

# GOME Daily Report

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## 1 - General Info

### 1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	21-DEC-2009
Start Time of First Product	00:03:21
Stop Time of Last Product	23:45:01
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
OI_091221BEEP1438.E2;1	21-DEC-2009	02:20:07.869
EGOI_091221BEEP1444.E2	21-DEC-2009	03:55:33.960
EGOI_091221CMEP5806.E2	21-DEC-2009	15:46:54.856
EGOI_091221CMEP5813.E2	21-DEC-2009	17:26:23.971
EGOI_091221GSEP5714.E2	21-DEC-2009	01:50:01.681
EGOI_091221GSEP5743.E2	21-DEC-2009	03:28:51.796
EGOI_091221GSEP5752.E2	21-DEC-2009	05:11:52.431
EGOI_091221KSEP9138.E2	21-DEC-2009	07:10:18.663
EGOI_091221KSEP9161.E2	21-DEC-2009	08:50:17.779

EGOI_091221KSEP9192.E2	21-DEC-2009	10:29:57.394
EGOI_091221KSEP9224.E2	21-DEC-2009	12:09:23.510
EGOI_091221KSEP9240.E2	21-DEC-2009	13:48:22.626
EGOI_091221KSEP9268.E2	21-DEC-2009	15:26:50.235
EGOI_091221KSEP9300.E2	21-DEC-2009	17:04:16.334
EGOI_091221KSEP9335.E2	21-DEC-2009	18:42:16.943
EGOI_091221KSEP9371.E2	21-DEC-2009	20:21:19.054
EGOI_091221KSEP9401.E2	21-DEC-2009	22:02:45.182
EGOI_091221MAEP7076.E2	21-DEC-2009	08:57:35.826
EGOI_091221MAEP7087.E2	21-DEC-2009	10:37:27.441
EGOI_091221MAEP7110.E2	21-DEC-2009	21:54:40.631
EGOI_091221MIEP8097.E2	21-DEC-2009	15:44:21.841
EGOI_091221MIEP8120.E2	21-DEC-2009	17:25:13.465
EGOI_091221MMEP2077.E2	21-DEC-2009	11:18:05.196
EGOI_091221MMEP2084.E2	21-DEC-2009	12:57:55.312
EGOI_091221MMEP2095.E2	21-DEC-2009	14:37:33.433
EGOI_091221MMEP2102.E2	21-DEC-2009	16:17:16.044
EGOI_091221MMEP2108.E2	21-DEC-2009	17:57:19.661
EGOI_091221MMEP2113.E2	21-DEC-2009	19:35:51.772
EGOI_091221MSEP8533.E2	21-DEC-2009	00:03:20.520
EGOI_091221MSEP8550.E2	21-DEC-2009	10:43:51.484
EGOI_091221MSEP8578.E2	21-DEC-2009	12:22:43.097
EGOI_091221MSEP8603.E2	21-DEC-2009	21:53:40.623
EGOI_091221MSEP8634.E2	21-DEC-2009	23:31:33.732
EGOI_091221SGEP2325.E2	21-DEC-2009	02:28:09.416
EGOI_091221SGEP2333.E2	21-DEC-2009	04:06:22.023
EGOI_091221SGEP2340.E2	21-DEC-2009	15:01:47.078
EGOI_091221SGEP2349.E2	21-DEC-2009	16:43:14.709

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### 1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	76699	21-DEC-2009	07:08:26.111	07:10:18.662	112.55100
KS	76700	21-DEC-2009	08:47:54.812	08:50:17.779	142.96700
KS	76701	21-DEC-2009	10:27:32.242	10:29:57.393	145.15100
KS	76702	21-DEC-2009	12:06:58.164	12:09:23.509	145.34500
KS	76703	21-DEC-2009	13:45:54.168	13:48:22.626	148.45800
KS	76704	21-DEC-2009	15:24:04.924	15:26:50.234	165.31000
KS	76705	21-DEC-2009	17:01:47.064	17:04:16.334	149.27000
KS	76706	21-DEC-2009	18:39:54.882	18:42:16.942	142.06000
KS	76707	21-DEC-2009	20:19:21.350	20:21:19.054	117.70400
KS	76708	21-DEC-2009	22:00:46.053	22:02:45.181	119.12800

KS	76709	21-DEC-2009	23:45:03.260	23:46:39.825	96.565000
GS	76696	21-DEC-2009	01:48:20.583	01:50:01.680	101.09700
GS	76697	21-DEC-2009	03:27:03.982	03:28:51.796	107.81400
MS	76695	21-DEC-2009	00:01:10.534	00:03:20.519	129.98500
MS	76701	21-DEC-2009	10:41:22.006	10:43:51.483	149.47700
MS	76702	21-DEC-2009	12:20:09.510	12:22:43.097	153.58700
MS	76708	21-DEC-2009	21:51:51.565	21:53:40.622	109.05700
MS	76709	21-DEC-2009	23:29:13.235	23:31:33.731	140.49600
MA	76701	21-DEC-2009	10:35:32.499	10:37:27.440	114.94100
MA	76708	21-DEC-2009	21:52:54.122	21:54:40.630	106.50800
MI	76704	21-DEC-2009	15:42:08.472	15:44:21.841	133.36900
MI	76705	21-DEC-2009	17:22:58.624	17:25:13.465	134.84100
MM	76701	21-DEC-2009	11:16:35.911	11:18:05.195	89.284000
MM	76702	21-DEC-2009	12:56:29.819	12:57:55.311	85.492000
MM	76703	21-DEC-2009	14:36:08.868	14:37:33.433	84.565000
MM	76704	21-DEC-2009	16:15:31.580	16:17:16.043	104.46300
MM	76705	21-DEC-2009	17:54:41.503	17:57:19.661	158.15800
MM	76706	21-DEC-2009	19:33:52.335	19:35:51.772	119.43700
BE	76696	21-DEC-2009	02:13:45.562	02:20:07.868	382.30600
BE	76697	21-DEC-2009	03:53:06.528	03:55:33.959	147.43100
SG	76696	21-DEC-2009	02:26:01.546	02:28:09.415	127.86900
SG	76697	21-DEC-2009	04:04:09.139	04:06:22.022	132.88300
SG	76703	21-DEC-2009	14:59:32.892	15:01:47.077	134.18500
SG	76704	21-DEC-2009	16:40:25.428	16:43:14.709	169.28100
CM	76704	21-DEC-2009	15:45:26.864	15:46:54.856	87.992000
CM	76705	21-DEC-2009	17:25:06.591	17:26:23.970	77.379000

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#### 1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	76695	21-DEC-2009	00:55:21.544	01:09:00.230	818.68600
MM	76695	21-DEC-2009	01:07:11.986	01:17:33.999	622.01300
KS	76695	21-DEC-2009	00:19:08.032	00:22:13.760	185.72800
MM	76696	21-DEC-2009	02:49:53.562	02:57:59.922	486.36000
MI	76696	21-DEC-2009	01:47:35.462	01:52:38.098	302.63600
MM	76697	21-DEC-2009	04:32:58.069	04:39:02.176	364.10700

MI	76697	21-DEC-2009	03:21:56.219	03:35:17.940	801.72100
CM	76697	21-DEC-2009	03:21:41.265	03:32:48.807	667.54200
CM	76697	21-DEC-2009	05:01:21.801	05:11:32.943	611.14200
MM	76698	21-DEC-2009	06:15:08.125	06:21:20.437	372.31200
MI	76698	21-DEC-2009	05:04:57.306	05:11:37.214	399.90800
MM	76699	21-DEC-2009	07:56:05.053	08:04:25.747	500.69400
JO	76699	21-DEC-2009	07:33:39.414	07:47:50.737	851.32300
MM	76700	21-DEC-2009	09:36:28.552	09:47:02.066	633.51400
JO	76700	21-DEC-2009	09:13:23.085	09:26:43.722	800.63700
HO	76701	21-DEC-2009	11:26:47.398	11:38:07.306	679.90800
HO	76702	21-DEC-2009	13:05:03.804	13:19:53.128	889.32400
HO	76703	21-DEC-2009	14:45:30.910	14:55:43.006	612.09600
GS	76703	21-DEC-2009	13:58:56.399	14:06:24.180	447.78100
BE	76704	21-DEC-2009	15:10:30.469	15:22:18.338	707.86900
GS	76704	21-DEC-2009	15:36:12.639	15:50:00.828	828.18900
GS	76705	21-DEC-2009	17:16:03.275	17:28:09.122	725.84700
JO	76706	21-DEC-2009	19:53:44.886	20:07:23.395	818.50900
MM	76707	21-DEC-2009	21:13:26.444	21:26:08.606	762.16200
MA	76707	21-DEC-2009	20:11:59.714	20:25:42.263	822.54900
JO	76707	21-DEC-2009	21:32:49.874	21:46:48.568	838.69400
HO	76708	21-DEC-2009	22:45:17.833	22:58:18.155	780.32200
MM	76708	21-DEC-2009	22:53:46.266	23:05:59.508	733.24200

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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

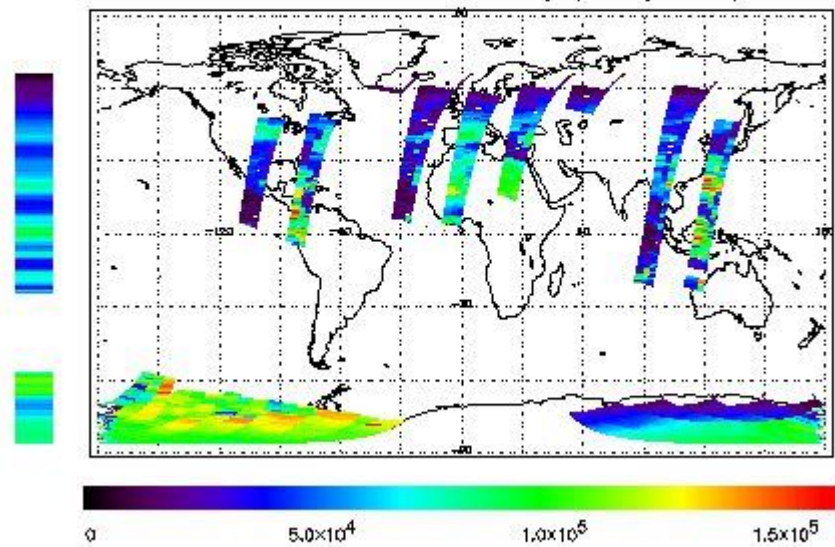
## 2.2 - Daily Plots

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-DEC-2008 00:03:20.520 : ORBIT : 76695.0187  
 Last Product : 21-DEC-2008 23:45:00.814 : ORBIT : 76708.1508  
 Total Products Processed : 18818 Day : 355 Page : 21

778 nm Uncalibrated Intensity (Binary Units)



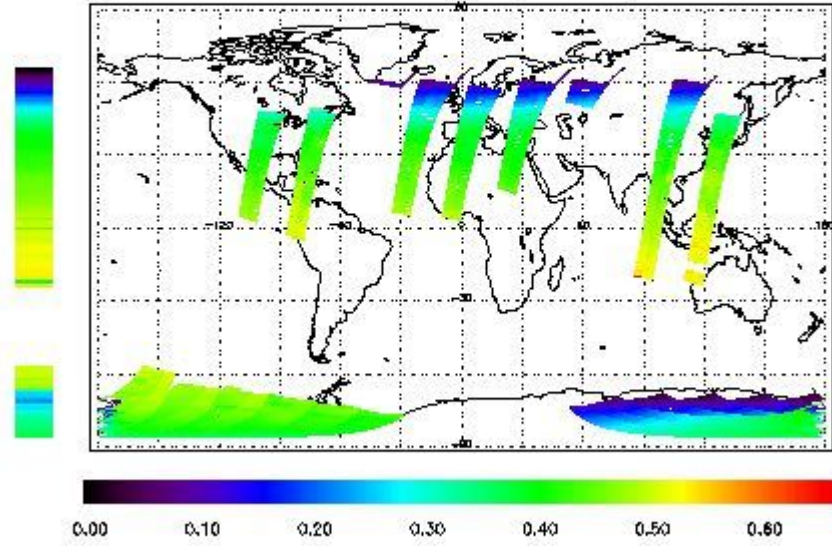
### Ozone Line Ratio



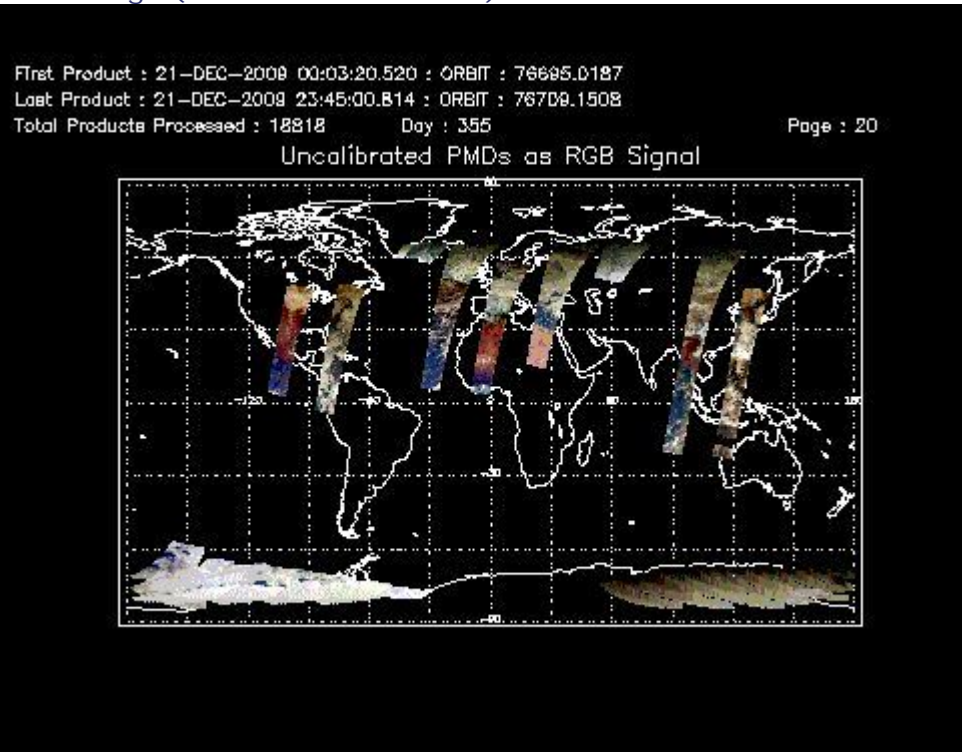
First Product : 21-DEC-2009 00:03:20.520 : ORBIT : 76695.0187  
 Last Product : 21-DEC-2009 23:45:00.814 : ORBIT : 76709.1508  
 Total Products Processed : 18818 Day : 355

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331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)



### 3 - Instrument Calibration

#### 3.1 - Solar Calibration (Daily/TST44)

Daily(D)/TST44(T)	Start Time	End Time (T)	Orbit	Ground Station Visibility	Warm Detector Temperature (TST/44)	Max PMD Readout during solar calibration (BU set 2/12)
D	10:35:40.920	--	76701	Yes	--	15832

#### 3.2 - Lamp Calibration (Quarterly/TST44)

Quarterly(Q)/TST44(T)	Start Time	End Time	Orbit	Ground Station Visibility	Warm Detector Temperature (TST/44)	Lamp Instability Voltage (if any) (V)	Lamp Failure N. (if any)
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## 4 - Instrument Anomalies

### 4.1 - Single Event Upset (SEU)

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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### 4.2 - Instrument Off

Start Time	End Time	Start Orbit	End Orbit	MPS Resumption	Ground Station Visibility
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### 4.3 - Cooler Switchings

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility	Max Temp. Ch 1	Max Temp. Ch 2	Max Temp. Ch 3	Max Temp. Ch 4
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## 5 - Instrument Operations

Additional Info

### 5.1 - Timeline Interruptions

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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### 5.2 - TST44

Start Time	Start Orbit	Ground Station Visibility
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### 5.3 - Power Cycle

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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### 5.4 - Wrong Command Execution

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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### 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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(1) The 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