

# 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	16-SEP-2009
Start Time of First Product	23:44:47 (15-Sep)
Stop Time of Last Product	23:25:54
Number of EGOI Products analysed	37
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090916BEEP0705.E2	16-SEP-2009	02:33:19.382
EGOI_090916GSEP8902.E2	16-SEP-2009	02:06:52.222
EGOI_090916GSEP8929.E2	16-SEP-2009	03:46:27.331
EGOI_090916GSEP8939.E2	16-SEP-2009	05:29:23.456
EGOI_090916KSEP2402.E2	16-SEP-2009	07:27:31.671
EGOI_090916KSEP2426.E2	16-SEP-2009	09:07:33.777
EGOI_090916KSEP2451.E2	16-SEP-2009	10:47:13.382
EGOI_090916KSEP2479.E2	16-SEP-2009	12:26:34.988

EGOI_090916KSEP2498.E2	16-SEP-2009	14:05:31.094
EGOI_090916KSEP2527.E2	16-SEP-2009	15:43:33.192
EGOI_090916KSEP2559.E2	16-SEP-2009	17:21:20.291
EGOI_090916KSEP2588.E2	16-SEP-2009	18:59:11.882
EGOI_090916KSEP2622.E2	16-SEP-2009	20:38:37.985
EGOI_090916KSEP2653.E2	16-SEP-2009	22:20:29.607
EGOI_090916MAEP3901.E2	16-SEP-2009	09:14:56.320
EGOI_090916MAEP3910.E2	16-SEP-2009	10:54:44.925
EGOI_090916MAEP3921.E2	16-SEP-2009	18:59:13.382
EGOI_090916MAEP3940.E2	16-SEP-2009	22:12:35.557
EGOI_090916MIEP9284.E2	16-SEP-2009	02:05:02.714
EGOI_090916MIEP9306.E2	16-SEP-2009	03:41:51.304
EGOI_090916MIEP9326.E2	16-SEP-2009	14:25:41.715
EGOI_090916MIEP9344.E2	16-SEP-2009	16:01:33.298
EGOI_090916MMEP8347.E2	15-SEP-2009	23:44:46.857
EGOI_090916MMEP8355.E2	16-SEP-2009	01:26:11.476
EGOI_090916MMEP8362.E2	16-SEP-2009	03:08:42.097
EGOI_090916MMEP8370.E2	16-SEP-2009	04:51:23.222
EGOI_090916MMEP8383.E2	16-SEP-2009	16:34:19.997
EGOI_090916MMEP8390.E2	16-SEP-2009	18:14:34.107
EGOI_090916MMEP8397.E2	16-SEP-2009	21:33:11.317
EGOI_090916MMEP8405.E2	16-SEP-2009	23:12:47.925
EGOI_090916MSEP7375.E2	16-SEP-2009	00:21:54.585
EGOI_090916MSEP7398.E2	16-SEP-2009	11:00:26.960
EGOI_090916MSEP7425.E2	16-SEP-2009	12:39:57.566
EGOI_090916MSEP7454.E2	16-SEP-2009	22:10:20.545
EGOI_090916SGEP9765.E2	16-SEP-2009	02:44:55.452
EGOI_090916SGEP9772.E2	16-SEP-2009	04:23:54.554
EGOI_090916SGEP9781.E2	16-SEP-2009	17:01:51.665

[ [BACK TO MENU](#) ]

### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75325	16-SEP-2009	07:25:27.156	07:27:31.671	124.51500
KS	75326	16-SEP-2009	09:04:59.598	09:07:33.776	154.17800
KS	75327	16-SEP-2009	10:44:36.256	10:47:13.381	157.12500
KS	75328	16-SEP-2009	12:23:58.450	12:26:34.987	156.53700
KS	75329	16-SEP-2009	14:02:51.921	14:05:31.093	159.17200
KS	75330	16-SEP-2009	15:40:50.683	15:43:33.191	162.50800
KS	75331	16-SEP-2009	17:18:41.011	17:21:20.290	159.27900
KS	75332	16-SEP-2009	18:56:50.915	18:59:11.881	140.96600
KS	75333	16-SEP-2009	20:36:34.999	20:38:37.985	122.98600

KS	75334	16-SEP-2009	22:18:24.062	22:20:29.606	125.54400
GS	75322	16-SEP-2009	02:04:57.404	02:06:52.221	114.81700
GS	75323	16-SEP-2009	03:44:27.245	03:46:27.331	120.08600
MS	75321	16-SEP-2009	00:18:57.895	00:21:54.584	176.68900
MS	75327	16-SEP-2009	10:57:45.878	11:00:26.960	161.08200
MS	75328	16-SEP-2009	12:37:22.159	12:39:57.565	155.40600
MS	75334	16-SEP-2009	22:08:02.038	22:10:20.545	138.50700
MA	75326	16-SEP-2009	09:13:33.778	09:14:56.320	82.542000
MA	75327	16-SEP-2009	10:52:48.328	10:54:44.924	116.59600
MA	75332	16-SEP-2009	18:55:53.079	18:59:13.381	200.30200
MA	75334	16-SEP-2009	22:11:22.161	22:12:35.557	73.396000
MI	75322	16-SEP-2009	02:02:41.703	02:05:02.713	141.01000
MI	75323	16-SEP-2009	03:38:58.144	03:41:51.304	173.16000
MI	75329	16-SEP-2009	14:23:33.683	14:25:41.714	128.03100
MI	75330	16-SEP-2009	15:59:05.584	16:01:33.298	147.71400
MM	75321	16-SEP-2009	01:24:44.460	01:26:11.476	87.016000
MM	75322	16-SEP-2009	03:07:33.914	03:08:42.096	68.182000
MM	75330	16-SEP-2009	16:32:32.229	16:34:19.996	107.76700
MM	75331	16-SEP-2009	18:11:41.038	18:14:34.107	173.06900
MM	75333	16-SEP-2009	21:30:34.624	21:33:11.316	156.69200
MM	75334	16-SEP-2009	23:11:04.103	23:12:47.925	103.82200
BE	75322	16-SEP-2009	02:30:36.244	02:33:19.381	163.13700
SG	75322	16-SEP-2009	02:42:17.749	02:44:55.452	157.70300
SG	75323	16-SEP-2009	04:21:40.694	04:23:54.554	133.86000
SG	75330	16-SEP-2009	16:58:57.584	17:01:51.665	174.08100

[ [BACK TO MENU](#) ]

#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75321	16-SEP-2009	01:12:47.823	01:25:45.764	777.94100
CM	75322	16-SEP-2009	03:38:13.232	03:50:10.138	716.90600
BE	75323	16-SEP-2009	04:10:23.041	04:22:02.092	699.05100
MM	75324	16-SEP-2009	06:32:30.465	06:38:59.872	389.40700
CM	75324	16-SEP-2009	05:19:28.210	05:27:36.148	487.93800
MM	75325	16-SEP-2009	08:13:19.236	08:22:04.630	525.39400
JO	75325	16-SEP-2009	07:50:19.780	08:05:03.669	883.88900

MM	75326	16-SEP-2009	09:53:39.355	10:04:31.590	652.23500
JO	75326	16-SEP-2009	09:31:11.498	09:43:10.586	719.08800
MM	75327	16-SEP-2009	11:33:44.408	11:45:55.365	730.95700
MM	75328	16-SEP-2009	13:13:35.910	13:26:17.561	761.65100
HO	75329	16-SEP-2009	15:03:00.414	15:11:56.322	535.90800
MM	75329	16-SEP-2009	14:53:12.213	15:05:53.333	761.12000
GS	75329	16-SEP-2009	14:15:08.985	14:24:51.346	582.36100
SG	75329	16-SEP-2009	15:16:20.328	15:30:09.959	829.63100
BE	75330	16-SEP-2009	15:28:18.718	15:38:54.296	635.57800
GS	75330	16-SEP-2009	15:53:13.015	16:07:08.895	835.88000
CM	75330	16-SEP-2009	16:02:05.822	16:14:07.638	721.81600
MI	75331	16-SEP-2009	17:41:07.337	17:47:37.793	390.45600
GS	75331	16-SEP-2009	17:33:20.232	17:44:31.054	670.82200
CM	75331	16-SEP-2009	17:42:57.962	17:51:05.910	487.94800
MM	75332	16-SEP-2009	19:50:54.144	20:03:36.378	762.23400
JO	75332	16-SEP-2009	20:10:26.760	20:24:52.330	865.57000
MA	75333	16-SEP-2009	20:28:47.807	20:42:32.301	824.49400
JO	75333	16-SEP-2009	21:50:11.970	22:03:13.769	781.79900
HO	75334	16-SEP-2009	23:01:58.888	23:15:29.544	810.65600
MS	75335	16-SEP-2009	23:46:33.575	23:59:20.391	766.81600

[\[ BACK TO MENU \]](#)

## 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	South Polar View operations
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

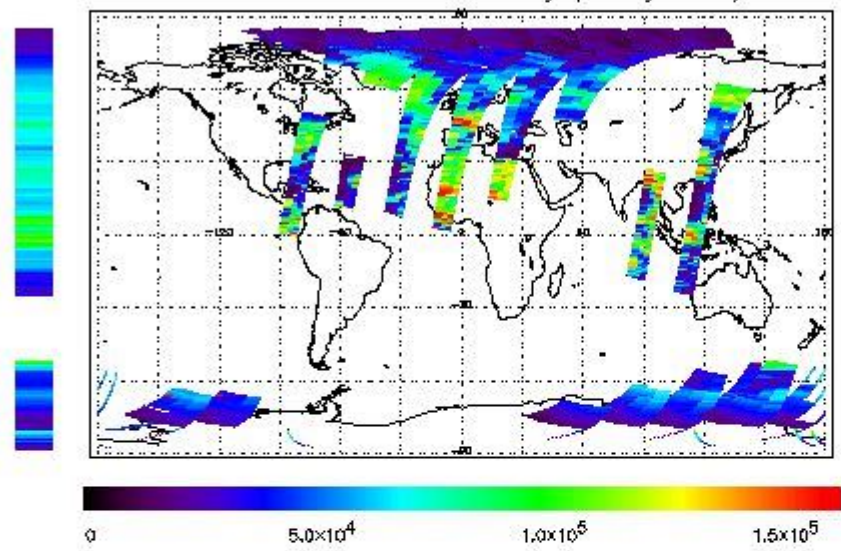
(1)

## 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

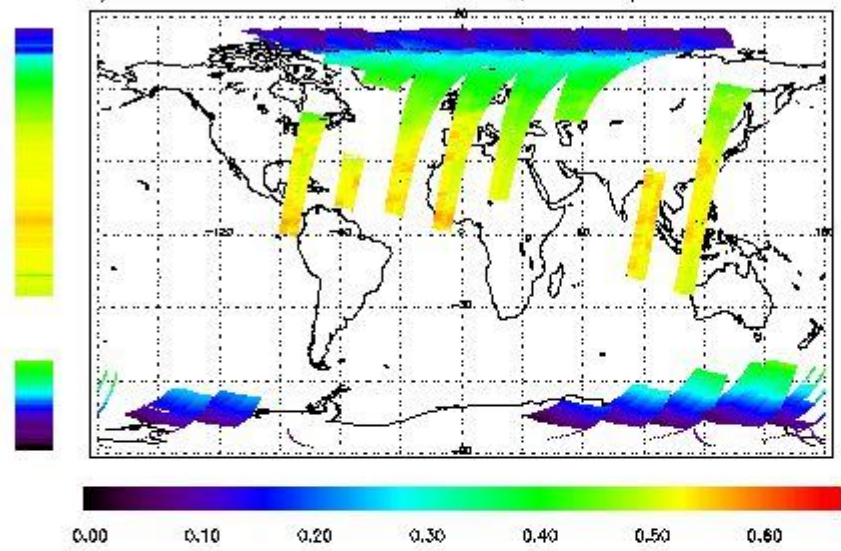
First Product : 15-SEP-2009 23:44:46.857 : ORBIT : 75320.6627

Last Product : 16-SEP-2009 23:25:54.007 : ORBIT : 75334.7893

Total Products Processed : 17738 Day : 259

Page : 20

331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed

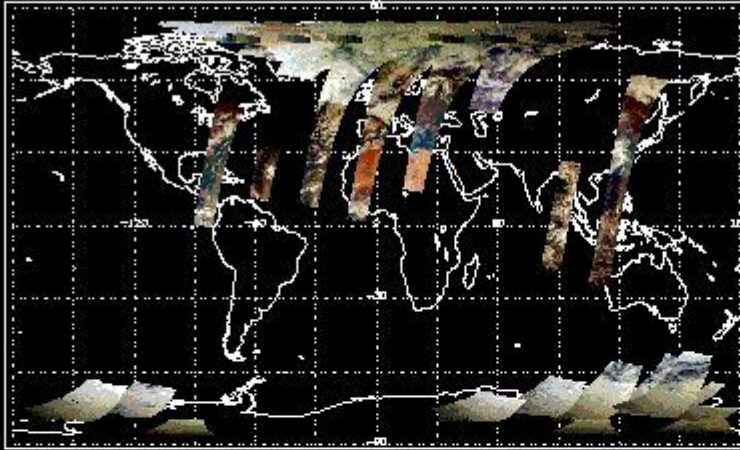


PMD Image (Earthshine Radiance)



First Product : 15-SEP-2009 23:44:46.857 : ORBIT : 75320.6627  
 Last Product : 16-SEP-2009 23:25:54.007 : ORBIT : 75334.7893  
 Total Products Processed : 17738 Day : 259 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	17:27:44.320	--	75331	Y	--	15069

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

(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
--	--	--	--

### 5.6 - Seasonal Operations

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

01:00 05-Sep	--	75164	--
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[ [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