

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	16-Aug-2009
Start Time of First Product	23:54:47 15-Aug-2009
Stop Time of Last Product	23:47:00 16-Aug-2009
Number of EGOI Products analysed	39
Number of corrupted products	0
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090816BEEP0450.E2	16-AUG-2009	02:08:10.908
EGOI_090816BEEP0456.E2	16-AUG-2009	03:47:22.010
EGOI_090816GSEP6802.E2	16-AUG-2009	01:42:09.252
EGOI_090816GSEP6830.E2	16-AUG-2009	03:20:26.350
EGOI_090816GSEP6840.E2	16-AUG-2009	05:03:23.971
EGOI_090816HLEP3132.E2	16-AUG-2009	00:54:47.962
EGOI_090816HLEP3138.E2	16-AUG-2009	11:23:45.781
EGOI_090816HLEP3145.E2	16-AUG-2009	13:01:32.871
EGOI_090816HLEP3154.E2	16-AUG-2009	14:41:46.984

EGOI_090816HLEP3163.E2	16-AUG-2009	22:42:01.891
EGOI_090816KSEP4407.E2	16-AUG-2009	07:01:57.692
EGOI_090816KSEP4429.E2	16-AUG-2009	08:41:55.299
EGOI_090816KSEP4454.E2	16-AUG-2009	10:21:36.404
EGOI_090816KSEP4480.E2	16-AUG-2009	12:01:07.007
EGOI_090816KSEP4499.E2	16-AUG-2009	13:40:03.105
EGOI_090816KSEP4527.E2	16-AUG-2009	15:18:41.207
EGOI_090816KSEP4548.E2	16-AUG-2009	16:56:07.295
EGOI_090816KSEP4573.E2	16-AUG-2009	18:34:03.394
EGOI_090816KSEP4607.E2	16-AUG-2009	20:12:54.987
EGOI_090816KSEP4638.E2	16-AUG-2009	21:54:03.106
EGOI_090816KSEP4665.E2	16-AUG-2009	23:37:36.728
EGOI_090816MAEP2805.E2	16-AUG-2009	08:50:23.850
EGOI_090816MAEP2815.E2	16-AUG-2009	10:29:03.447
EGOI_090816MAEP2837.E2	16-AUG-2009	20:07:11.453
EGOI_090816MIEP6739.E2	16-AUG-2009	01:42:43.756
EGOI_090816MIEP6762.E2	16-AUG-2009	03:15:57.826
EGOI_090816MIEP6787.E2	16-AUG-2009	04:57:50.935
EGOI_090816MIEP6807.E2	16-AUG-2009	15:36:20.313
EGOI_090816MIEP6833.E2	16-AUG-2009	17:16:34.420
EGOI_090816MMEP7278.E2	16-AUG-2009	00:59:56.994
EGOI_090816MMEP7284.E2	16-AUG-2009	02:42:18.619
EGOI_090816MMEP7291.E2	16-AUG-2009	04:25:01.236
EGOI_090816MMEP7298.E2	16-AUG-2009	06:07:18.360
EGOI_090816MMEP7306.E2	16-AUG-2009	07:48:41.478
EGOI_090816MSEP3961.E2	15-AUG-2009	23:54:47.603
EGOI_090816MSEP3981.E2	16-AUG-2009	10:35:48.486
EGOI_090816MSEP4004.E2	16-AUG-2009	12:14:13.085
EGOI_090816MSEP4032.E2	16-AUG-2009	21:46:01.559
EGOI_090816MSEP4064.E2	16-AUG-2009	23:22:59.146

[[BACK TO MENU](#)]

1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74881	16-AUG-2009	06:59:56.238	07:01:57.691	121.45300
KS	74882	16-AUG-2009	08:39:22.482	08:41:55.299	152.81700
KS	74883	16-AUG-2009	10:19:00.104	10:21:36.404	156.30000
KS	74884	16-AUG-2009	11:58:27.687	12:01:07.006	159.31900
KS	74885	16-AUG-2009	13:37:27.033	13:40:03.105	156.07200
KS	74886	16-AUG-2009	15:15:45.517	15:18:41.207	175.69000
KS	74887	16-AUG-2009	16:53:24.456	16:56:07.295	162.83900
KS	74888	16-AUG-2009	18:31:27.761	18:34:03.394	155.63300

KS	74889	16-AUG-2009	20:10:45.833	20:12:54.986	129.15300
KS	74890	16-AUG-2009	21:51:58.867	21:54:03.106	124.23900
KS	74891	16-AUG-2009	23:35:56.765	23:37:36.727	99.962000
GS	74878	16-AUG-2009	01:40:05.194	01:42:09.251	124.05700
GS	74879	16-AUG-2009	03:18:25.733	03:20:26.349	120.61600
MS	74877	15-AUG-2009	23:52:23.173	23:54:47.603	144.43000
MS	74883	16-AUG-2009	10:33:07.042	10:35:48.485	161.44300
MS	74884	16-AUG-2009	12:11:30.016	12:14:13.084	163.06800
MS	74891	16-AUG-2009	23:20:37.433	23:22:59.146	141.71300
MA	74882	16-AUG-2009	08:47:50.088	08:50:23.850	153.76200
MA	74883	16-AUG-2009	10:27:01.875	10:29:03.447	121.57200
MA	74889	16-AUG-2009	20:03:38.753	20:07:11.453	212.70000
MI	74879	16-AUG-2009	03:13:29.454	03:15:57.826	148.37200
MI	74880	16-AUG-2009	04:55:32.515	04:57:50.935	138.42000
MI	74886	16-AUG-2009	15:33:42.903	15:36:20.313	157.41000
MI	74887	16-AUG-2009	17:14:05.272	17:16:34.419	149.14700
MM	74877	16-AUG-2009	00:58:26.435	00:59:56.993	90.558000
MM	74878	16-AUG-2009	02:41:03.672	02:42:18.619	74.947000
MM	74881	16-AUG-2009	07:47:27.632	07:48:41.478	73.846000
BE	74878	16-AUG-2009	02:05:22.705	02:08:10.907	168.20200
BE	74879	16-AUG-2009	03:44:30.008	03:47:22.010	172.00200

[[BACK TO MENU](#)]

1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74877	16-AUG-2009	00:09:39.762	00:14:06.319	266.55700
SG	74878	16-AUG-2009	02:18:02.261	02:28:05.596	603.33500
SG	74879	16-AUG-2009	03:55:28.578	04:08:51.430	802.85200
CM	74879	16-AUG-2009	03:13:31.518	03:24:03.356	631.83800
CM	74879	16-AUG-2009	04:52:28.904	05:03:21.850	652.94600
JO	74881	16-AUG-2009	07:25:23.457	07:39:11.746	828.28900
MM	74882	16-AUG-2009	09:27:52.985	09:38:16.598	623.61300
JO	74882	16-AUG-2009	09:04:35.002	09:18:25.463	830.46100
HO	74883	16-AUG-2009	11:18:38.841	11:28:55.493	616.65200
MM	74883	16-AUG-2009	11:08:01.515	11:19:57.216	715.70100
HO	74884	16-AUG-2009	12:56:33.148	13:11:22.585	889.43700

MM	74884	16-AUG-2009	12:47:56.610	13:00:34.210	757.60000
HO	74885	16-AUG-2009	14:36:49.153	14:48:20.781	691.62800
MM	74885	16-AUG-2009	14:27:37.009	14:40:19.974	762.96500
SG	74885	16-AUG-2009	14:51:13.873	15:04:18.529	784.65600
BE	74886	16-AUG-2009	15:01:41.926	15:13:56.693	734.76700
MM	74886	16-AUG-2009	16:07:01.103	16:19:35.514	754.41100
GS	74886	16-AUG-2009	15:27:43.660	15:41:23.722	820.06200
SG	74886	16-AUG-2009	16:31:25.163	16:42:19.937	654.77400
CM	74886	16-AUG-2009	15:37:12.910	15:47:51.459	638.54900
MM	74887	16-AUG-2009	17:46:11.742	17:58:43.915	752.17300
GS	74887	16-AUG-2009	17:07:26.116	17:19:54.853	748.73700
CM	74887	16-AUG-2009	17:16:18.724	17:27:04.859	646.13500
MM	74888	16-AUG-2009	19:25:21.694	19:38:01.816	760.12200
JO	74888	16-AUG-2009	19:45:27.842	19:58:33.729	785.88700
MM	74889	16-AUG-2009	21:04:52.869	21:17:35.789	762.92000
JO	74889	16-AUG-2009	21:24:11.633	21:38:31.365	859.73200
HO	74890	16-AUG-2009	22:37:02.665	22:49:42.877	760.21200
MM	74890	16-AUG-2009	22:45:08.037	22:57:25.450	737.41300
MA	74890	16-AUG-2009	21:43:49.478	21:56:01.369	731.89100

[[BACK TO MENU](#)]

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

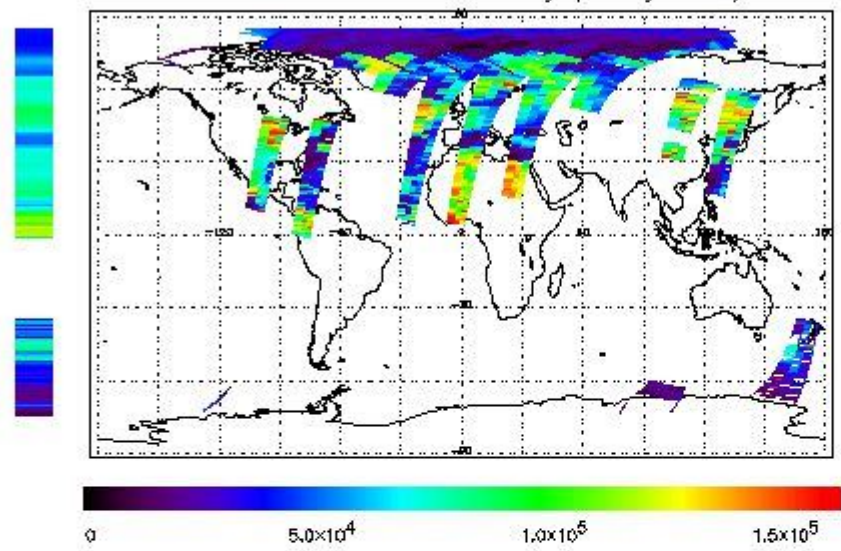
(1)

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

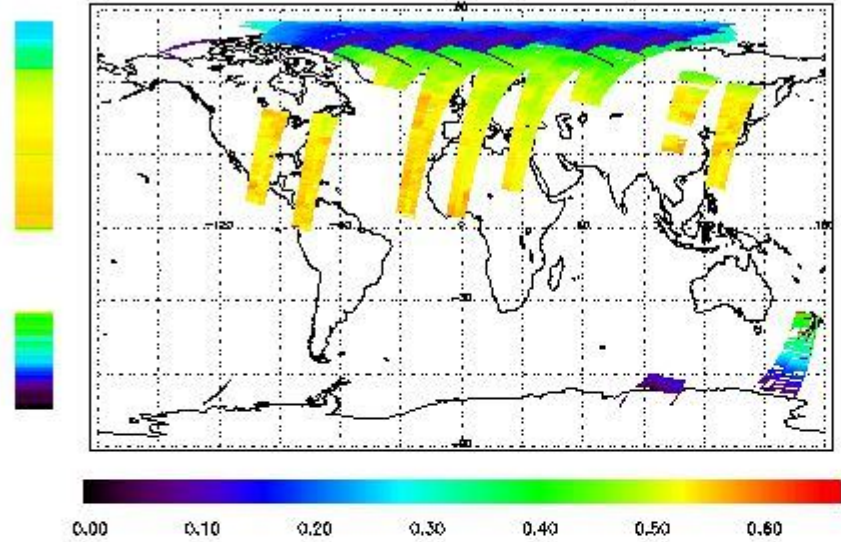
First Product : 15-AUG-2008 23:54:47.603 : ORBIT : 74877.0194

Last Product : 16-AUG-2008 23:47:00.786 : ORBIT : 74891.2564

Total Products Processed : 17799 Day : 228

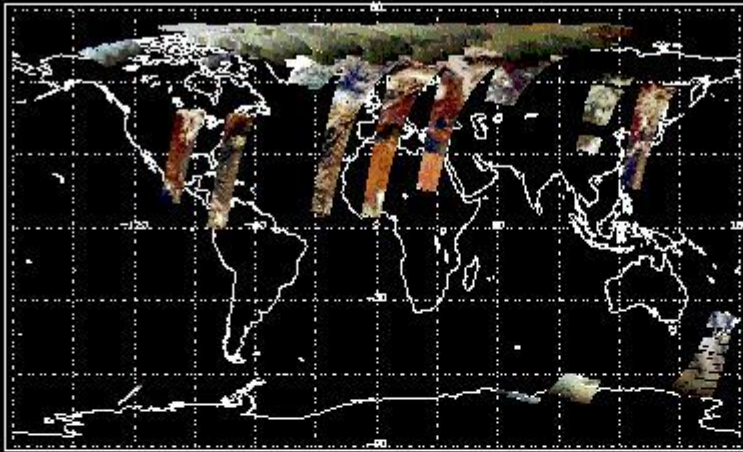
Page : 20

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	16:58:23.814	--	74887	Y	--	14849

(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)

[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)
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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)

[BACK TO MENU]

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)
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(2)

5.5 - Narrow Swath Timeline

Start Time	End Time	Start Orbit	End Orbit
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5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
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[[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