

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	29-SEP-2009
Start Time of First Product	00:12:20
Stop Time of Last Product	22:24:37
Number of EGOI Products analysed	29
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090929GSEP9587.E2	29-SEP-2009	01:58:34.265
EGOI_090929GSEP9618.E2	29-SEP-2009	03:37:42.366
EGOI_090929GSEP9628.E2	29-SEP-2009	05:20:38.495
EGOI_090929KSEP5688.E2	29-SEP-2009	07:19:01.722
EGOI_090929KSEP5710.E2	29-SEP-2009	08:59:02.331
EGOI_090929KSEP5736.E2	29-SEP-2009	10:38:41.944
EGOI_090929KSEP5765.E2	29-SEP-2009	12:18:05.051
EGOI_090929KSEP5796.E2	29-SEP-2009	13:57:02.648
EGOI_090929KSEP5824.E2	29-SEP-2009	15:35:16.757

EGOI_090929KSEP5856.E2	29-SEP-2009	17:12:51.852
EGOI_090929KSEP5892.E2	29-SEP-2009	18:50:49.451
EGOI_090929KSEP5927.E2	29-SEP-2009	20:30:05.062
EGOI_090929KSEP5958.E2	29-SEP-2009	22:11:41.685
EGOI_090929MAEP4358.E2	29-SEP-2009	09:06:24.884
EGOI_090929MAEP4371.E2	29-SEP-2009	10:46:11.987
EGOI_090929MIEP0056.E2	29-SEP-2009	01:57:19.257
EGOI_090929MIEP0082.E2	29-SEP-2009	03:34:33.347
EGOI_090929MIEP0102.E2	29-SEP-2009	05:16:50.472
EGOI_090929MIEP0112.E2	29-SEP-2009	15:53:04.870
EGOI_090929MIEP0134.E2	29-SEP-2009	17:34:21.985
EGOI_090929MMEP8860.E2	29-SEP-2009	02:59:55.636
EGOI_090929MMEP8871.E2	29-SEP-2009	09:46:37.122
EGOI_090929MMEP8878.E2	29-SEP-2009	11:26:45.238
EGOI_090929MMEP8889.E2	29-SEP-2009	16:25:56.070
EGOI_090929MMEP8898.E2	29-SEP-2009	21:24:18.892
EGOI_090929MSEP8729.E2	29-SEP-2009	00:12:20.118
EGOI_090929MSEP8756.E2	29-SEP-2009	10:52:24.026
EGOI_090929MSEP8784.E2	29-SEP-2009	12:31:27.633
EGOI_090929MSEP8814.E2	29-SEP-2009	22:01:56.622

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75511	29-SEP-2009	07:16:56.442	07:19:01.721	125.27900
KS	75512	29-SEP-2009	08:56:27.189	08:59:02.330	155.14100
KS	75513	29-SEP-2009	10:36:04.296	10:38:41.943	157.64700
KS	75514	29-SEP-2009	12:15:28.422	12:18:05.050	156.62800
KS	75515	29-SEP-2009	13:54:22.759	13:57:02.647	159.88800
KS	75516	29-SEP-2009	15:32:27.909	15:35:16.756	168.84700
KS	75517	29-SEP-2009	17:10:11.822	17:12:51.852	160.03000
KS	75518	29-SEP-2009	18:48:22.591	18:50:49.451	146.86000
KS	75519	29-SEP-2009	20:27:57.731	20:30:05.061	127.33000
KS	75520	29-SEP-2009	22:09:34.437	22:11:41.685	127.24800
GS	75508	29-SEP-2009	01:56:38.006	01:58:34.264	116.25800
GS	75509	29-SEP-2009	03:35:44.443	03:37:42.365	117.92200
MS	75507	29-SEP-2009	00:10:01.879	00:12:20.118	138.23900
MS	75513	29-SEP-2009	10:49:36.087	10:52:24.025	167.93800
MS	75514	29-SEP-2009	12:28:44.392	12:31:27.632	163.24000
MS	75520	29-SEP-2009	21:59:54.645	22:01:56.622	121.97700

MS	75521	29-SEP-2009	23:37:51.889	23:40:21.229	149.34000
MA	75513	29-SEP-2009	10:44:09.311	10:46:11.986	122.67500
MI	75508	29-SEP-2009	01:54:59.948	01:57:19.257	139.30900
MI	75509	29-SEP-2009	03:30:25.778	03:34:33.347	247.56900
MI	75510	29-SEP-2009	05:14:50.826	05:16:50.471	119.64500
MI	75516	29-SEP-2009	15:50:36.073	15:53:04.870	148.79700
MI	75517	29-SEP-2009	17:31:58.108	17:34:21.985	143.87700
MM	75508	29-SEP-2009	02:58:43.655	02:59:55.636	71.981000
MM	75512	29-SEP-2009	09:45:04.007	09:46:37.122	93.115000
MM	75513	29-SEP-2009	11:25:10.208	11:26:45.238	95.030000
MM	75516	29-SEP-2009	16:24:01.953	16:25:56.069	114.11600
MM	75519	29-SEP-2009	21:22:00.358	21:24:18.892	138.53400

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75507	29-SEP-2009	01:04:05.913	01:17:23.606	797.69300
MM	75507	29-SEP-2009	01:15:57.998	01:26:09.718	611.72000
BE	75508	29-SEP-2009	02:22:10.149	02:34:58.120	767.97100
SG	75508	29-SEP-2009	02:34:07.148	02:45:57.966	710.81800
CM	75508	29-SEP-2009	03:29:55.331	03:41:30.923	695.59200
BE	75509	29-SEP-2009	04:01:44.170	04:13:48.623	724.45300
MM	75509	29-SEP-2009	04:41:46.740	04:47:44.891	358.15100
SG	75509	29-SEP-2009	04:12:53.023	04:25:24.806	751.78300
CM	75509	29-SEP-2009	05:10:20.859	05:19:38.424	557.56500
MM	75510	29-SEP-2009	06:23:49.564	06:30:10.000	380.43600
MM	75511	29-SEP-2009	08:04:42.248	08:13:15.329	513.08100
JO	75511	29-SEP-2009	07:41:58.240	07:56:28.008	869.76800
JO	75512	29-SEP-2009	09:22:15.033	09:34:58.979	763.94600
HO	75513	29-SEP-2009	11:35:04.121	11:47:07.810	723.68900
HO	75514	29-SEP-2009	13:13:35.144	13:28:24.494	889.35000
MM	75514	29-SEP-2009	13:05:02.918	13:17:43.471	760.55300
HO	75515	29-SEP-2009	14:54:14.776	15:03:43.307	568.53100
MM	75515	29-SEP-2009	14:44:40.603	14:57:22.412	761.80900
GS	75515	29-SEP-2009	14:06:59.371	14:15:41.860	522.48900
SG	75515	29-SEP-2009	15:07:55.119	15:21:35.689	820.57000

BE	75516	29-SEP-2009	15:19:22.551	15:30:37.711	675.16000
GS	75516	29-SEP-2009	15:44:42.444	15:58:35.863	833.41900
SG	75516	29-SEP-2009	16:49:34.407	16:58:07.059	512.65200
CM	75516	29-SEP-2009	15:53:44.695	16:05:26.344	701.64900
MM	75517	29-SEP-2009	18:03:11.264	18:15:44.297	753.03300
GS	75517	29-SEP-2009	17:24:41.279	17:36:21.227	699.94800
CM	75517	29-SEP-2009	17:33:59.121	17:43:12.460	553.33900
MM	75518	29-SEP-2009	19:42:23.147	19:55:04.734	761.58700
MA	75518	29-SEP-2009	18:47:33.289	18:51:43.395	250.10600
JO	75518	29-SEP-2009	20:02:04.650	20:16:09.472	844.82200
MA	75519	29-SEP-2009	20:20:22.742	20:34:10.036	827.29400
JO	75519	29-SEP-2009	21:41:29.918	21:55:02.787	812.86900
HO	75520	29-SEP-2009	22:53:39.236	23:06:53.991	794.75500
MM	75520	29-SEP-2009	23:02:24.952	23:14:33.665	728.71300
MA	75520	29-SEP-2009	22:01:51.331	22:12:40.135	648.80400
MS	75521	29-SEP-2009	23:37:51.889	23:50:54.379	782.49000
KS	75521	29-SEP-2009	23:54:12.978	00:00:16.038	363.06000

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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

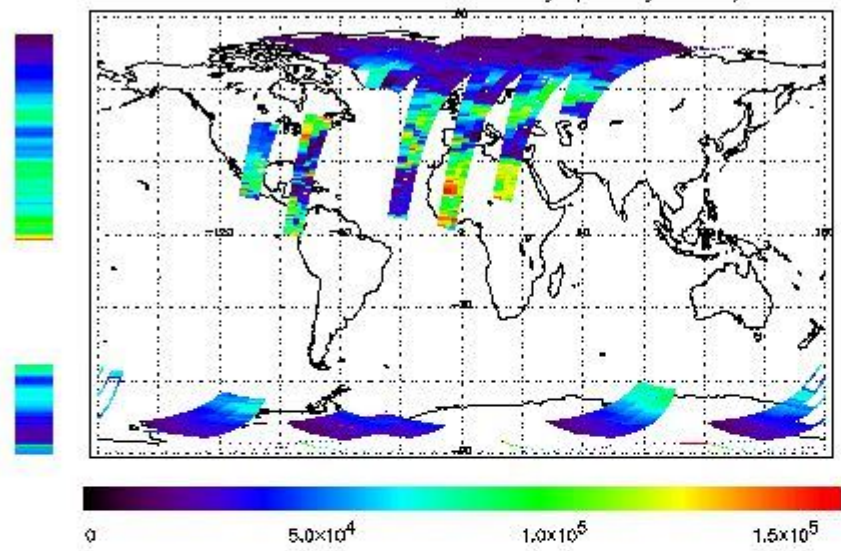
(1)

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

778 nm Uncalibrated Intensity (Binary Units)

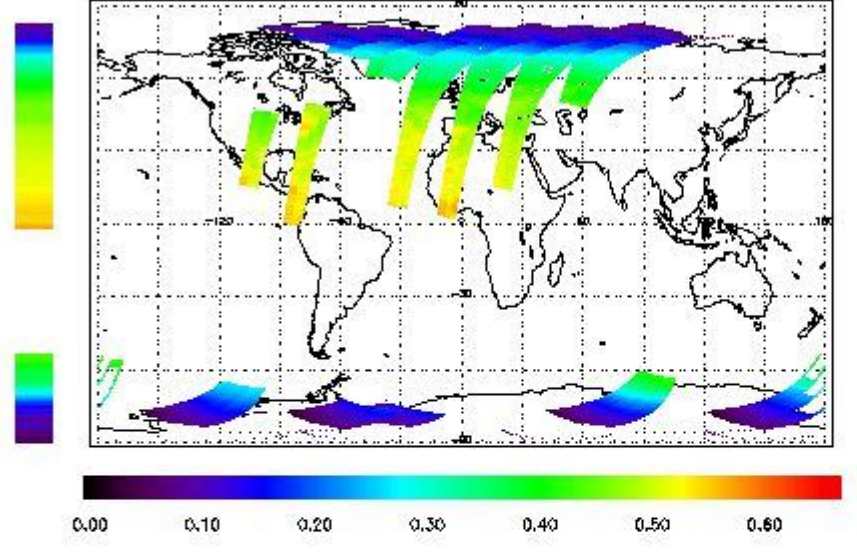


Ozone Line Ratio

First Product : 29-SEP-2009 00:12:20.118 : ORBIT : 75507.0224
Last Product : 29-SEP-2009 22:24:37.259 : ORBIT : 75520.2659

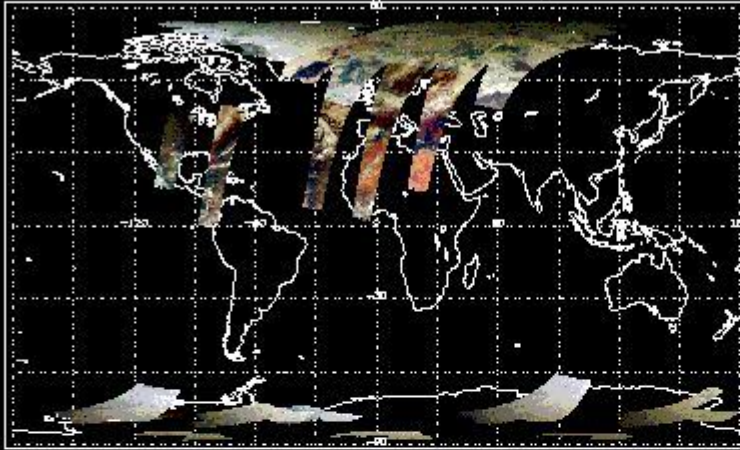
Total Products Processed : 14369 Day : 272 Page : 20

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	13:59:28.150	--	75515	Y	--	15226

(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
--	--	--	--

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