

GOME Daily Report

INDEX

1. General Info
 - 1.1 Report Summary
 - 1.2 List of received products
 - 1.3 List of data gaps
 - 1.4 List of missing products
 - 1.5 List of corrupted products
2. Instrument Indicators and Daily Plots
 - 2.1 Instrument Indicators Status
 - 2.2 Daily Plots
3. Instrument Calibration
 - 3.1 Solar Calibration (daily/TST44)
 - 3.2 Lamp Calibration (quarterly/TST44)
4. Instrument Anomalies
 - 4.1 Single Event Upset (SEU)
 - 4.2 Instrument Off
 - 4.3 Cooler Switchings
5. Instrument Operations
 - 5.1 Timeline Interruptions
 - 5.2 TST44
 - 5.3 Power Cycle
 - 5.4 Wrong Command Execution
 - 5.5 Narrow Swath Timeline
 - 5.6 Seasonal Operations

1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	20-AUG-2009
Start Time of First Product	01:17:33
Stop Time of Last Product	23:21:28
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_090820BEEP0482.E2	20-AUG-2009	03:21:25.292
EGOI_090820GSEP7068.E2	20-AUG-2009	01:17:33.542
EGOI_090820GSEP7074.E2	20-AUG-2009	02:54:55.136
EGOI_090820GSEP7080.E2	20-AUG-2009	04:36:48.253
EGOI_090820GSEP7085.E2	20-AUG-2009	06:18:54.874
EGOI_090820KSEP5458.E2	20-AUG-2009	06:36:21.976
EGOI_090820KSEP5468.E2	20-AUG-2009	08:16:22.585
EGOI_090820KSEP5478.E2	20-AUG-2009	09:55:57.687
EGOI_090820KSEP5501.E2	20-AUG-2009	11:35:34.290

EGOI_090820KSEP5521.E2	20-AUG-2009	13:14:37.889
EGOI_090820KSEP5533.E2	20-AUG-2009	14:53:21.992
EGOI_090820KSEP5548.E2	20-AUG-2009	16:31:01.578
EGOI_090820KSEP5579.E2	20-AUG-2009	18:09:00.676
EGOI_090820KSEP5614.E2	20-AUG-2009	19:47:16.268
EGOI_090820KSEP5644.E2	20-AUG-2009	21:28:00.382
EGOI_090820KSEP5672.E2	20-AUG-2009	23:10:44.503
EGOI_090820MAEP2950.E2	20-AUG-2009	08:25:18.140
EGOI_090820MAEP2955.E2	20-AUG-2009	10:03:18.730
EGOI_090820MAEP2974.E2	20-AUG-2009	21:20:12.335
EGOI_090820MIEP7149.E2	20-AUG-2009	02:50:50.613
EGOI_090820MIEP7155.E2	20-AUG-2009	04:30:43.714
EGOI_090820MIEP7178.E2	20-AUG-2009	15:11:07.093
EGOI_090820MIEP7207.E2	20-AUG-2009	16:50:16.699
EGOI_090820MMEP7490.E2	20-AUG-2009	05:41:05.144
EGOI_090820MMEP7496.E2	20-AUG-2009	07:22:41.757
EGOI_090820MMEP7502.E2	20-AUG-2009	09:03:33.366
EGOI_090820MMEP7508.E2	20-AUG-2009	10:43:54.976
EGOI_090820MMEP7515.E2	20-AUG-2009	12:23:52.588
EGOI_090820MMEP7524.E2	20-AUG-2009	14:03:35.189
EGOI_090820MMEP7533.E2	20-AUG-2009	17:23:16.895
EGOI_090820MMEP7541.E2	20-AUG-2009	19:02:12.997
EGOI_090820MSEP4417.E2	20-AUG-2009	10:11:15.777
EGOI_090820MSEP4446.E2	20-AUG-2009	11:48:29.872
EGOI_090820MSEP4467.E2	20-AUG-2009	13:30:07.982
EGOI_090820MSEP4481.E2	20-AUG-2009	21:22:25.851
EGOI_090820MSEP4511.E2	20-AUG-2009	22:57:18.917

[[BACK TO MENU](#)]

1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74938	20-AUG-2009	06:34:30.564	06:36:21.975	111.41100
KS	74939	20-AUG-2009	08:13:45.940	08:16:22.585	156.64500
KS	74940	20-AUG-2009	09:53:23.290	09:55:57.687	154.39700
KS	74941	20-AUG-2009	11:32:55.073	11:35:34.290	159.21700
KS	74942	20-AUG-2009	13:12:03.585	13:14:37.889	154.30400
KS	74944	20-AUG-2009	16:28:22.197	16:31:01.578	159.38100
KS	74945	20-AUG-2009	18:06:09.645	18:09:00.676	171.03100
KS	74946	20-AUG-2009	19:45:04.252	19:47:16.267	132.01500
KS	74947	20-AUG-2009	21:25:44.115	21:28:00.381	136.26600
KS	74948	20-AUG-2009	23:08:51.586	23:10:44.502	112.91600
GS	74935	20-AUG-2009	01:15:32.131	01:17:33.541	121.41000

GS	74936	20-AUG-2009	02:52:43.376	02:54:55.135	131.75900
GS	74937	20-AUG-2009	04:34:45.469	04:36:48.252	122.78300
MS	74940	20-AUG-2009	10:08:38.763	10:11:15.777	157.01400
MS	74941	20-AUG-2009	11:45:49.136	11:48:29.872	160.73600
MS	74942	20-AUG-2009	13:27:40.105	13:30:07.982	147.87700
MS	74948	20-AUG-2009	22:55:06.205	22:57:18.916	132.71100
MA	74939	20-AUG-2009	08:22:51.461	08:25:18.139	146.67800
MA	74940	20-AUG-2009	10:01:25.952	10:03:18.729	112.77700
MA	74947	20-AUG-2009	21:17:25.249	21:20:12.335	167.08600
MI	74936	20-AUG-2009	02:48:26.575	02:50:50.612	144.03700
MI	74937	20-AUG-2009	04:28:21.463	04:30:43.714	142.25100
MI	74943	20-AUG-2009	15:08:40.688	15:11:07.092	146.40400
MI	74944	20-AUG-2009	16:47:48.006	16:50:16.698	148.69200
MM	74938	20-AUG-2009	07:21:33.826	07:22:41.757	67.931000
MM	74939	20-AUG-2009	09:02:05.575	09:03:33.366	87.791000
MM	74940	20-AUG-2009	10:42:17.745	10:43:54.975	97.230000
MM	74941	20-AUG-2009	12:22:16.341	12:23:52.588	96.247000
MM	74942	20-AUG-2009	14:02:00.710	14:03:35.189	94.479000
MM	74944	20-AUG-2009	17:20:42.346	17:23:16.894	154.54800
MM	74945	20-AUG-2009	18:59:50.654	19:02:12.996	142.34200
BE	74936	20-AUG-2009	03:18:46.591	03:21:25.292	158.70100

[[BACK TO MENU](#)]

1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	74934	20-AUG-2009	00:20:34.115	00:35:12.185	878.07000
MM	74934	20-AUG-2009	00:32:12.607	00:43:12.273	659.66600
HO	74935	20-AUG-2009	02:04:47.916	02:12:07.010	439.09400
MM	74935	20-AUG-2009	02:14:35.579	02:23:31.305	535.72600
MM	74936	20-AUG-2009	03:57:39.545	04:04:17.111	397.56600
SG	74936	20-AUG-2009	03:29:44.373	03:43:37.315	832.94200
CM	74936	20-AUG-2009	02:49:38.510	02:57:17.351	458.84100
CM	74936	20-AUG-2009	04:26:17.346	04:38:24.997	727.65100
JO	74938	20-AUG-2009	07:00:55.356	07:13:02.431	727.07500
JO	74939	20-AUG-2009	08:38:30.065	08:53:16.635	886.57000
MA	74941	20-AUG-2009	11:42:55.031	11:49:28.172	393.14100

BE	74942	20-AUG-2009	12:57:21.424	13:08:49.660	688.23600
SG	74942	20-AUG-2009	14:26:40.285	14:37:56.735	676.45000
BE	74943	20-AUG-2009	14:35:34.169	14:48:41.332	787.16300
MM	74943	20-AUG-2009	15:41:29.019	15:54:05.652	756.63300
KS	74943	20-AUG-2009	14:50:43.083	15:02:13.642	690.55900
GS	74943	20-AUG-2009	15:02:22.588	15:15:18.992	776.40400
SG	74943	20-AUG-2009	16:04:56.853	16:17:51.169	774.31600
CM	74943	20-AUG-2009	15:13:06.924	15:20:43.236	456.31200
GS	74944	20-AUG-2009	16:41:39.059	16:54:59.867	800.80800
CM	74944	20-AUG-2009	16:50:15.380	17:02:18.644	723.26400
GS	74945	20-AUG-2009	18:22:50.796	18:29:51.193	420.39700
JO	74945	20-AUG-2009	19:20:59.700	19:31:36.531	636.83100
MM	74946	20-AUG-2009	20:39:14.058	20:51:58.044	763.98600
MA	74946	20-AUG-2009	19:38:48.827	19:50:55.073	726.24600
JO	74946	20-AUG-2009	20:58:26.592	21:13:23.464	896.87200
HO	74947	20-AUG-2009	22:12:38.582	22:23:50.148	671.56600
MM	74947	20-AUG-2009	22:19:16.021	22:31:43.884	747.86300
JO	74947	20-AUG-2009	22:40:35.775	22:48:04.250	448.47500
HO	74948	20-AUG-2009	23:49:30.004	00:03:57.669	867.66500

[[BACK TO MENU](#)]

1.5 - List of corrupted products

Station	Orbit	Time
GS	74938	06:25:12.905
GS	74938	06:25:30.909
GS	74938	06:26:02.413
GS	74938	06:31:06.940

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

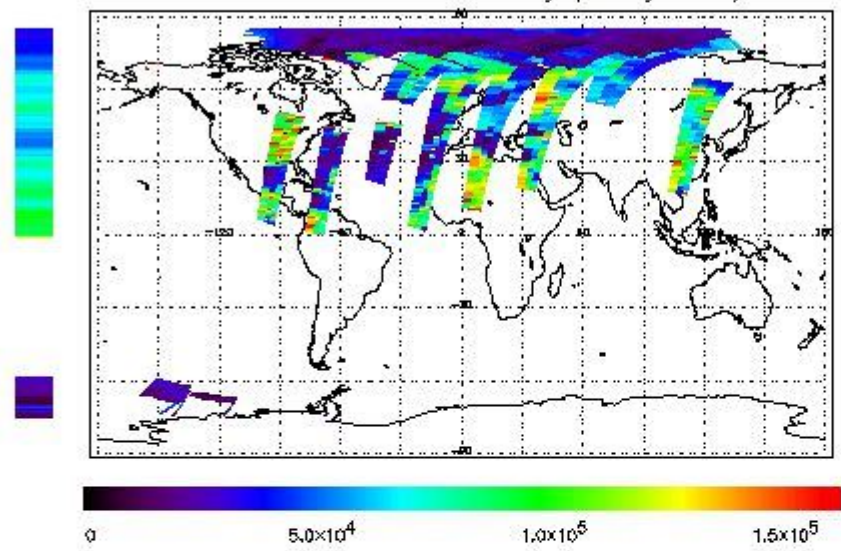
(1)

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

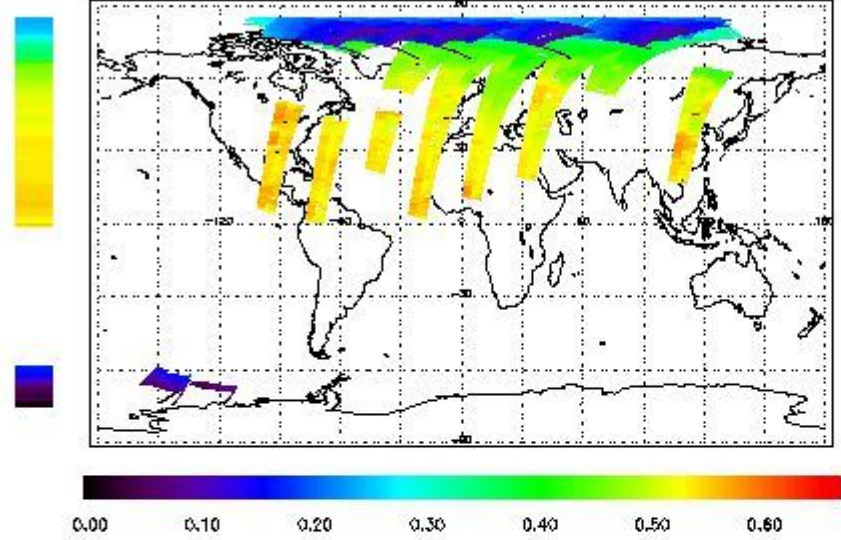
NEAR IR Intensity

778 nm Uncalibrated Intensity (Binary Units)



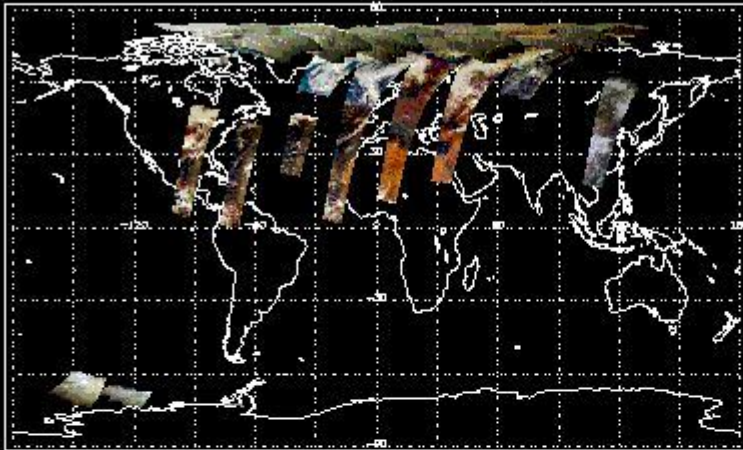
Ozone Line Ratio

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	18:13:35.190	--	74945	Y	--	14888

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

(2)(3)

[BACK TO MENU]

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
--	--	--	--	--	--	--	--	--

(2)

[BACK TO MENU]

5 - Instrument Operations

5.1 - Timeline Interruptions

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
--	--	--	--	--

(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
--	--	--	--

[[BACK TO MENU](#)]

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