

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	11-AUG-2009
Start Time of First Product	00:16:21
Stop Time of Last Product	23:49:13
Number of EGOI Products analysed	35
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090811BEEP0408.E2	11-AUG-2009	04:44:59.906
EGOI_090811GSEP6418.E2	11-AUG-2009	01:01:15.047
EGOI_090811GSEP6450.E2	11-AUG-2009	02:37:53.133
EGOI_090811GSEP6479.E2	11-AUG-2009	04:18:46.246
EGOI_090811GSEP6487.E2	11-AUG-2009	06:01:15.371
EGOI_090811HLEP2951.E2	11-AUG-2009	01:50:22.844
EGOI_090811HLEP2961.E2	11-AUG-2009	15:40:50.391
EGOI_090811HLEP2970.E2	11-AUG-2009	23:41:33.808
EGOI_090811KSEP3064.E2	11-AUG-2009	06:19:21.480

EGOI_090811KSEP3095.E2	11-AUG-2009	07:59:14.586
EGOI_090811KSEP3119.E2	11-AUG-2009	09:38:52.692
EGOI_090811KSEP3147.E2	11-AUG-2009	11:18:27.798
EGOI_090811KSEP3167.E2	11-AUG-2009	12:57:40.401
EGOI_090811KSEP3179.E2	11-AUG-2009	14:36:30.500
EGOI_090811KSEP3204.E2	11-AUG-2009	16:14:11.594
EGOI_090811KSEP3228.E2	11-AUG-2009	17:52:13.689
EGOI_090811KSEP3264.E2	11-AUG-2009	19:30:09.784
EGOI_090811KSEP3298.E2	11-AUG-2009	21:10:25.393
EGOI_090811KSEP3309.E2	11-AUG-2009	22:53:00.516
EGOI_090811MAEP2617.E2	11-AUG-2009	09:46:21.235
EGOI_090811MAEP2624.E2	11-AUG-2009	11:26:24.841
EGOI_090811MIEP6269.E2	11-AUG-2009	02:34:29.113
EGOI_090811MIEP6290.E2	11-AUG-2009	04:13:53.719
EGOI_090811MIEP6314.E2	11-AUG-2009	14:54:38.109
EGOI_090811MIEP6342.E2	11-AUG-2009	16:33:01.203
EGOI_090811MMEP7072.E2	11-AUG-2009	00:16:20.773
EGOI_090811MMEP7078.E2	11-AUG-2009	01:58:21.394
EGOI_090811MMEP7088.E2	11-AUG-2009	10:26:43.981
EGOI_090811MMEP7096.E2	11-AUG-2009	12:07:02.591
EGOI_090811MMEP7104.E2	11-AUG-2009	13:46:31.694
EGOI_090811MMEP7112.E2	11-AUG-2009	15:26:02.305
EGOI_090811MSEP3416.E2	11-AUG-2009	00:54:43.508
EGOI_090811MSEP3432.E2	11-AUG-2009	11:31:30.872
EGOI_090811MSEP3455.E2	11-AUG-2009	13:12:14.991
EGOI_090811MSEP3482.E2	11-AUG-2009	22:40:30.437

[[BACK TO MENU](#)]

1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74809	11-AUG-2009	06:17:38.836	06:19:21.479	102.64300
KS	74810	11-AUG-2009	07:56:42.142	07:59:14.585	152.44300
KS	74811	11-AUG-2009	09:36:18.515	09:38:52.691	154.17600
KS	74812	11-AUG-2009	11:15:52.468	11:18:27.798	155.33000
KS	74813	11-AUG-2009	12:55:06.350	12:57:40.400	154.05000
KS	74814	11-AUG-2009	14:33:51.552	14:36:30.499	158.94700
KS	74815	11-AUG-2009	16:11:32.920	16:14:11.593	158.67300
KS	74816	11-AUG-2009	17:49:27.395	17:52:13.688	166.29300
KS	74817	11-AUG-2009	19:28:00.446	19:30:09.784	129.33800
KS	74818	11-AUG-2009	21:08:19.628	21:10:25.393	125.76500
KS	74819	11-AUG-2009	22:50:57.517	22:53:00.516	122.99900
GS	74806	11-AUG-2009	00:59:22.510	01:01:15.046	112.53600

GS	74807	11-AUG-2009	02:35:44.912	02:37:53.133	128.22100
GS	74808	11-AUG-2009	04:16:47.407	04:18:46.246	118.83900
MS	74812	11-AUG-2009	11:28:48.903	11:31:30.871	161.96800
MS	74813	11-AUG-2009	13:09:38.676	13:12:14.991	156.31500
MS	74819	11-AUG-2009	22:38:18.710	22:40:30.436	131.72600
MA	74811	11-AUG-2009	09:44:21.693	09:46:21.234	119.54100
MI	74807	11-AUG-2009	02:32:00.882	02:34:29.112	148.23000
MI	74807	11-AUG-2009	02:34:53.112	02:43:32.904	519.79200
MI	74808	11-AUG-2009	04:10:42.489	04:13:53.719	191.23000
MI	74814	11-AUG-2009	14:52:15.710	14:54:38.108	142.39800
MI	74815	11-AUG-2009	16:30:29.448	16:33:01.202	151.75400
MM	74805	11-AUG-2009	00:14:45.794	00:16:20.773	94.979000
MM	74806	11-AUG-2009	01:56:58.465	01:58:21.393	82.928000
MM	74811	11-AUG-2009	10:25:08.085	10:26:43.980	95.895000
MM	74812	11-AUG-2009	12:05:08.968	12:07:02.590	113.62200
MM	74813	11-AUG-2009	13:44:55.915	13:46:31.693	95.778000
MM	74814	11-AUG-2009	15:24:27.058	15:26:02.305	95.247000
BE	74808	11-AUG-2009	04:42:19.349	04:44:59.906	160.55700

[[BACK TO MENU](#)]

1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	74805	11-AUG-2009	00:03:36.680	00:18:10.304	873.62400
BE	74807	11-AUG-2009	03:01:42.568	03:15:07.688	805.12000
MM	74807	11-AUG-2009	03:39:58.874	03:46:57.545	418.67100
SG	74807	11-AUG-2009	03:12:48.617	03:26:33.744	825.12700
CM	74807	11-AUG-2009	02:34:54.762	02:38:21.305	206.54300
CM	74807	11-AUG-2009	04:09:07.664	04:21:32.309	744.64500
MM	74808	11-AUG-2009	05:22:46.471	05:28:32.955	346.48400
SG	74808	11-AUG-2009	04:54:46.130	05:02:40.346	474.21600
MM	74809	11-AUG-2009	07:04:16.430	07:11:24.345	427.91500
JO	74809	11-AUG-2009	06:44:57.803	06:55:21.825	624.02200
MM	74810	11-AUG-2009	08:44:53.315	08:54:22.571	569.25600
MA	74810	11-AUG-2009	08:06:33.523	08:16:14.156	580.63300
JO	74810	11-AUG-2009	08:21:20.668	08:36:21.353	900.68500
JO	74811	11-AUG-2009	10:05:02.945	10:12:16.293	433.34800

SG	74813	11-AUG-2009	14:10:46.577	14:19:55.729	549.15200
BE	74814	11-AUG-2009	14:18:21.871	14:31:44.318	802.44700
GS	74814	11-AUG-2009	14:45:34.826	14:56:23.625	648.79900
SG	74814	11-AUG-2009	15:47:36.802	16:01:12.179	815.37700
CM	74814	11-AUG-2009	14:58:35.378	15:01:02.734	147.35600
BE	74815	11-AUG-2009	16:02:00.164	16:08:31.294	391.13000
MM	74815	11-AUG-2009	17:03:42.544	17:16:14.168	751.62400
GS	74815	11-AUG-2009	16:24:31.018	16:38:13.528	822.51000
CM	74815	11-AUG-2009	16:33:06.538	16:45:30.047	743.50900
MM	74816	11-AUG-2009	18:42:50.537	18:55:26.639	756.10200
GS	74816	11-AUG-2009	18:05:14.209	18:14:04.352	530.14300
JO	74816	11-AUG-2009	19:05:16.277	19:12:58.634	462.35700
MM	74817	11-AUG-2009	20:22:09.643	20:34:53.473	763.83000
MA	74817	11-AUG-2009	19:24:22.865	19:33:29.826	546.96100
JO	74817	11-AUG-2009	20:41:24.194	20:56:25.440	901.24600
HO	74818	11-AUG-2009	21:56:39.673	22:06:24.229	584.55600
MM	74818	11-AUG-2009	22:02:03.479	22:14:36.686	753.20700
MA	74818	11-AUG-2009	21:00:04.102	21:13:37.209	813.10700
JO	74818	11-AUG-2009	22:22:29.863	22:32:38.838	608.97500
MM	74819	11-AUG-2009	23:42:51.702	23:54:34.333	702.63100
MA	74819	11-AUG-2009	22:45:40.978	22:50:13.001	272.02300

[[BACK TO MENU](#)]

1.5 - List of corrupted products

Station	Orbit	Time
---------	-------	------

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

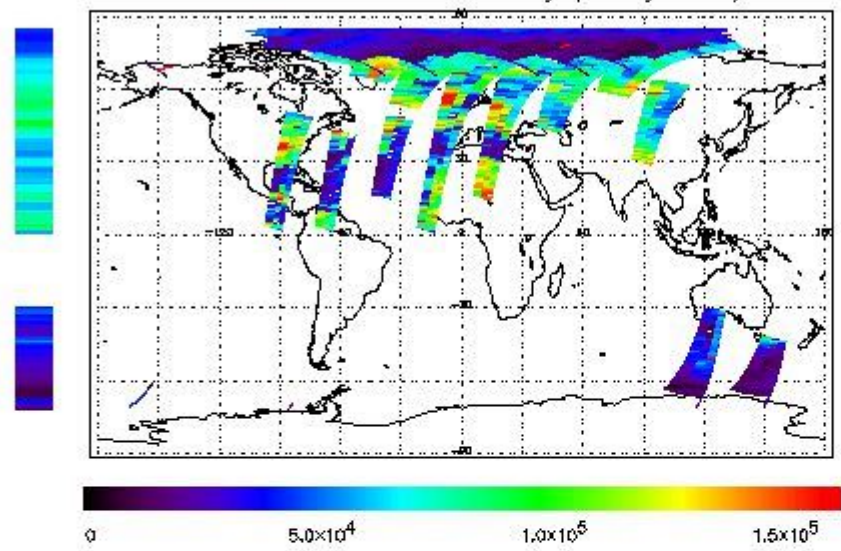
(1)

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

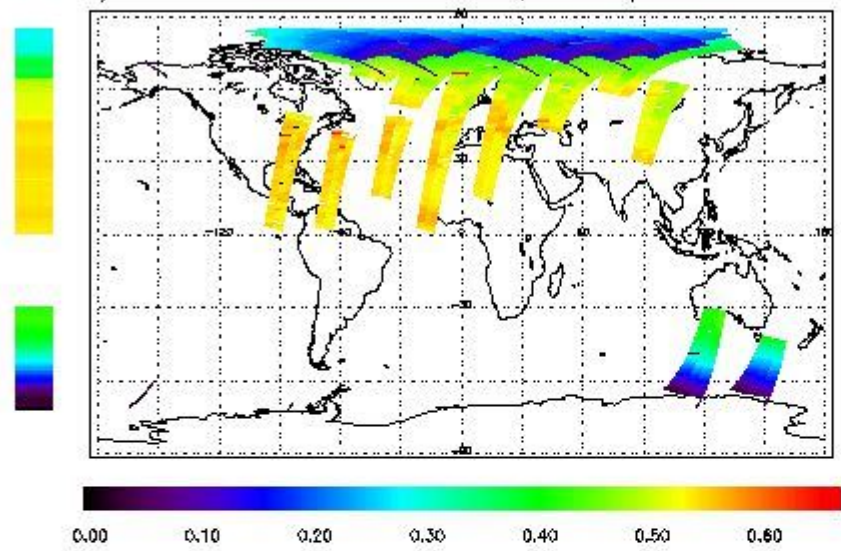
First Product : 11-AUG-2008 00:16:20.773 : ORBIT : 74805.6622

Last Product : 11-AUG-2008 23:49:12.850 : ORBIT : 74819.7068

Total Products Processed : 15912 Day : 223

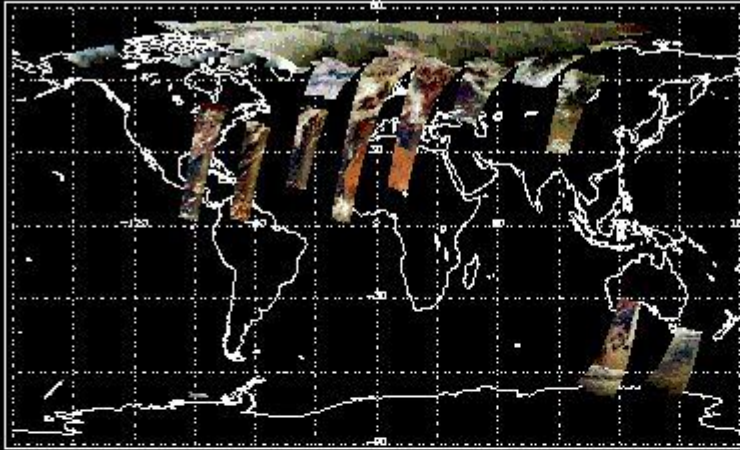
Page : 20

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	19:06:33.818	--	74817	Y	--	14828

(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