

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	21-SEP-2009
Start Time of First Product	00:00:01
Stop Time of Last Product	23:05:27
Number of EGOI Products analysed	16
Number of corrupted products	--
Anomalies and/or Special Operations	Due to a problem in the ground segment many data are missing

1.2 - List of received products

Name	Date	Time
EGOI_090921KSEP3604.E2	21-SEP-2009	06:30:43.582
EGOI_090921KSEP3625.E2	21-SEP-2009	08:10:38.188
EGOI_090921KSEP3647.E2	21-SEP-2009	09:50:17.793
EGOI_090921KSEP3672.E2	21-SEP-2009	11:29:54.399
EGOI_090921KSEP3692.E2	21-SEP-2009	13:08:59.500
EGOI_090921KSEP3704.E2	21-SEP-2009	14:47:45.094
EGOI_090921KSEP3735.E2	21-SEP-2009	18:03:29.843
EGOI_090921KSEP3771.E2	21-SEP-2009	19:41:33.438
EGOI_090921KSEP3796.E2	21-SEP-2009	21:22:02.548

EGOI_090921MAEP4107.E2	21-SEP-2009	09:54:38.086
EGOI_090921MAEP4124.E2	21-SEP-2009	21:14:29.506
EGOI_090921MIEP9584.E2	21-SEP-2009	16:44:36.865
EGOI_090921MSEP7950.E2	21-SEP-2009	10:05:50.939
EGOI_090921MSEP7962.E2	21-SEP-2009	21:17:17.521
EGOI_090921MSEP7994.E2	21-SEP-2009	22:51:36.097

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75396	21-SEP-2009	06:28:52.674	06:30:43.581	110.90700
KS	75397	21-SEP-2009	08:08:04.612	08:10:38.188	153.57600
KS	75398	21-SEP-2009	09:47:41.714	09:50:17.793	156.07900
KS	75399	21-SEP-2009	11:27:14.275	11:29:54.399	160.12400
KS	75400	21-SEP-2009	13:06:24.643	13:08:59.499	154.85600
KS	75401	21-SEP-2009	14:45:06.039	14:47:45.094	159.05500
KS	75403	21-SEP-2009	18:00:34.578	18:03:29.842	175.26400
KS	75404	21-SEP-2009	19:39:22.648	19:41:33.438	130.79000
KS	75405	21-SEP-2009	21:19:55.494	21:22:02.547	127.05300
MS	75406	21-SEP-2009	22:49:29.173	22:51:36.097	126.92400
MS	75399	21-SEP-2009	11:40:10.126	11:42:51.530	161.40400
MS	75400	21-SEP-2009	13:21:33.756	13:24:11.641	157.88500
MA	75398	21-SEP-2009	10:06:03.652	10:08:50.666	167.01400
MA	75405	21-SEP-2009	21:11:40.299	21:14:29.505	169.20600
MI	75402	21-SEP-2009	16:42:00.857	16:44:36.864	156.00700

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75392	21-SEP-2009	00:14:53.350	00:29:31.587	878.23700
MM	75392	21-SEP-2009	00:26:23.454	00:37:28.819	665.36500
HO	75393	21-SEP-2009	01:58:12.895	02:06:52.470	519.57500
MM	75393	21-SEP-2009	02:08:43.051	02:17:46.840	543.78900
GS	75393	21-SEP-2009	01:10:07.706	01:20:41.334	633.62800
BE	75394	21-SEP-2009	03:13:04.811	03:26:26.853	802.04200
MM	75394	21-SEP-2009	03:51:46.049	03:58:30.396	404.34700
MI	75394	21-SEP-2009	02:42:56.426	02:55:09.510	733.08400
GS	75394	21-SEP-2009	02:47:03.040	03:00:58.489	835.44900

SG	75394	21-SEP-2009	03:24:04.567	03:37:57.357	832.79000
CM	75394	21-SEP-2009	02:44:32.020	02:51:09.981	397.96100
CM	75394	21-SEP-2009	04:20:32.658	04:32:48.591	735.93300
BE	75395	21-SEP-2009	04:54:04.273	05:02:21.704	497.43100
MM	75395	21-SEP-2009	05:34:26.676	05:40:15.064	348.38800
MI	75395	21-SEP-2009	04:22:26.557	04:34:09.542	702.98500
GS	75395	21-SEP-2009	04:28:44.152	04:39:21.744	637.59200
MM	75396	21-SEP-2009	07:15:48.178	07:23:11.649	443.47100
JO	75396	21-SEP-2009	06:55:33.909	07:07:10.519	696.61000
MM	75397	21-SEP-2009	08:56:21.551	09:06:06.025	584.47400
MA	75397	21-SEP-2009	08:17:23.183	08:28:16.339	653.15600
JO	75397	21-SEP-2009	08:32:45.774	08:47:38.958	893.18400
MM	75398	21-SEP-2009	10:36:34.568	10:48:06.982	692.41400
MM	75399	21-SEP-2009	12:16:33.929	12:29:03.200	749.27100
MA	75399	21-SEP-2009	11:37:06.349	11:44:17.139	430.79000
MM	75400	21-SEP-2009	13:56:19.165	14:09:03.099	763.93400
SG	75400	21-SEP-2009	14:21:19.023	14:31:59.528	640.50500
BE	75401	21-SEP-2009	14:29:49.001	14:43:02.856	793.85500
MM	75401	21-SEP-2009	15:35:48.417	15:48:25.584	757.16700
MI	75401	21-SEP-2009	15:03:10.535	15:14:39.545	689.01000
GS	75401	21-SEP-2009	14:56:46.008	15:09:28.271	762.26300
SG	75401	21-SEP-2009	15:59:08.748	16:12:19.650	790.90200
CM	75401	21-SEP-2009	15:07:58.829	15:14:27.535	388.70600
MM	75402	21-SEP-2009	17:15:02.436	17:27:33.971	751.53500
KS	75402	21-SEP-2009	16:22:45.999	16:34:53.878	727.87900
GS	75402	21-SEP-2009	16:35:56.093	16:49:25.264	809.17100
CM	75402	21-SEP-2009	16:44:31.343	16:56:43.899	732.55600
MM	75403	21-SEP-2009	18:54:10.573	19:06:47.731	757.15800
GS	75403	21-SEP-2009	18:16:57.030	18:24:37.768	460.73800
JO	75403	21-SEP-2009	19:15:40.487	19:25:29.039	588.55200
MM	75404	21-SEP-2009	20:33:32.465	20:46:16.467	764.00200
MA	75404	21-SEP-2009	19:33:20.531	19:45:07.507	706.97600
JO	75404	21-SEP-2009	20:52:45.117	21:07:45.237	900.12000
HO	75405	21-SEP-2009	22:07:17.690	22:18:02.330	644.64000
MM	75405	21-SEP-2009	22:13:31.656	22:26:01.439	749.78300
JO	75405	21-SEP-2009	22:34:29.854	22:43:00.450	510.59600

HO	75406	21-SEP-2009	23:43:52.512	23:58:16.070	863.55800
MM	75406	21-SEP-2009	23:54:26.978	00:06:00.622	693.64400
KS	75406	21-SEP-2009	23:02:52.821	23:12:25.357	572.53600

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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	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

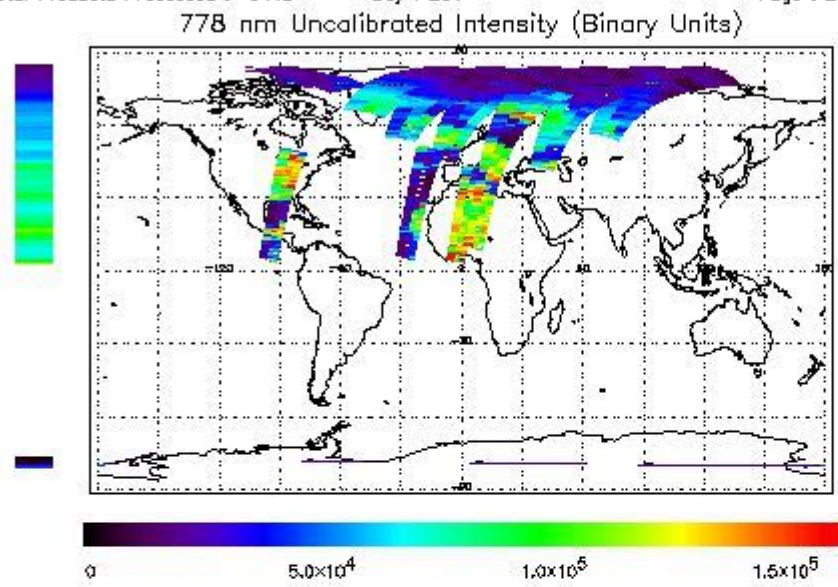
(1)

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

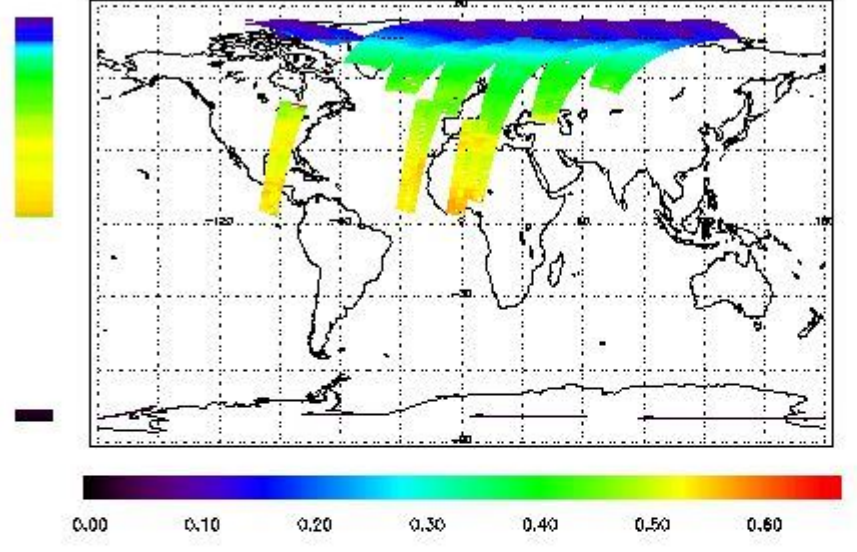
First Product : 20-SEP-2009 00:00:00.997 : ORBIT : 75378.0713
 Last Product : 21-SEP-2009 23:05:27.179 : ORBIT : 75406.1575
 Total Products Processed : 9445 Day : 264 Page : 21



Ozone Line Ratio

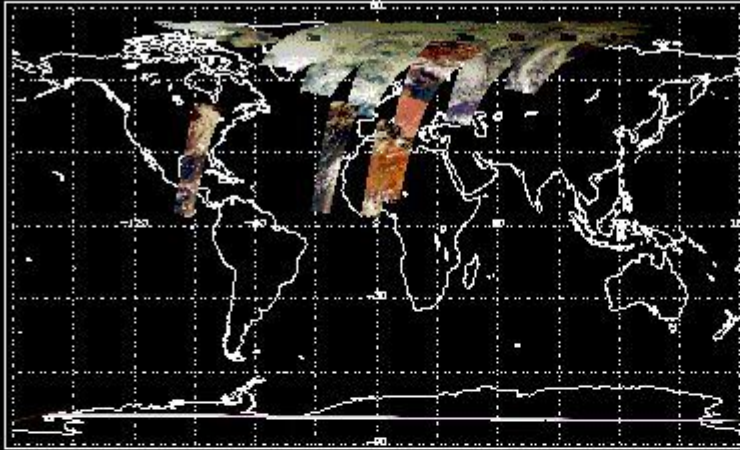
First Product : 20-SEP-2009 00:00:00.997 : ORBIT : 75378.0713
Last Product : 21-SEP-2009 23:05:27.179 : ORBIT : 75406.1575
Total Products Processed : 9445 Day : 264

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	18:11:28.380	--	75403	Y	--	15098

(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
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5.6 - Seasonal Operations

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

01:00 05-Sep	--	75164	--
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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