

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	14-Aug-2009
Start Time of First Product	00:13:46
Stop Time of Last Product	23:10:05
Number of EGOI Products analysed	39
Number of corrupted products	0
Anomalies and/or Special Operations	Narrow Swath performed as planned, start orbit 74860

1.2 - List of received products

Name	Date	Time
EGOI_090814BEEP0443.E2	14-AUG-2009	14:27:49.131
EGOI_090814GSEP6644.E2	14-AUG-2009	01:06:39.777
EGOI_090814GSEP6676.E2	14-AUG-2009	02:43:31.362
EGOI_090814GSEP6705.E2	14-AUG-2009	04:24:45.476
EGOI_090814GSEP6712.E2	14-AUG-2009	06:07:14.593
EGOI_090814HLEP3043.E2	14-AUG-2009	00:13:46.960
EGOI_090814HLEP3052.E2	14-AUG-2009	01:58:58.097
EGOI_090814HLEP3058.E2	14-AUG-2009	12:24:48.384
EGOI_090814HLEP3066.E2	14-AUG-2009	14:04:20.490

EGOI_090814HLEP3075.E2	14-AUG-2009	15:47:15.112
EGOI_090814HLEP3083.E2	14-AUG-2009	22:07:02.210
EGOI_090814KSEP3899.E2	14-AUG-2009	06:25:02.706
EGOI_090814KSEP3920.E2	14-AUG-2009	08:04:55.808
EGOI_090814KSEP3946.E2	14-AUG-2009	09:44:33.913
EGOI_090814KSEP3973.E2	14-AUG-2009	11:24:12.020
EGOI_090814KSEP4001.E2	14-AUG-2009	13:03:20.115
EGOI_090814KSEP4015.E2	14-AUG-2009	14:42:08.713
EGOI_090814KSEP4029.E2	14-AUG-2009	16:19:48.308
EGOI_090814KSEP4057.E2	14-AUG-2009	17:57:54.700
EGOI_090814KSEP4079.E2	14-AUG-2009	19:35:50.794
EGOI_090814KSEP4114.E2	14-AUG-2009	21:16:15.405
EGOI_090814KSEP4133.E2	14-AUG-2009	22:58:50.526
EGOI_090814MAEP2719.E2	14-AUG-2009	08:14:25.866
EGOI_090814MAEP2734.E2	14-AUG-2009	09:51:57.956
EGOI_090814MAEP2747.E2	14-AUG-2009	19:31:07.271
EGOI_090814MIEP6544.E2	14-AUG-2009	02:39:58.339
EGOI_090814MIEP6572.E2	14-AUG-2009	04:18:55.941
EGOI_090814MIEP6598.E2	14-AUG-2009	15:00:07.327
EGOI_090814MIEP6627.E2	14-AUG-2009	16:38:46.921
EGOI_090814MMEP7219.E2	14-AUG-2009	00:22:06.511
EGOI_090814MMEP7226.E2	14-AUG-2009	02:04:13.128
EGOI_090814MMEP7232.E2	14-AUG-2009	03:47:00.249
EGOI_090814MMEP7239.E2	14-AUG-2009	10:32:28.206
EGOI_090814MMEP7249.E2	14-AUG-2009	12:12:37.810
EGOI_090814MSEP3744.E2	14-AUG-2009	01:00:50.241
EGOI_090814MSEP3757.E2	14-AUG-2009	10:00:26.507
EGOI_090814MSEP3780.E2	14-AUG-2009	11:37:13.595
EGOI_090814MSEP3803.E2	14-AUG-2009	13:18:08.205
EGOI_090814MSEP3836.E2	14-AUG-2009	22:46:18.952

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74852	14-AUG-2009	06:23:15.385	06:25:02.706	107.32100
KS	74853	14-AUG-2009	08:02:23.343	08:04:55.807	152.46400
KS	74854	14-AUG-2009	09:42:00.121	09:44:33.913	153.79200
KS	74855	14-AUG-2009	11:21:33.405	11:24:12.020	158.61500
KS	74856	14-AUG-2009	13:00:45.564	13:03:20.115	154.55100
KS	74857	14-AUG-2009	14:39:28.863	14:42:08.712	159.84900
KS	74858	14-AUG-2009	16:17:09.058	16:19:48.308	159.25000
KS	74859	14-AUG-2009	17:55:00.885	17:57:54.700	173.81500

KS	74860	14-AUG-2009	19:33:41.381	19:35:50.794	129.41300
KS	74861	14-AUG-2009	21:14:07.334	21:16:15.404	128.07000
KS	74862	14-AUG-2009	22:56:54.809	22:58:50.526	115.71700
GS	74849	14-AUG-2009	01:04:44.471	01:06:39.776	115.30500
GS	74850	14-AUG-2009	02:41:23.554	02:43:31.361	127.80700
GS	74851	14-AUG-2009	04:22:44.875	04:24:45.476	120.60100
MS	74855	14-AUG-2009	11:34:30.472	11:37:13.595	163.12300
MS	74856	14-AUG-2009	13:15:33.701	13:18:08.204	154.50300
MS	74862	14-AUG-2009	22:43:53.332	22:46:18.952	145.62000
MA	74853	14-AUG-2009	08:11:57.013	08:14:25.865	148.85200
MA	74854	14-AUG-2009	09:50:02.639	09:51:57.955	115.31600
MA	74860	14-AUG-2009	19:27:53.329	19:31:07.270	193.94100
MI	74850	14-AUG-2009	02:37:27.824	02:39:58.339	150.51500
MI	74851	14-AUG-2009	04:16:33.628	04:18:55.941	142.31300
MI	74857	14-AUG-2009	14:57:42.110	15:00:07.326	145.21600
MI	74858	14-AUG-2009	16:36:14.692	16:38:46.921	152.22900
MM	74848	14-AUG-2009	00:20:34.516	00:22:06.511	91.995000
MM	74849	14-AUG-2009	02:02:50.678	02:04:13.128	82.450000
MM	74850	14-AUG-2009	03:45:52.485	03:47:00.249	67.764000
MM	74854	14-AUG-2009	10:30:51.347	10:32:28.205	96.858000
MM	74855	14-AUG-2009	12:10:51.471	12:12:37.809	106.33800
BE	74857	14-AUG-2009	14:24:04.912	14:27:49.131	224.21900
BE	74857	14-AUG-2009	14:29:28.141	14:37:23.842	475.70100

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
BE	74850	14-AUG-2009	03:07:23.467	03:20:47.764	804.29700
SG	74850	14-AUG-2009	03:18:25.974	03:32:16.169	830.19500
CM	74850	14-AUG-2009	02:39:34.342	02:44:54.384	320.04200
CM	74850	14-AUG-2009	04:14:49.443	04:27:11.012	741.56900
BE	74851	14-AUG-2009	04:48:11.049	04:57:04.897	533.84800
MM	74851	14-AUG-2009	05:28:36.724	05:34:23.867	347.14300
SG	74851	14-AUG-2009	05:01:03.728	05:07:40.108	396.38000
MM	74852	14-AUG-2009	07:10:02.382	07:17:18.001	435.61900
JO	74852	14-AUG-2009	06:50:14.623	07:01:17.080	662.45700

MM	74853	14-AUG-2009	08:50:37.464	09:00:14.388	576.92400
JO	74853	14-AUG-2009	08:27:02.649	08:42:00.519	897.87000
MA	74855	14-AUG-2009	11:31:18.526	11:39:02.707	464.18100
MM	74856	14-AUG-2009	13:50:37.567	14:03:21.468	763.90100
SG	74856	14-AUG-2009	14:16:00.870	14:25:59.435	598.56500
MM	74857	14-AUG-2009	15:30:07.763	15:42:45.471	757.70800
GS	74857	14-AUG-2009	14:51:10.063	15:03:36.333	746.27000
SG	74857	14-AUG-2009	15:53:22.092	16:06:46.621	804.52900
CM	74857	14-AUG-2009	15:03:02.021	15:08:00.325	298.30400
MM	74858	14-AUG-2009	17:09:22.502	17:21:54.061	751.55900
GS	74858	14-AUG-2009	16:30:13.413	16:43:49.816	816.40300
CM	74858	14-AUG-2009	16:38:48.403	16:51:07.688	739.28500
MM	74859	14-AUG-2009	18:48:30.536	19:01:07.160	756.62400
GS	74859	14-AUG-2009	18:11:04.959	18:19:22.029	497.07000
JO	74859	14-AUG-2009	19:10:25.446	19:19:16.976	531.53000
MM	74860	14-AUG-2009	20:27:50.993	20:40:34.943	763.95000
JO	74860	14-AUG-2009	20:47:04.314	21:02:05.895	901.58100
MM	74861	14-AUG-2009	22:07:47.476	22:20:19.040	751.56400
MA	74861	14-AUG-2009	21:05:56.358	21:19:16.454	800.09600
JO	74861	14-AUG-2009	22:28:28.285	22:37:51.569	563.28400
MM	74862	14-AUG-2009	23:48:39.231	00:00:17.455	698.22400

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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

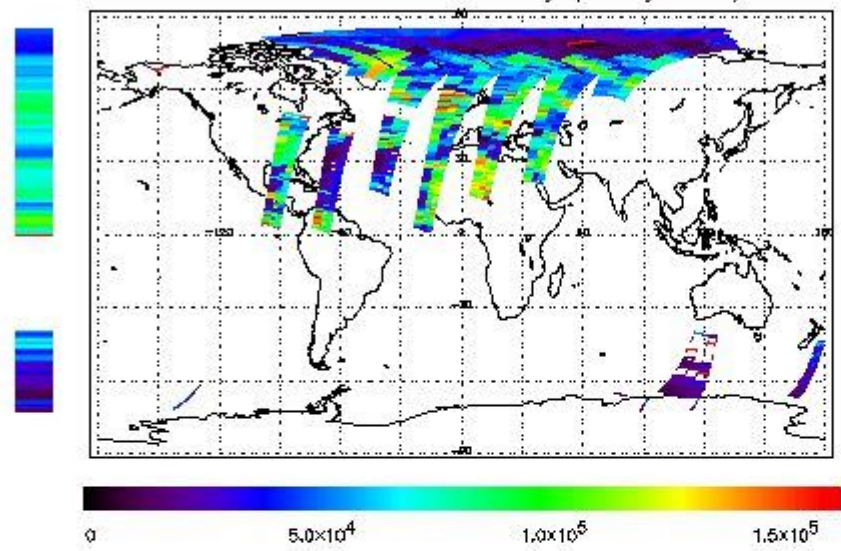
(1)

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)

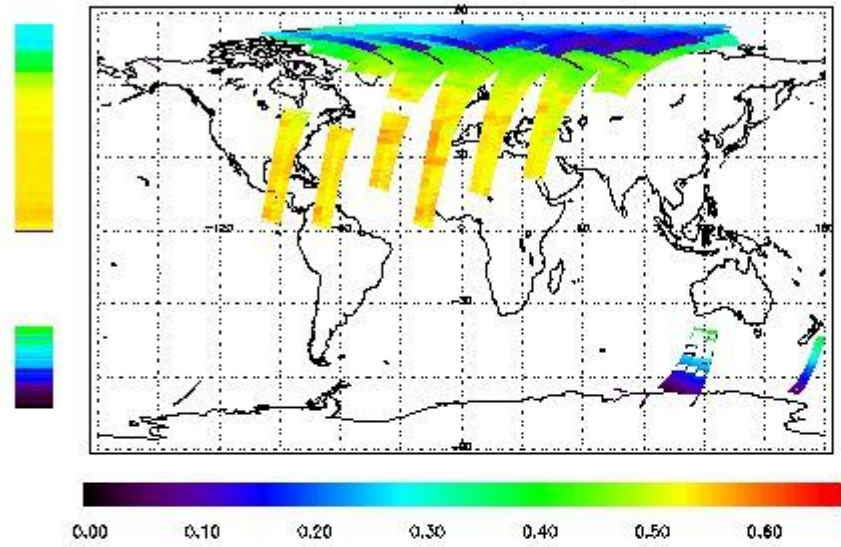


Ozone Line Ratio

First Product : 14-AUG-2009 00:13:46.960 : ORBIT : 74848.5796
Last Product : 14-AUG-2009 23:10:05.596 : ORBIT : 74862.2608
Total Products Processed : 18999 Day : 226

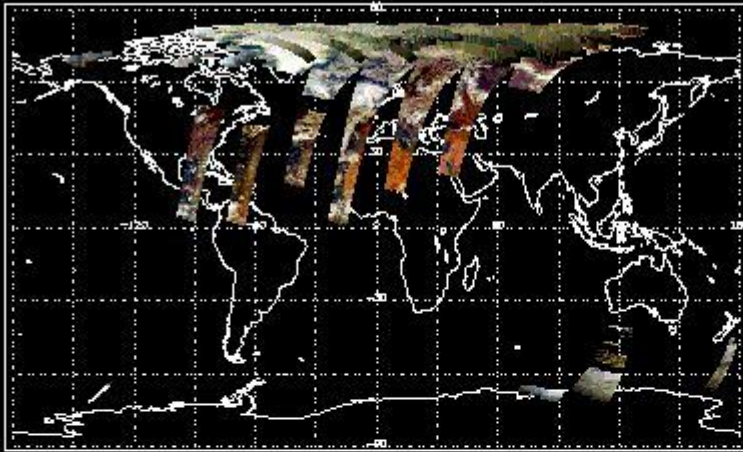
Page : 20

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	18:01:30.727	--	74859	Y	--	14886

(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)
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(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)
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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
19:30	00:00	74860	74862

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