

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	23-AUG-2009
Start Time of First Product	23:49:47
Stop Time of Last Product	23:27:09
Number of EGOI Products analysed	35
Number of corrupted products	1
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090823BEEP0511.E2	23-AUG-2009	03:27:06.532
EGOI_090823GSEP7239.E2	23-AUG-2009	01:23:11.782
EGOI_090823GSEP7267.E2	23-AUG-2009	03:00:24.368
EGOI_090823GSEP7294.E2	23-AUG-2009	04:42:42.985
EGOI_090823GSEP7301.E2	23-AUG-2009	06:24:52.606
EGOI_090823HLEP3337.E2	23-AUG-2009	00:31:05.460
EGOI_090823HLEP3346.E2	23-AUG-2009	02:17:12.102
EGOI_090823HLEP3354.E2	23-AUG-2009	11:06:07.810
EGOI_090823HLEP3364.E2	23-AUG-2009	22:27:13.435

EGOI_090823KSEP6239.E2	22-AUG-2009	23:49:47.214
EGOI_090823KSEP6255.E2	23-AUG-2009	06:42:06.208
EGOI_090823KSEP6276.E2	23-AUG-2009	08:22:00.818
EGOI_090823KSEP6302.E2	23-AUG-2009	10:01:40.419
EGOI_090823KSEP6327.E2	23-AUG-2009	11:41:15.525
EGOI_090823KSEP6348.E2	23-AUG-2009	13:20:17.623
EGOI_090823KSEP6360.E2	23-AUG-2009	14:58:58.724
EGOI_090823KSEP6375.E2	23-AUG-2009	16:36:35.310
EGOI_090823KSEP6406.E2	23-AUG-2009	18:14:34.408
EGOI_090823KSEP6441.E2	23-AUG-2009	19:53:02.002
EGOI_090823KSEP6468.E2	23-AUG-2009	21:33:43.115
EGOI_090823KSEP6496.E2	23-AUG-2009	23:16:40.736
EGOI_090823MAEP3061.E2	23-AUG-2009	08:30:47.373
EGOI_090823MAEP3072.E2	23-AUG-2009	10:09:05.970
EGOI_090823MAEP3090.E2	23-AUG-2009	21:25:55.064
EGOI_090823MIEP7435.E2	23-AUG-2009	02:56:27.341
EGOI_090823MIEP7461.E2	23-AUG-2009	04:36:42.950
EGOI_090823MIEP7488.E2	23-AUG-2009	15:16:39.326
EGOI_090823MIEP7515.E2	23-AUG-2009	16:56:02.431
EGOI_090823MSEP4758.E2	23-AUG-2009	10:16:39.013
EGOI_090823MSEP4787.E2	23-AUG-2009	11:54:11.103
EGOI_090823MSEP4807.E2	23-AUG-2009	13:36:07.216
EGOI_090823MSEP4821.E2	23-AUG-2009	21:28:53.584
EGOI_090823MSEP4853.E2	23-AUG-2009	23:03:07.658
EGOI_090823SGEP9105.E2	23-AUG-2009	02:04:08.938
EGOI_090823SGEP9114.E2	23-AUG-2009	03:47:48.571

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74981	23-AUG-2009	06:40:08.954	06:42:06.208	117.25400
KS	74982	23-AUG-2009	08:19:27.321	08:22:00.818	153.49700
KS	74983	23-AUG-2009	09:59:04.847	10:01:40.419	155.57200
KS	74984	23-AUG-2009	11:38:35.796	11:41:15.525	159.72900
KS	74985	23-AUG-2009	13:17:42.386	13:20:17.622	155.23600
KS	74986	23-AUG-2009	14:56:18.662	14:58:58.723	160.06100
KS	74987	23-AUG-2009	16:33:55.999	16:36:35.310	159.31100
KS	74988	23-AUG-2009	18:11:46.609	18:14:34.408	167.79900
KS	74989	23-AUG-2009	19:50:46.201	19:53:02.001	135.80000
KS	74990	23-AUG-2009	21:31:33.207	21:33:43.114	129.90700
KS	74991	23-AUG-2009	23:14:51.148	23:16:40.735	109.58700
GS	74978	23-AUG-2009	01:20:57.676	01:23:11.782	134.10600

GS	74979	23-AUG-2009	02:58:24.573	03:00:24.367	119.79400
GS	74980	23-AUG-2009	04:40:49.139	04:42:42.985	113.84600
MS	74983	23-AUG-2009	10:14:00.794	10:16:39.013	158.21900
MS	74984	23-AUG-2009	11:51:27.498	11:54:11.103	163.60500
MS	74991	23-AUG-2009	23:00:44.419	23:03:07.657	143.23800
MA	74982	23-AUG-2009	08:28:21.458	08:30:47.372	145.91400
MA	74983	23-AUG-2009	10:07:08.310	10:09:05.970	117.66000
MA	74990	23-AUG-2009	21:23:11.241	21:25:55.064	163.82300
MI	74979	23-AUG-2009	02:53:58.185	02:56:27.340	149.15500
MI	74980	23-AUG-2009	04:34:18.596	04:36:42.949	144.35300
MI	74986	23-AUG-2009	15:14:12.350	15:16:39.325	146.97500
MI	74987	23-AUG-2009	16:53:36.220	16:56:02.430	146.21000
BE	74979	23-AUG-2009	03:24:28.805	03:27:06.532	157.72700
SG	74979	23-AUG-2009	03:35:25.382	03:47:48.570	743.18800

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	74977	23-AUG-2009	00:38:01.975	00:48:55.772	653.79700
BE	74978	23-AUG-2009	01:45:58.002	01:56:45.762	647.76000
MM	74978	23-AUG-2009	02:20:28.257	02:29:15.851	527.59400
MM	74979	23-AUG-2009	04:03:32.957	04:10:04.035	391.07800
CM	74979	23-AUG-2009	02:54:50.710	03:03:19.575	508.86500
CM	74979	23-AUG-2009	04:32:03.569	04:44:00.161	716.59200
MM	74980	23-AUG-2009	05:46:05.676	05:51:58.276	352.60000
MM	74981	23-AUG-2009	07:27:19.337	07:34:58.862	459.52500
JO	74981	23-AUG-2009	07:06:18.730	07:18:53.028	754.29800
MM	74982	23-AUG-2009	09:07:49.541	09:17:48.736	599.19500
JO	74982	23-AUG-2009	08:44:15.557	08:58:53.512	877.95500
MM	74983	23-AUG-2009	10:48:00.880	10:59:42.365	701.48500
MM	74984	23-AUG-2009	12:27:58.706	12:40:31.470	752.76400
MA	74984	23-AUG-2009	11:48:56.295	11:54:34.570	338.27500
HO	74985	23-AUG-2009	14:16:36.881	14:29:24.321	767.44000
MM	74985	23-AUG-2009	14:07:42.202	14:20:25.993	763.79100
SG	74985	23-AUG-2009	14:32:04.159	14:43:51.537	707.37800
BE	74986	23-AUG-2009	14:41:20.450	14:54:19.235	778.78500

MM	74986	23-AUG-2009	15:47:09.570	15:59:45.678	756.10800
GS	74986	23-AUG-2009	15:07:59.744	15:21:08.560	788.81600
SG	74986	23-AUG-2009	16:10:46.513	16:23:21.052	754.53900
CM	74986	23-AUG-2009	15:18:21.653	15:26:52.077	510.42400
MM	74987	23-AUG-2009	17:26:22.235	17:38:53.856	751.62100
GS	74987	23-AUG-2009	16:47:22.315	17:00:33.616	791.30100
CM	74987	23-AUG-2009	16:56:00.555	17:07:51.867	711.31200
MM	74988	23-AUG-2009	19:05:30.785	19:18:09.030	758.24500
JO	74988	23-AUG-2009	19:26:22.092	19:37:40.451	678.35900
MM	74989	23-AUG-2009	20:44:55.780	20:57:39.674	763.89400
MA	74989	23-AUG-2009	19:44:18.177	19:56:44.564	746.38700
JO	74989	23-AUG-2009	21:04:08.737	21:19:00.572	891.83500
MM	74990	23-AUG-2009	22:25:00.575	22:37:26.374	745.79900
JO	74990	23-AUG-2009	22:46:48.376	22:53:00.619	372.24300
HO	74991	23-AUG-2009	23:55:08.668	00:09:38.960	870.29200

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1.5 - List of corrupted products

Station	Orbit	Time
HL	74990	22:30:10.454

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

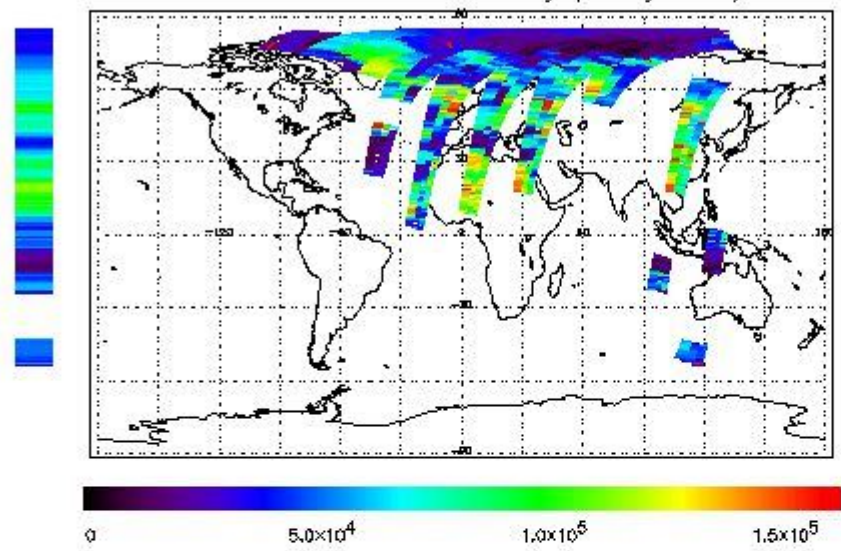
(1)

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

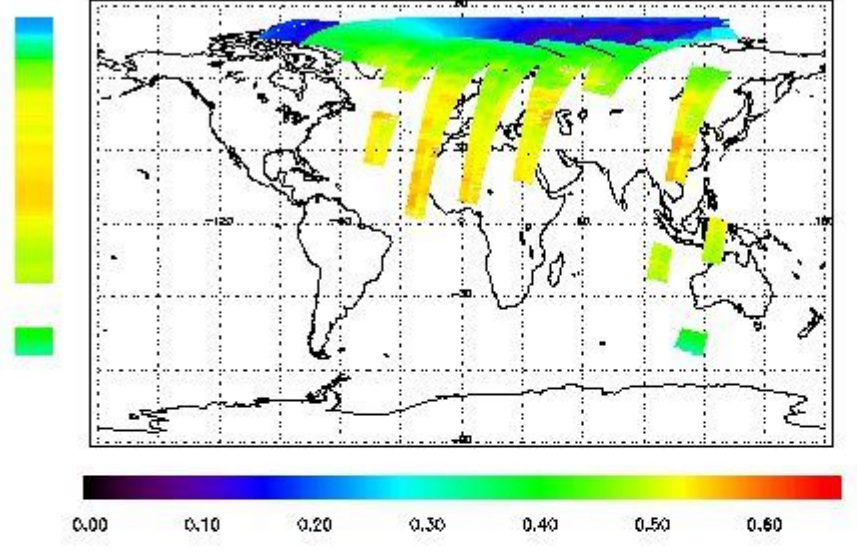
NEAR IR Intensity

778 nm Uncalibrated Intensity (Binary Units)



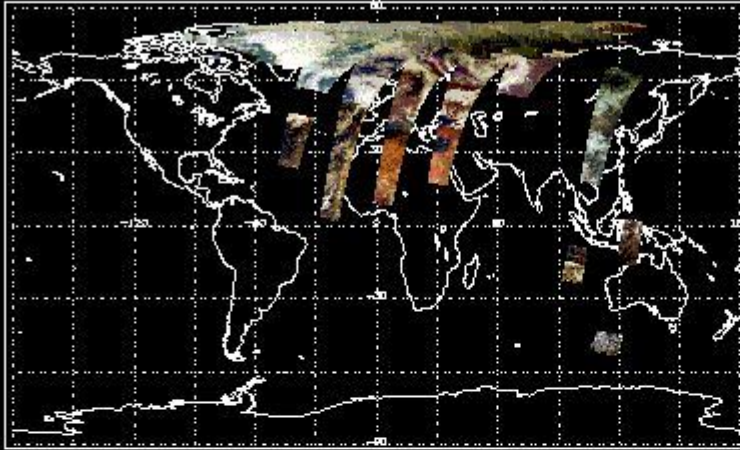
Ozone Line Ratio

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	20:00:14.044	--	74989	Y	--	14914

(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)
--	--	--	--	--	--

(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)
--	--	--	--	--

(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
--	--	--	--

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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