

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	01-SEP-2009
Start Time of First Product	23:51:49 (31-AUG-2009)
Stop Time of Last Product	23:44:11
Number of EGOI Products analysed	32
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

### 1.2 - List of received products

Name	Date	Time
EGOI_090901BEEP0593.E2	01-SEP-2009	02:05:23.883
EGOI_090901BEEP0601.E2	01-SEP-2009	03:44:25.985
EGOI_090901GSEP7850.E2	01-SEP-2009	01:39:13.227
EGOI_090901GSEP7879.E2	01-SEP-2009	03:17:34.824
EGOI_090901GSEP7888.E2	01-SEP-2009	05:00:41.449
EGOI_090901HLEP3658.E2	01-SEP-2009	00:54:42.956
EGOI_090901HLEP3664.E2	01-SEP-2009	11:21:13.756
EGOI_090901HLEP3672.E2	01-SEP-2009	12:58:51.846
EGOI_090901HLEP3680.E2	01-SEP-2009	14:39:02.957

EGOI_090901HLEP3688.E2	01-SEP-2009	22:39:17.867
EGOI_090901KSEP8641.E2	01-SEP-2009	06:59:00.167
EGOI_090901KSEP8662.E2	01-SEP-2009	08:39:05.269
EGOI_090901KSEP8688.E2	01-SEP-2009	10:18:44.876
EGOI_090901KSEP8714.E2	01-SEP-2009	11:58:16.983
EGOI_090901KSEP8734.E2	01-SEP-2009	13:37:13.080
EGOI_090901KSEP8762.E2	01-SEP-2009	15:15:52.680
EGOI_090901KSEP8778.E2	01-SEP-2009	16:53:20.270
EGOI_090901KSEP8812.E2	01-SEP-2009	18:31:13.369
EGOI_090901KSEP8836.E2	01-SEP-2009	20:10:03.463
EGOI_090901KSEP8866.E2	01-SEP-2009	21:51:08.578
EGOI_090901KSEP8883.E2	01-SEP-2009	23:34:39.204
EGOI_090901MAEP3349.E2	01-SEP-2009	08:47:27.824
EGOI_090901MAEP3360.E2	01-SEP-2009	10:26:11.919
EGOI_090901MAEP3371.E2	01-SEP-2009	20:04:24.428
EGOI_090901MMEP7762.E2	01-SEP-2009	00:57:02.459
EGOI_090901MSEP5767.E2	31-AUG-2009	23:51:48.573
EGOI_090901MSEP5787.E2	01-SEP-2009	10:33:02.962
EGOI_090901MSEP5816.E2	01-SEP-2009	12:11:18.557
EGOI_090901MSEP5843.E2	01-SEP-2009	21:43:14.531
EGOI_090901MSEP5875.E2	01-SEP-2009	23:20:06.122
EGOI_090901SGEP9334.E2	01-SEP-2009	14:53:07.543
EGOI_090901SGEP9342.E2	01-SEP-2009	16:31:15.641

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75110	01-SEP-2009	06:57:06.400	06:59:00.167	113.76700
KS	75111	01-SEP-2009	08:36:31.719	08:39:05.268	153.54900
KS	75112	01-SEP-2009	10:16:09.374	10:18:44.875	155.50100
KS	75113	01-SEP-2009	11:55:37.482	11:58:16.983	159.50100
KS	75114	01-SEP-2009	13:34:37.911	13:37:13.080	155.16900
KS	75115	01-SEP-2009	15:12:59.914	15:15:52.680	172.76600
KS	75116	01-SEP-2009	16:50:36.956	16:53:20.269	163.31300
KS	75117	01-SEP-2009	18:28:38.847	18:31:13.369	154.52200
KS	75118	01-SEP-2009	20:07:54.183	20:10:03.463	129.28000
KS	75119	01-SEP-2009	21:49:03.396	21:51:08.578	125.18200
KS	75120	01-SEP-2009	23:32:55.203	23:34:39.203	104.00000
GS	75107	01-SEP-2009	01:37:20.529	01:39:13.227	112.69800
GS	75108	01-SEP-2009	03:15:33.457	03:17:34.824	121.36700
MS	75106	31-AUG-2009	23:49:28.186	23:51:48.573	140.38700

MS	75112	01-SEP-2009	10:30:22.544	10:33:02.962	160.41800
MS	75113	01-SEP-2009	12:08:38.371	12:11:18.556	160.18500
MS	75120	01-SEP-2009	23:17:46.112	23:20:06.121	140.00900
MA	75111	01-SEP-2009	08:45:29.591	08:47:27.824	118.23300
MA	75112	01-SEP-2009	10:24:11.880	10:26:11.919	120.03900
MA	75118	01-SEP-2009	20:00:52.234	20:04:24.428	212.19400
MM	75106	01-SEP-2009	00:55:31.354	00:57:02.459	91.105000
BE	75107	01-SEP-2009	02:02:35.519	02:05:23.883	168.36400
BE	75108	01-SEP-2009	03:41:38.071	03:44:25.984	167.91300
SG	75114	01-SEP-2009	14:48:28.301	14:53:07.542	279.24100
SG	75115	01-SEP-2009	16:28:26.543	16:31:15.640	169.09700

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75106	01-SEP-2009	00:06:32.955	00:11:21.466	288.51100
MM	75107	01-SEP-2009	02:38:07.093	02:46:30.007	502.91400
SG	75107	01-SEP-2009	02:15:24.255	02:25:04.206	579.95100
MM	75108	01-SEP-2009	04:21:12.490	04:27:26.171	373.68100
MI	75108	01-SEP-2009	03:10:41.159	03:23:54.022	792.86300
SG	75108	01-SEP-2009	03:52:35.741	04:06:04.530	808.78900
CM	75108	01-SEP-2009	03:10:49.351	03:21:07.357	618.00600
CM	75108	01-SEP-2009	04:49:32.420	05:00:37.132	664.71200
MM	75109	01-SEP-2009	06:03:31.975	06:09:34.945	362.97000
MI	75109	01-SEP-2009	04:52:27.528	05:01:14.092	526.56400
MM	75110	01-SEP-2009	07:44:35.106	07:52:39.253	484.14700
JO	75110	01-SEP-2009	07:22:38.810	07:36:18.342	819.53200
MM	75111	01-SEP-2009	09:25:01.104	09:35:21.340	620.23600
JO	75111	01-SEP-2009	09:01:39.753	09:15:38.794	839.04100
MM	75112	01-SEP-2009	11:05:10.027	11:17:03.826	713.79900
MM	75113	01-SEP-2009	12:45:05.517	12:57:42.522	757.00500
MM	75114	01-SEP-2009	14:24:46.362	14:37:29.484	763.12200
BE	75115	01-SEP-2009	14:58:46.462	15:11:09.040	742.57800
MM	75115	01-SEP-2009	16:04:10.921	16:16:45.558	754.63700
MI	75115	01-SEP-2009	15:30:54.863	15:43:52.259	777.39600
GS	75115	01-SEP-2009	15:24:54.198	15:38:30.880	816.68200

CM	75115	01-SEP-2009	15:34:29.264	15:44:53.768	624.50400
MM	75116	01-SEP-2009	17:43:21.821	17:55:53.884	752.06300
MI	75116	01-SEP-2009	17:11:08.523	17:21:33.746	625.22300
GS	75116	01-SEP-2009	17:04:33.904	17:17:09.633	755.72900
CM	75116	01-SEP-2009	17:13:23.630	17:24:21.540	657.91000
MM	75117	01-SEP-2009	19:22:31.517	19:35:11.378	759.86100
JO	75117	01-SEP-2009	19:42:42.851	19:55:36.290	773.43900
MM	75118	01-SEP-2009	21:02:01.751	21:14:44.877	763.12600
JO	75118	01-SEP-2009	21:21:19.262	21:35:45.001	865.73900
MM	75119	01-SEP-2009	22:42:15.394	22:54:34.119	738.72500
MA	75119	01-SEP-2009	21:40:35.864	21:53:13.992	758.12800

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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

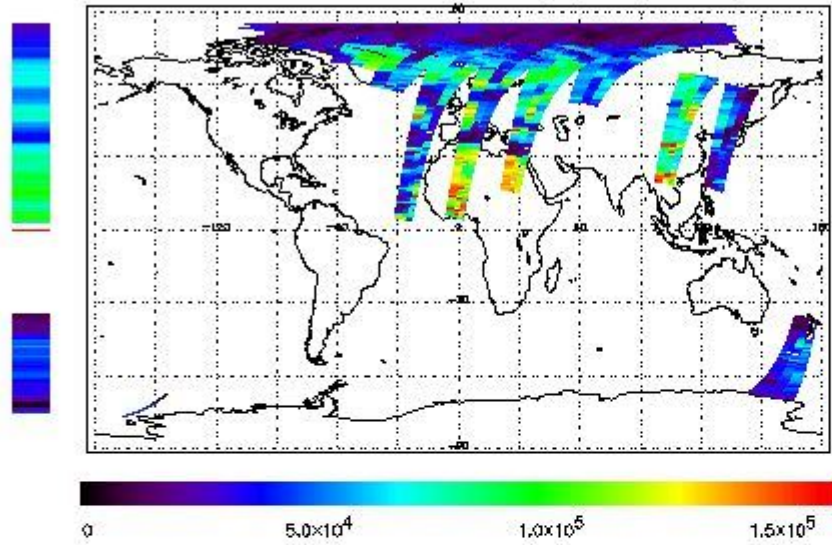
(1)

## 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

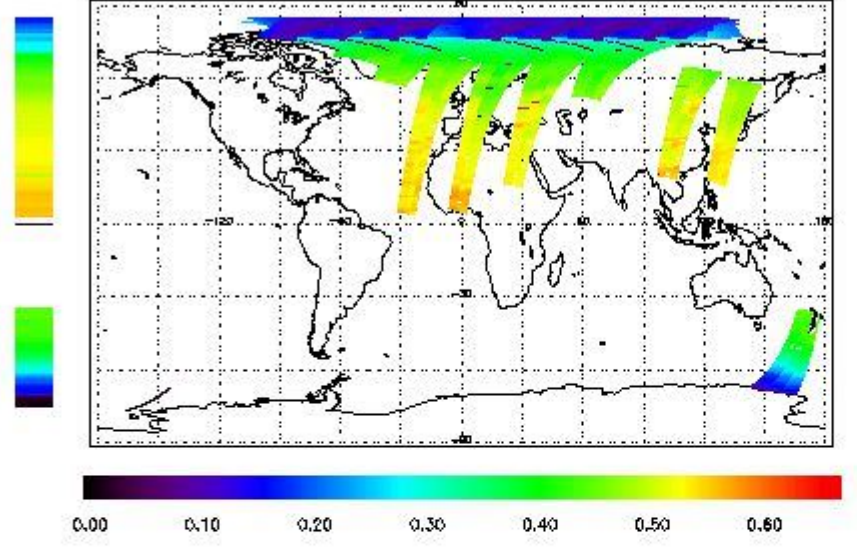
NEAR IR Intensity

First Product : 31-AUG-2000 23:51:48.573 : ORBIT : 75106.0183  
 Last Product : 01-SEP-2000 23:44:10.762 : ORBIT : 75120.2568  
 Total Products Processed : 15370 Day : 244 Page : 21  
 778 nm Uncalibrated Intensity (Binary Units)



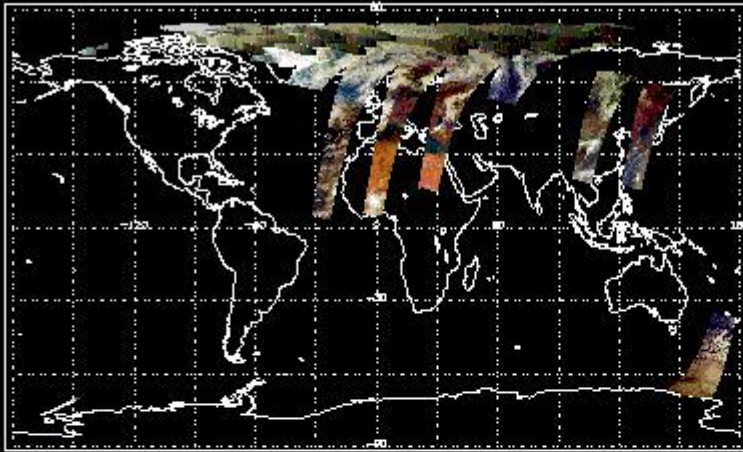
Ozone Line Ratio

First Product : 31-AUG-2009 23:51:48.573 : ORBIT : 75106.0183  
Last Product : 01-SEP-2009 23:44:10.762 : ORBIT : 75120.2568  
Total Products Processed : 15370 Day : 244 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	18:37:49.404	--	75117	Y	--	14986

(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)
--	--	--

(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
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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