

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	25-SEP-2009
Start Time of First Product	07:44:39
Stop Time of Last Product	22:50:14
Number of EGOI Products analysed	12
Number of corrupted products	--
Anomalies and/or Special Operations	Narrow Swath performed as planned, end orbit 75461; due to a problem in the ground segment many data are missing

1.2 - List of received products

Name	Date	Time
EGOI_090925KSEP4626.E2	25-SEP-2009	07:44:38.702
EGOI_090925KSEP4649.E2	25-SEP-2009	09:24:39.312
EGOI_090925KSEP4684.E2	25-SEP-2009	11:04:17.421
EGOI_090925KSEP4711.E2	25-SEP-2009	12:43:34.526
EGOI_090925KSEP4724.E2	25-SEP-2009	14:22:27.624
EGOI_090925KSEP4742.E2	25-SEP-2009	16:00:13.218
EGOI_090925KSEP4758.E2	25-SEP-2009	17:38:10.812
EGOI_090925KSEP4793.E2	25-SEP-2009	19:16:00.913
EGOI_090925KSEP4828.E2	25-SEP-2009	20:56:01.519

EGOI_090925KSEP4858.E2	25-SEP-2009	22:38:06.644
EGOI_090925MAEP4229.E2	25-SEP-2009	09:32:25.862
EGOI_090925MAEP4244.E2	25-SEP-2009	11:12:00.964

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75454	25-SEP-2009	07:42:29.490	07:44:38.701	129.21100
KS	75455	25-SEP-2009	09:22:04.466	09:24:39.312	154.84600
KS	75456	25-SEP-2009	11:01:39.853	11:04:17.421	157.56800
KS	75457	25-SEP-2009	12:40:57.754	12:43:34.525	156.77100
KS	75458	25-SEP-2009	14:19:47.672	14:22:27.624	159.95200
KS	75459	25-SEP-2009	15:57:35.728	16:00:13.218	157.49000
KS	75460	25-SEP-2009	17:35:30.571	17:38:10.812	160.24100
KS	75461	25-SEP-2009	19:13:49.513	19:16:00.912	131.39900
KS	75462	25-SEP-2009	20:53:52.294	20:56:01.518	129.22400
KS	75463	25-SEP-2009	22:36:07.241	22:38:06.643	119.40200
MA	75455	25-SEP-2009	09:30:11.488	09:32:25.862	134.37400
MA	75456	25-SEP-2009	11:10:48.236	11:12:00.964	72.728000

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75449	24-SEP-2009	23:49:30.004	00:03:57.669	867.66500
MM	75449	25-SEP-2009	00:00:14.940	00:11:43.832	688.89200
HO	75450	25-SEP-2009	01:30:34.561	01:42:23.040	708.47900
MM	75450	25-SEP-2009	01:42:18.687	01:51:57.639	578.95200
MS	75450	25-SEP-2009	00:37:08.884	00:46:10.717	541.83300
GS	75450	25-SEP-2009	00:46:04.001	00:54:31.449	507.44800
BE	75451	25-SEP-2009	02:47:32.340	03:00:53.102	800.76200
MM	75451	25-SEP-2009	03:25:14.751	03:32:32.465	437.71400
MI	75451	25-SEP-2009	02:18:31.825	02:28:54.893	623.06800
GS	75451	25-SEP-2009	02:22:54.479	02:35:20.357	745.87800
SG	75451	25-SEP-2009	02:58:50.905	03:12:12.088	801.18300
CM	75451	25-SEP-2009	03:54:59.373	04:07:20.820	741.44700
BE	75452	25-SEP-2009	04:27:45.140	04:38:20.586	635.44600
MM	75452	25-SEP-2009	05:08:09.537	05:13:56.964	347.42700

MI	75452	25-SEP-2009	03:56:11.598	04:09:09.711	778.11300
GS	75452	25-SEP-2009	04:02:00.564	04:14:21.578	741.01400
SG	75452	25-SEP-2009	04:39:30.710	04:49:41.103	610.39300
MM	75453	25-SEP-2009	06:49:50.804	06:56:40.285	409.48100
KS	75453	25-SEP-2009	06:03:42.192	06:09:09.293	327.10100
CM	75453	25-SEP-2009	05:38:35.532	05:42:40.506	244.97400
JO	75453	25-SEP-2009	06:31:59.941	06:40:22.495	502.55400
MM	75454	25-SEP-2009	08:30:32.649	08:39:42.280	549.63100
MA	75454	25-SEP-2009	07:52:55.987	07:59:48.143	412.15600
JO	75454	25-SEP-2009	08:07:10.616	08:22:10.392	899.77600
MM	75455	25-SEP-2009	10:10:49.738	10:21:59.203	669.46500
JO	75455	25-SEP-2009	09:49:22.539	09:59:18.317	595.77800
HO	75456	25-SEP-2009	12:00:13.467	12:13:34.690	801.22300
MM	75456	25-SEP-2009	11:50:52.514	12:03:11.825	739.31100
MS	75456	25-SEP-2009	11:14:42.141	11:27:43.429	781.28800
HO	75457	25-SEP-2009	13:39:14.259	13:53:43.824	869.56500
MM	75457	25-SEP-2009	13:30:41.559	13:43:24.721	763.16200
MS	75457	25-SEP-2009	12:54:54.480	13:05:27.891	633.41100
BE	75458	25-SEP-2009	14:04:08.721	14:17:33.418	804.69700
HO	75458	25-SEP-2009	15:20:34.186	15:28:10.322	456.13600
MM	75458	25-SEP-2009	15:10:15.060	15:22:54.658	759.59800
MI	75458	25-SEP-2009	14:38:51.734	14:47:34.832	523.09800
GS	75458	25-SEP-2009	14:31:40.461	14:42:40.358	659.89700
SG	75458	25-SEP-2009	15:33:19.210	15:47:10.331	831.12100
BE	75459	25-SEP-2009	15:46:27.010	15:55:15.533	528.52300
MM	75459	25-SEP-2009	16:49:32.524	17:02:04.492	751.96800
MI	75459	25-SEP-2009	16:16:10.091	16:29:23.386	793.29500
GS	75459	25-SEP-2009	16:10:16.275	16:24:09.135	832.86000
CM	75459	25-SEP-2009	16:18:56.552	16:31:19.789	743.23700
MM	75460	25-SEP-2009	18:28:40.681	18:41:15.550	754.86900
GS	75460	25-SEP-2009	17:50:41.613	18:00:43.194	601.58100
CM	75460	25-SEP-2009	18:01:33.962	18:06:10.703	276.74100
MM	75461	25-SEP-2009	20:07:56.760	20:20:40.041	763.28100
MA	75461	25-SEP-2009	19:11:09.645	19:18:51.432	461.78700
JO	75461	25-SEP-2009	20:27:16.996	20:42:09.369	892.37300
MM	75462	25-SEP-2009	21:47:44.266	22:00:21.005	756.73900

MA	75462	25-SEP-2009	20:45:44.016	20:59:26.700	822.68400
JO	75462	25-SEP-2009	22:07:43.402	22:19:24.480	701.07800
HO	75463	25-SEP-2009	23:18:30.915	23:32:38.469	847.55400
MM	75463	25-SEP-2009	23:28:23.816	23:40:16.714	712.89800
MS	75463	25-SEP-2009	22:24:27.712	22:36:47.011	739.29900

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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

(1)

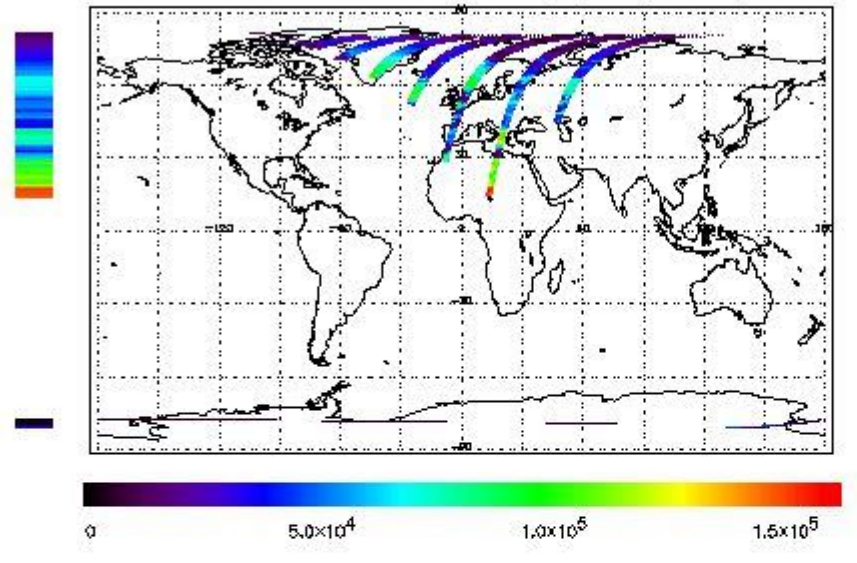
2.2 - Daily Plots

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 : 25-SEP-2009 07:44:38.702 : ORBIT : 75454.2614
Last Product : 25-SEP-2009 22:50:14.214 : ORBIT : 75463.2634
Total Products Processed : 6351 Day : 268 Page : 21

778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

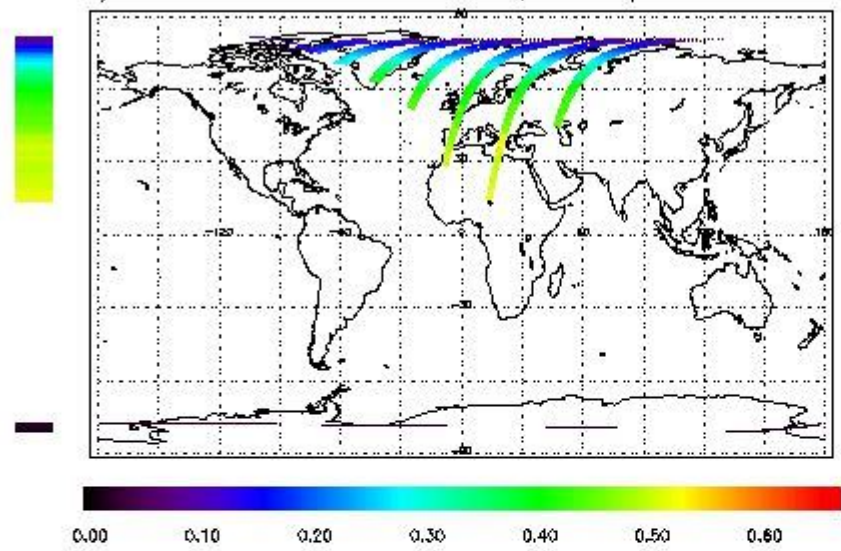
First Product : 25-SEP-2009 07:44:38.702 : ORBIT : 75454.2614

Last Product : 25-SEP-2009 22:50:14.214 : ORBIT : 75483.2634

Total Products Processed : 6351 Day : 268

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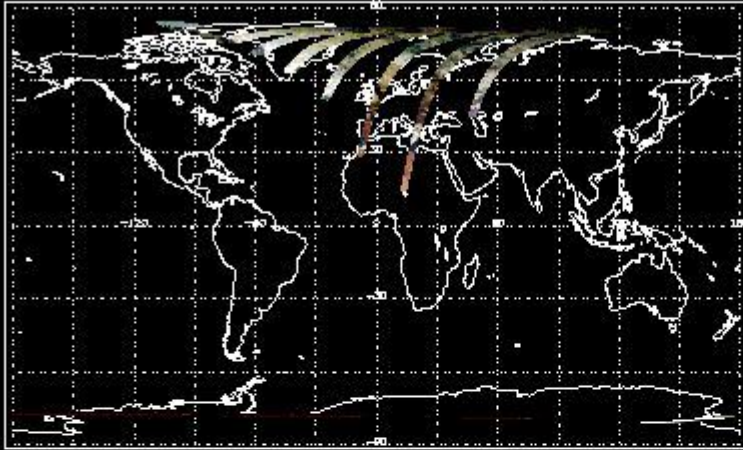
331/313 nm Uncalibrated Line Ratio, SZA Dependence Removed



PMD Image (Earthshine Radiance)

First Product : 25-SEP-2009 07:44:38.702 : ORBIT : 75454.2614
 Last Product : 25-SEP-2009 22:50:14.214 : ORBIT : 75463.2634
 Total Products Processed : 6351 Day : 268 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	19:26:36.970	--	75461	Y	--	15145

(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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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)

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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)
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(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
21:30	18:30	75448	75461

5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
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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