705.1684  
Last Product : 04-AUG-2008 23:24:16.480 : ORBIT : 74719.2589  
Total Products Processed : 18291 Day : 216

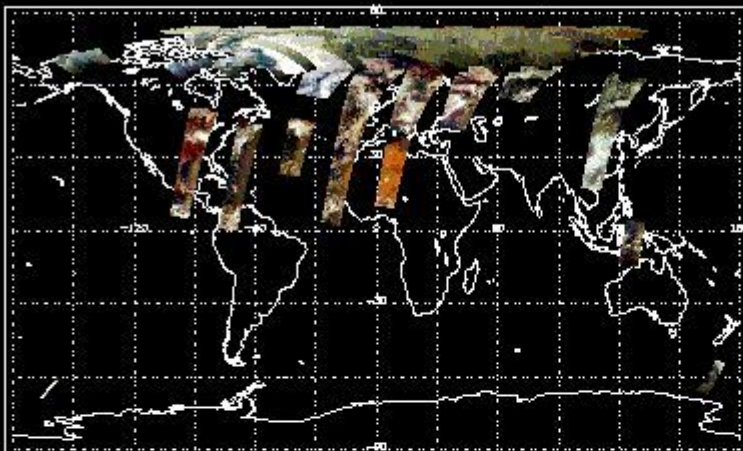
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)

First Product : 03-AUG-2009 23:46:47.385 : ORBIT : 74705.1684  
 Last Product : 04-AUG-2009 23:24:16.480 : ORBIT : 74719.2589  
 Total Products Processed : 18291 Day : 216 Page : 20

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	19:55:33	--	74717	Y	--	14804

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

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

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

(2)

#### 5.2 - TST44

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

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

(2)

#### 5.5 - Narrow Swath Timeline

Start Time	End Time	Start Orbit	End Orbit
21:30	--	74718	--

#### 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