

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	28-AUG-2009
Start Time of First Product	00:18:32
Stop Time of Last Product	23:14:52
Number of EGOI Products analysed	36
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090828BEEP0543.E2	28-AUG-2009	02:30:31.107
EGOI_090828BEEP0549.E2	28-AUG-2009	04:10:07.704
EGOI_090828GSEP7577.E2	28-AUG-2009	02:04:06.943
EGOI_090828GSEP7608.E2	28-AUG-2009	03:43:30.044
EGOI_090828GSEP7617.E2	28-AUG-2009	05:26:21.665
EGOI_090828HLEP3510.E2	28-AUG-2009	01:18:51.673
EGOI_090828HLEP3517.E2	28-AUG-2009	13:24:26.067
EGOI_090828HLEP3526.E2	28-AUG-2009	15:05:13.180
EGOI_090828HLEP3533.E2	28-AUG-2009	23:03:55.079

EGOI_090828KSEP7592.E2	28-AUG-2009	07:24:37.383
EGOI_090828KSEP7615.E2	28-AUG-2009	09:04:42.490
EGOI_090828KSEP7644.E2	28-AUG-2009	10:44:22.096
EGOI_090828KSEP7672.E2	28-AUG-2009	12:23:43.699
EGOI_090828KSEP7691.E2	28-AUG-2009	14:02:42.801
EGOI_090828KSEP7704.E2	28-AUG-2009	15:40:38.896
EGOI_090828KSEP7734.E2	28-AUG-2009	17:18:31.991
EGOI_090828KSEP7760.E2	28-AUG-2009	18:56:23.582
EGOI_090828KSEP7794.E2	28-AUG-2009	20:35:49.688
EGOI_090828KSEP7825.E2	28-AUG-2009	22:17:36.802
EGOI_090828MAEP3217.E2	28-AUG-2009	09:12:30.540
EGOI_090828MAEP3228.E2	28-AUG-2009	10:51:56.639
EGOI_090828MAEP3234.E2	28-AUG-2009	18:56:23.582
EGOI_090828MIEP7857.E2	28-AUG-2009	02:02:27.935
EGOI_090828MIEP7885.E2	28-AUG-2009	03:39:33.021
EGOI_090828MIEP7901.E2	28-AUG-2009	05:23:45.650
EGOI_090828MIEP7918.E2	28-AUG-2009	14:23:12.926
EGOI_090828MIEP7927.E2	28-AUG-2009	15:58:40.501
EGOI_090828MIEP7947.E2	28-AUG-2009	17:40:23.120
EGOI_090828MSEP5307.E2	28-AUG-2009	00:18:31.801
EGOI_090828MSEP5326.E2	28-AUG-2009	10:57:38.674
EGOI_090828MSEP5354.E2	28-AUG-2009	12:37:04.781
EGOI_090828MSEP5386.E2	28-AUG-2009	22:07:29.239
EGOI_090828SGEP9254.E2	28-AUG-2009	02:45:26.697
EGOI_090828SGEP9262.E2	28-AUG-2009	04:23:33.286
EGOI_090828SGEP9270.E2	28-AUG-2009	15:15:59.742
EGOI_090828SGEP9278.E2	28-AUG-2009	16:58:21.366

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75053	28-AUG-2009	07:22:36.880	07:24:37.382	120.50200
KS	75054	28-AUG-2009	09:02:08.792	09:04:42.489	153.69700
KS	75055	28-AUG-2009	10:41:45.614	10:44:22.096	156.48200
KS	75056	28-AUG-2009	12:21:08.466	12:23:43.698	155.23200
KS	75057	28-AUG-2009	14:00:02.226	14:02:42.800	160.57400
KS	75058	28-AUG-2009	15:38:03.114	15:40:38.896	155.78200
KS	75059	28-AUG-2009	17:15:52.303	17:18:31.990	159.68700
KS	75060	28-AUG-2009	18:54:01.404	18:56:23.581	142.17700
KS	75061	28-AUG-2009	20:33:42.476	20:35:49.688	127.21200
KS	75062	28-AUG-2009	22:15:27.380	22:17:36.801	129.42100
GS	75050	28-AUG-2009	02:02:10.722	02:04:06.943	116.22100

GS	75051	28-AUG-2009	03:41:32.708	03:43:30.043	117.33500
MS	75049	28-AUG-2009	00:15:58.649	00:18:31.800	153.15100
MS	75055	28-AUG-2009	10:55:03.358	10:57:38.673	155.31500
MS	75056	28-AUG-2009	12:34:29.072	12:37:04.780	155.70800
MS	75062	28-AUG-2009	22:05:19.133	22:07:29.238	130.10500
MS	75063	28-AUG-2009	23:43:39.328	23:46:05.837	146.50900
MA	75054	28-AUG-2009	09:11:10.086	09:12:30.539	80.453000
MA	75055	28-AUG-2009	10:49:55.175	10:51:56.638	121.46300
MA	75060	28-AUG-2009	18:53:07.926	18:56:23.581	195.65500
MI	75050	28-AUG-2009	02:00:06.474	02:02:27.935	141.46100
MI	75051	28-AUG-2009	03:36:07.041	03:39:33.021	205.98000
MI	75057	28-AUG-2009	14:21:14.637	14:23:12.926	118.28900
MI	75058	28-AUG-2009	15:56:15.540	15:58:40.500	144.96000
MI	75059	28-AUG-2009	17:38:02.794	17:40:23.119	140.32500
BE	75050	28-AUG-2009	02:27:47.389	02:30:31.107	163.71800
BE	75051	28-AUG-2009	04:07:29.939	04:10:07.703	157.76400
SG	75050	28-AUG-2009	02:39:33.718	02:45:26.697	352.97900
SG	75051	28-AUG-2009	04:18:44.345	04:23:33.286	288.94100
SG	75057	28-AUG-2009	15:13:31.604	15:15:59.741	148.13700
SG	75058	28-AUG-2009	16:55:47.668	16:58:21.365	153.69700

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	75049	28-AUG-2009	01:21:48.923	01:31:53.599	604.67600
MM	75050	28-AUG-2009	03:04:37.146	03:12:22.927	465.78100
CM	75050	28-AUG-2009	03:35:26.861	03:47:17.370	710.50900
MM	75051	28-AUG-2009	04:47:38.912	04:53:33.724	354.81200
MM	75052	28-AUG-2009	06:29:36.889	06:36:03.218	386.32900
CM	75052	28-AUG-2009	05:16:24.640	05:24:57.969	513.32900
MM	75053	28-AUG-2009	08:10:26.929	08:19:08.229	521.30000
JO	75053	28-AUG-2009	07:47:32.306	08:02:11.956	879.65000
MM	75054	28-AUG-2009	09:50:47.584	10:01:36.801	649.21700
JO	75054	28-AUG-2009	09:28:12.123	09:40:27.174	735.05100
MM	75055	28-AUG-2009	11:30:53.019	11:43:02.444	729.42500
MM	75056	28-AUG-2009	13:10:44.925	13:23:26.236	761.31100

MM	75057	28-AUG-2009	14:50:21.690	15:03:03.046	761.35600
GS	75057	28-AUG-2009	14:12:25.204	14:21:48.930	563.72600
BE	75058	28-AUG-2009	15:25:19.499	15:36:09.118	649.61900
MM	75058	28-AUG-2009	16:29:42.147	16:42:15.011	752.86400
GS	75058	28-AUG-2009	15:50:22.743	16:04:18.104	835.36100
CM	75058	28-AUG-2009	15:59:18.440	16:11:14.283	715.84300
MM	75059	28-AUG-2009	18:08:51.112	18:21:24.502	753.39000
GS	75059	28-AUG-2009	17:30:27.135	17:41:48.041	680.90600
CM	75059	28-AUG-2009	17:39:57.494	17:48:29.081	511.58700
MM	75060	28-AUG-2009	19:48:03.790	20:00:45.816	762.02600
JO	75060	28-AUG-2009	20:07:39.147	20:21:58.384	859.23700
MM	75061	28-AUG-2009	21:27:43.162	21:40:23.553	760.39100
MA	75061	28-AUG-2009	20:25:59.226	20:39:45.062	825.83600
JO	75061	28-AUG-2009	21:47:17.714	22:00:30.487	792.77300
MM	75062	28-AUG-2009	23:08:11.001	23:20:16.490	725.48900
MA	75062	28-AUG-2009	22:08:21.725	22:18:10.474	588.74900

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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 Temperatures 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

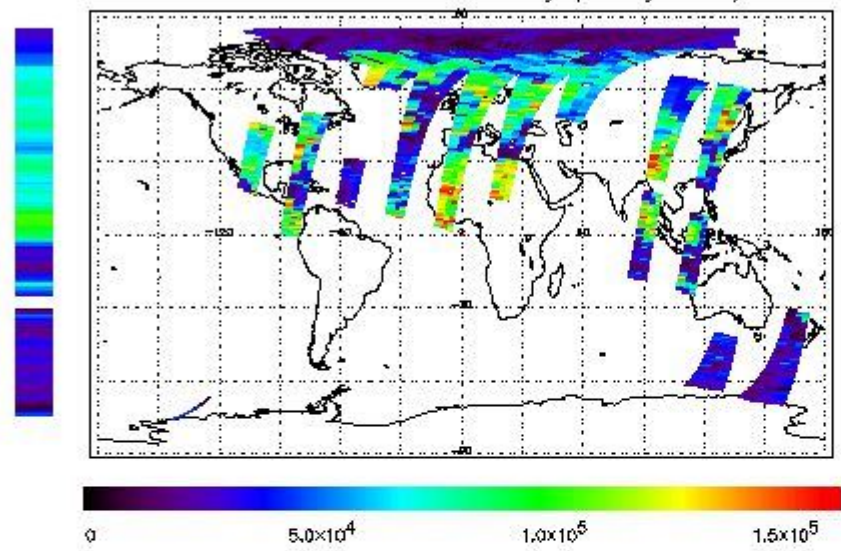
First Product : 28-AUG-2008 00:18:31.801 : ORBIT : 75049.0268

Last Product : 28-AUG-2008 23:14:52.153 : ORBIT : 75062.7083

Total Products Processed : 18188 Day : 240

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778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

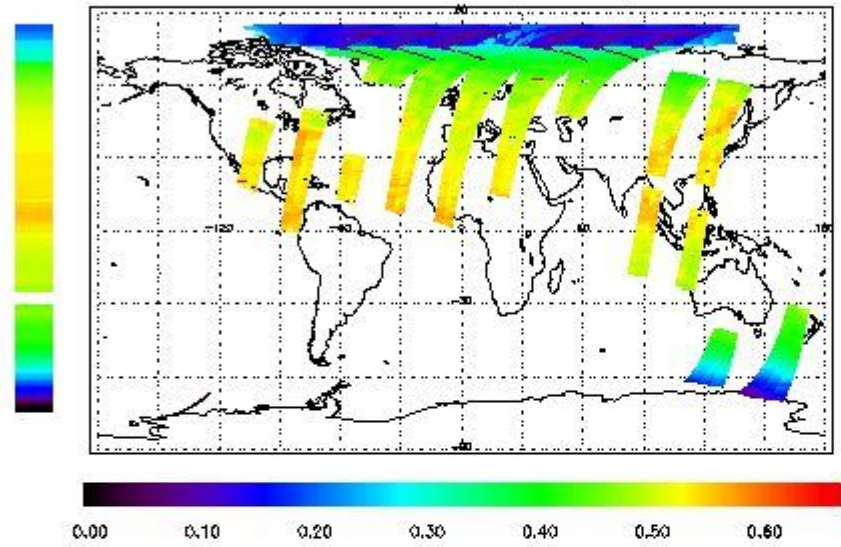
First Product : 28-AUG-2008 00:18:31.801 : ORBIT : 75049.0268

Last Product : 28-AUG-2008 23:14:52.153 : ORBIT : 75062.7083

Total Products Processed : 18188 Day : 240

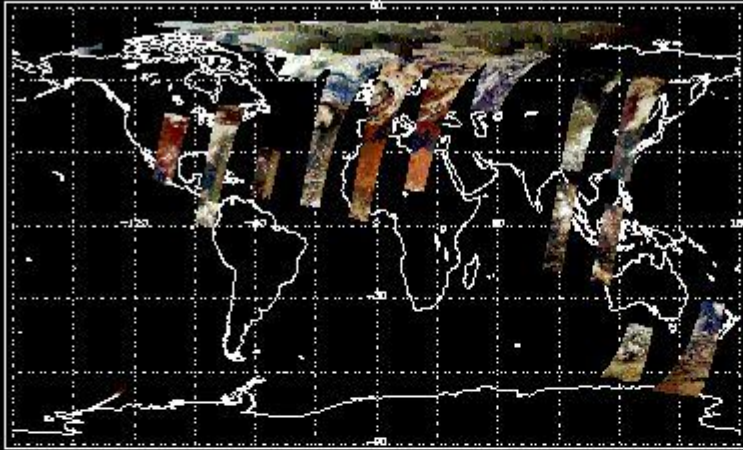
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331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



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	17:22:38.010	--	75059	Y	--	14936

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

(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)
--	--	--

(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
--	--	--	--

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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