

# GOME Daily Report

## INDEX

1. General Info
  - 1.1 Report Summary
  - 1.2 List of received products
  - 1.3 List of data gaps
  - 1.4 List of missing products
  - 1.5 List of corrupted products
2. Instrument Indicators and Daily Plots
  - 2.1 Instrument Indicators Status
  - 2.2 Daily Plots
3. Instrument Calibration
  - 3.1 Solar Calibration (daily/TST44)
  - 3.2 Lamp Calibration (quarterly/TST44)
4. Instrument Anomalies
  - 4.1 Single Event Upset (SEU)
  - 4.2 Instrument Off
  - 4.3 Cooler Switchings
5. Instrument Operations
  - 5.1 Timeline Interruptions
  - 5.2 TST44
  - 5.3 Power Cycle
  - 5.4 Wrong Command Execution
  - 5.5 Narrow Swath Timeline
  - 5.6 Seasonal Operations

## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	21-AUG-2009
Start Time of First Product	00:39:05
Stop Time of Last Product	23:34:56
Number of EGOI Products analysed	31
Number of corrupted products	1
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090821BEEP0487.E2	21-AUG-2009	02:50:12.830
EGOI_090821BEEP0493.E2	21-AUG-2009	04:30:31.439
EGOI_090821GSEP7113.E2	21-AUG-2009	02:23:51.670
EGOI_090821GSEP7142.E2	21-AUG-2009	04:04:46.283
EGOI_090821GSEP7149.E2	21-AUG-2009	05:46:43.899
EGOI_090821HLEP3258.E2	21-AUG-2009	12:05:20.694
EGOI_090821HLEP3267.E2	21-AUG-2009	13:44:27.297
EGOI_090821HLEP3276.E2	21-AUG-2009	15:25:50.411
EGOI_090821HLEP3283.E2	21-AUG-2009	21:49:01.738

EGOI_090821HLEP3291.E2	21-AUG-2009	23:23:15.808
EGOI_090821KSEP5703.E2	21-AUG-2009	07:44:35.614
EGOI_090821KSEP5728.E2	21-AUG-2009	09:24:39.217
EGOI_090821KSEP5763.E2	21-AUG-2009	11:04:15.826
EGOI_090821KSEP5790.E2	21-AUG-2009	12:43:34.428
EGOI_090821KSEP5802.E2	21-AUG-2009	14:22:27.528
EGOI_090821KSEP5821.E2	21-AUG-2009	16:00:13.118
EGOI_090821KSEP5851.E2	21-AUG-2009	17:38:10.713
EGOI_090821KSEP5887.E2	21-AUG-2009	19:16:08.307
EGOI_090821KSEP5922.E2	21-AUG-2009	20:55:56.918
EGOI_090821KSEP5948.E2	21-AUG-2009	22:38:05.032
EGOI_090821MAEP2987.E2	21-AUG-2009	09:32:13.768
EGOI_090821MAEP3006.E2	21-AUG-2009	11:12:05.369
EGOI_090821MAEP3022.E2	21-AUG-2009	22:30:27.485
EGOI_090821MIEP7233.E2	21-AUG-2009	02:20:59.154
EGOI_090821MIEP7260.E2	21-AUG-2009	03:59:23.748
EGOI_090821MIEP7282.E2	21-AUG-2009	14:41:12.637
EGOI_090821MIEP7310.E2	21-AUG-2009	16:18:41.727
EGOI_090821MSEP4536.E2	21-AUG-2009	00:39:04.540
EGOI_090821MSEP4554.E2	21-AUG-2009	11:17:21.900
EGOI_090821MSEP4580.E2	21-AUG-2009	12:57:33.007
EGOI_090821MSEP4607.E2	21-AUG-2009	22:26:45.470
EGOI_090821SGEP9058.E2	21-AUG-2009	13:59:43.821
EGOI_090821SGEP9066.E2	21-AUG-2009	15:35:57.903

[ [BACK TO MENU](#) ]

### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74953	21-AUG-2009	07:42:29.490	07:44:35.613	126.12300
KS	74954	21-AUG-2009	09:22:04.466	09:24:39.216	154.75000
KS	74955	21-AUG-2009	11:01:39.853	11:04:15.825	155.97200
KS	74956	21-AUG-2009	12:40:57.754	12:43:34.428	156.67400
KS	74957	21-AUG-2009	14:19:47.672	14:22:27.528	159.85600
KS	74958	21-AUG-2009	15:57:35.728	16:00:13.118	157.39000
KS	74959	21-AUG-2009	17:35:30.570	17:38:10.712	160.14200
KS	74960	21-AUG-2009	19:13:49.513	19:16:08.306	138.79300
KS	74961	21-AUG-2009	20:53:52.294	20:55:56.917	124.62300
KS	74962	21-AUG-2009	22:36:07.241	22:38:05.032	117.79100
GS	74951	21-AUG-2009	04:02:00.564	04:04:46.282	165.71800
MS	74949	21-AUG-2009	00:37:08.884	00:39:04.540	115.65600
MS	74955	21-AUG-2009	11:14:42.141	11:17:21.900	159.75900

MS	74956	21-AUG-2009	12:54:54.480	12:57:33.006	158.52600
MS	74962	21-AUG-2009	22:24:27.712	22:26:45.470	137.75800
MA	74954	21-AUG-2009	09:30:11.488	09:32:13.768	122.28000
MA	74955	21-AUG-2009	11:10:48.236	11:12:05.369	77.133000
MI	74950	21-AUG-2009	02:18:31.825	02:20:59.153	147.32800
MI	74951	21-AUG-2009	03:56:11.598	03:59:23.747	192.14900
MI	74957	21-AUG-2009	14:38:51.734	14:41:12.636	140.90200
MI	74958	21-AUG-2009	16:16:10.091	16:18:41.726	151.63500
BE	74951	21-AUG-2009	04:27:45.140	04:30:31.439	166.29900
SG	74957	21-AUG-2009	15:33:19.210	15:35:57.903	158.69300

[ [BACK TO MENU](#) ]

#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	74948	20-AUG-2009	23:49:30.004	00:03:57.669	867.66500
MM	74948	21-AUG-2009	00:00:14.940	00:11:43.832	688.89200
HO	74949	21-AUG-2009	01:30:34.561	01:42:23.040	708.47900
MM	74949	21-AUG-2009	01:42:18.687	01:51:57.639	578.95200
GS	74949	21-AUG-2009	00:46:04.001	00:54:31.449	507.44800
MM	74950	21-AUG-2009	03:25:14.751	03:32:32.465	437.71400
SG	74950	21-AUG-2009	02:58:50.905	03:12:12.088	801.18300
CM	74950	21-AUG-2009	03:54:59.373	04:07:20.820	741.44700
MM	74951	21-AUG-2009	05:08:09.537	05:13:56.964	347.42700
SG	74951	21-AUG-2009	04:39:30.710	04:49:41.103	610.39300
MM	74952	21-AUG-2009	06:49:50.803	06:56:40.284	409.48100
KS	74952	21-AUG-2009	06:03:42.191	06:09:09.292	327.10100
CM	74952	21-AUG-2009	05:38:35.531	05:42:40.505	244.97400
JO	74952	21-AUG-2009	06:31:59.940	06:40:22.494	502.55400
MM	74953	21-AUG-2009	08:30:32.649	08:39:42.280	549.63100
MA	74953	21-AUG-2009	07:52:55.987	07:59:48.143	412.15600
JO	74953	21-AUG-2009	08:07:10.616	08:22:10.392	899.77600
MM	74954	21-AUG-2009	10:10:49.738	10:21:59.203	669.46500
JO	74954	21-AUG-2009	09:49:22.539	09:59:18.317	595.77800
MM	74955	21-AUG-2009	11:50:52.514	12:03:11.825	739.31100
MM	74956	21-AUG-2009	13:30:41.559	13:43:24.721	763.16200
BE	74957	21-AUG-2009	14:04:08.721	14:17:33.418	804.69700

MM	74957	21-AUG-2009	15:10:15.060	15:22:54.658	759.59800
GS	74957	21-AUG-2009	14:31:40.461	14:42:40.358	659.89700
BE	74958	21-AUG-2009	15:46:27.010	15:55:15.533	528.52300
MM	74958	21-AUG-2009	16:49:32.524	17:02:04.492	751.96800
GS	74958	21-AUG-2009	16:10:16.275	16:24:09.135	832.86000
CM	74958	21-AUG-2009	16:18:56.552	16:31:19.789	743.23700
MM	74959	21-AUG-2009	18:28:40.680	18:41:15.549	754.86900
GS	74959	21-AUG-2009	17:50:41.612	18:00:43.193	601.58100
CM	74959	21-AUG-2009	18:01:33.961	18:06:10.702	276.74100
MM	74960	21-AUG-2009	20:07:56.760	20:20:40.041	763.28100
MA	74960	21-AUG-2009	19:11:09.645	19:18:51.432	461.78700
JO	74960	21-AUG-2009	20:27:16.996	20:42:09.369	892.37300
MM	74961	21-AUG-2009	21:47:44.266	22:00:21.005	756.73900
MA	74961	21-AUG-2009	20:45:44.016	20:59:26.700	822.68400
JO	74961	21-AUG-2009	22:07:43.402	22:19:24.480	701.07800
MM	74962	21-AUG-2009	23:28:23.816	23:40:16.714	712.89800

[ [BACK TO MENU](#) ]

## 1.5 - List of corrupted products

Station	Orbit	Time
GS	74952	05:57:92.965

## 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

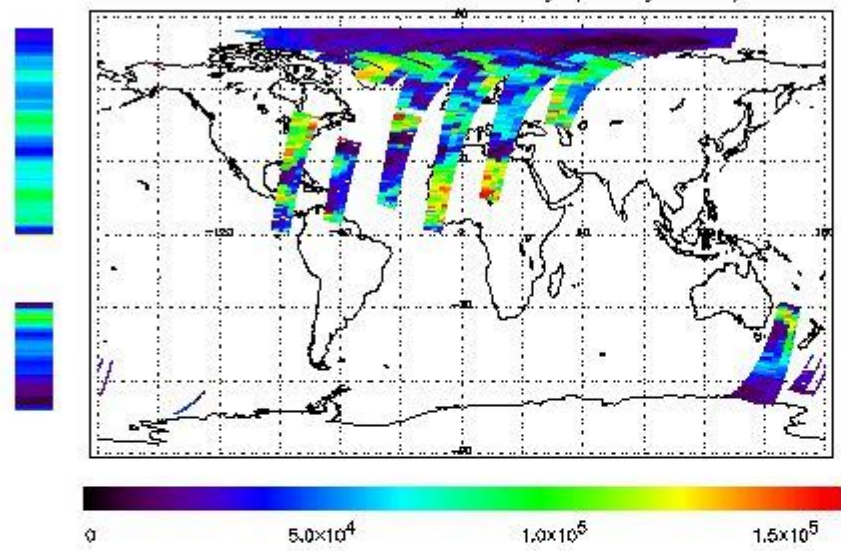
First Product : 21-AUG-2008 00:39:04.540 : ORBIT : 74949.0310

Last Product : 21-AUG-2008 23:34:56.382 : ORBIT : 74962.7078

Total Products Processed : 14692 Day : 233

Page : 21

778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

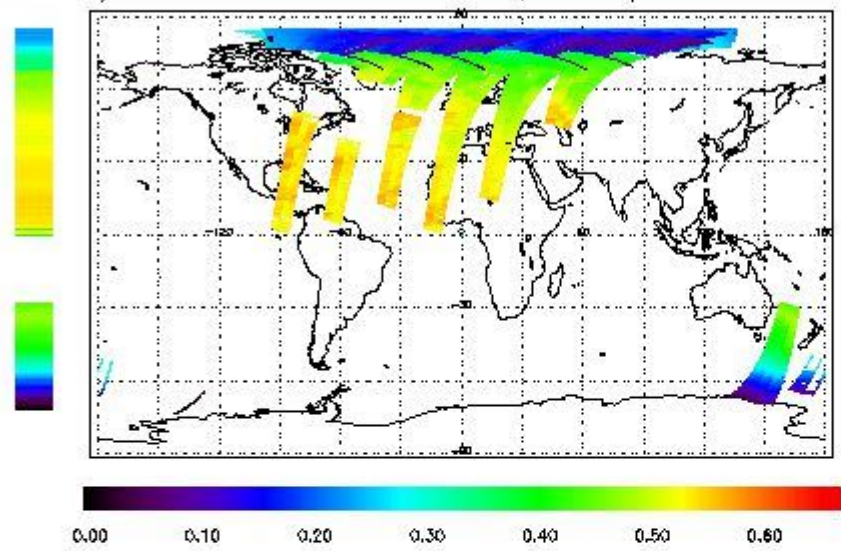
First Product : 21-AUG-2008 00:39:04.540 : ORBIT : 74949.0310

Last Product : 21-AUG-2008 23:34:56.382 : ORBIT : 74962.7078

Total Products Processed : 14592 Day : 233

Page : 20

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	17:42:01.730	--	74959	Y	--	14892

(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)

[ BACK TO MENU ]

### 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)

[ BACK TO MENU ]

### 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
--	--	--	--

#### 5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
--	--	--	--

[ [BACK TO MENU](#) ]

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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