

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	05-SEP-2009
Start Time of First Product	01:14:48
Stop Time of Last Product	23:18:38
Number of EGOI Products analysed	33
Number of corrupted products	1
Anomalies and/or Special Operations	Narrow Swath continued from previous day as planned, end orbit 75175; South Polar View operations started on orbit 75164 not visible due to missing data

1.2 - List of received products

Name	Date	Time
EGOI_090905BEEP0633.E2	05-SEP-2009	03:18:34.814
EGOI_090905GSEP8117.E2	05-SEP-2009	01:14:47.564
EGOI_090905GSEP8149.E2	05-SEP-2009	02:51:54.158
EGOI_090905GSEP8177.E2	05-SEP-2009	04:33:47.271
EGOI_090905GSEP8184.E2	05-SEP-2009	06:15:56.893
EGOI_090905KSEP9650.E2	05-SEP-2009	06:33:31.494
EGOI_090905KSEP9669.E2	05-SEP-2009	08:13:27.600
EGOI_090905KSEP9692.E2	05-SEP-2009	09:53:07.206
EGOI_090905KSEP9718.E2	05-SEP-2009	11:32:45.309

EGOI_090905KSEP9750.E2	05-SEP-2009	13:11:48.912
EGOI_090905KSEP9763.E2	05-SEP-2009	14:50:34.515
EGOI_090905KSEP9785.E2	05-SEP-2009	16:28:14.106
EGOI_090905KSEP9813.E2	05-SEP-2009	18:06:14.697
EGOI_090905KSEP9848.E2	05-SEP-2009	19:44:25.796
EGOI_090905KSEP9873.E2	05-SEP-2009	21:24:54.902
EGOI_090905KSEP9901.E2	05-SEP-2009	23:07:45.024
EGOI_090905MAEP3532.E2	05-SEP-2009	08:22:32.150
EGOI_090905MAEP3547.E2	05-SEP-2009	10:00:40.249
EGOI_090905MAEP3563.E2	05-SEP-2009	21:17:18.855
EGOI_090905MIEP8416.E2	05-SEP-2009	02:48:06.135
EGOI_090905MIEP8444.E2	05-SEP-2009	04:27:47.232
EGOI_090905MIEP8470.E2	05-SEP-2009	15:08:22.616
EGOI_090905MIEP8498.E2	05-SEP-2009	16:47:27.719
EGOI_090905MSEP6225.E2	05-SEP-2009	10:08:29.796
EGOI_090905MSEP6254.E2	05-SEP-2009	11:45:42.391
EGOI_090905MSEP6277.E2	05-SEP-2009	13:27:08.505
EGOI_090905MSEP6291.E2	05-SEP-2009	21:19:38.370
EGOI_090905MSEP6322.E2	05-SEP-2009	22:54:10.446
EGOI_090905SGEP9441.E2	05-SEP-2009	01:55:01.307
EGOI_090905SGEP9448.E2	05-SEP-2009	03:35:12.412
EGOI_090905SGEP9456.E2	05-SEP-2009	05:12:06.998
EGOI_090905SGEP9462.E2	05-SEP-2009	14:26:17.862
EGOI_090905SGEP9470.E2	05-SEP-2009	16:04:48.464

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75167	05-SEP-2009	06:31:41.551	06:33:31.493	109.94200
KS	75168	05-SEP-2009	08:10:55.269	08:13:27.600	152.33100
KS	75169	05-SEP-2009	09:50:32.504	09:53:07.205	154.70100
KS	75170	05-SEP-2009	11:30:04.683	11:32:45.308	160.62500
KS	75171	05-SEP-2009	13:09:14.132	13:11:48.911	154.77900
KS	75172	05-SEP-2009	14:47:54.577	14:50:34.514	159.93700
KS	75173	05-SEP-2009	16:25:34.472	16:28:14.105	159.63300
KS	75174	05-SEP-2009	18:03:21.502	18:06:14.697	173.19500
KS	75175	05-SEP-2009	19:42:13.408	19:44:25.796	132.38800
KS	75176	05-SEP-2009	21:22:49.747	21:24:54.901	125.15400
KS	75177	05-SEP-2009	23:05:52.106	23:07:45.023	112.91700
GS	75164	05-SEP-2009	01:12:49.775	01:14:47.564	117.78900
GS	75165	05-SEP-2009	02:49:53.101	02:51:54.158	121.05700

GS	75166	05-SEP-2009	04:31:44.538	04:33:47.270	122.73200
MS	75169	05-SEP-2009	10:06:04.972	10:08:29.795	144.82300
MS	75170	05-SEP-2009	11:43:00.114	11:45:42.391	162.27700
MS	75171	05-SEP-2009	13:24:37.356	13:27:08.505	151.14900
MS	75177	05-SEP-2009	22:52:17.540	22:54:10.446	112.90600
MA	75168	05-SEP-2009	08:20:07.086	08:22:32.149	145.06300
MA	75169	05-SEP-2009	09:58:34.949	10:00:40.249	125.30000
MA	75176	05-SEP-2009	21:14:32.646	21:17:18.855	166.20900
MI	75165	05-SEP-2009	02:45:41.313	02:48:06.135	144.82200
MI	75166	05-SEP-2009	04:25:23.749	04:27:47.232	143.48300
MI	75172	05-SEP-2009	15:05:55.411	15:08:22.615	147.20400
MI	75173	05-SEP-2009	16:44:54.304	16:47:27.718	153.41400
BE	75165	05-SEP-2009	03:15:55.647	03:18:34.814	159.16700
SG	75165	05-SEP-2009	03:26:54.319	03:35:12.412	498.09300
SG	75171	05-SEP-2009	14:23:59.301	14:26:17.862	138.56100
SG	75172	05-SEP-2009	16:02:02.614	16:04:48.464	165.85000

[[BACK TO MENU](#)]

1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75163	05-SEP-2009	00:17:43.767	00:32:21.927	878.16000
MM	75163	05-SEP-2009	00:29:18.004	00:40:20.540	662.53600
HO	75164	05-SEP-2009	02:01:23.661	02:09:30.571	486.91000
MM	75164	05-SEP-2009	02:11:39.297	02:20:39.063	539.76600
MM	75165	05-SEP-2009	03:54:42.806	04:01:23.728	400.92200
CM	75165	05-SEP-2009	02:47:04.415	02:54:14.444	430.02900
CM	75165	05-SEP-2009	04:23:24.815	04:35:36.945	732.13000
BE	75166	05-SEP-2009	04:57:01.577	05:04:59.167	477.59000
MM	75166	05-SEP-2009	05:37:21.539	05:43:10.767	349.22800
MM	75167	05-SEP-2009	07:18:41.020	07:26:08.466	447.44600
JO	75167	05-SEP-2009	06:58:14.378	07:10:06.651	712.27300
MM	75168	05-SEP-2009	08:59:13.570	09:09:01.773	588.20300
JO	75168	05-SEP-2009	08:35:37.772	08:50:27.894	890.12200
MM	75169	05-SEP-2009	10:39:26.162	10:51:00.909	694.74700
HO	75170	05-SEP-2009	12:28:22.884	12:42:52.449	869.56500
MM	75170	05-SEP-2009	12:19:25.141	12:31:55.337	750.19600

MA	75170	05-SEP-2009	11:40:00.577	11:46:53.140	412.56300
HO	75171	05-SEP-2009	14:07:57.006	14:21:12.621	795.61500
MM	75171	05-SEP-2009	13:59:09.944	14:11:53.868	763.92400
BE	75172	05-SEP-2009	14:32:41.448	14:45:52.163	790.71500
MM	75172	05-SEP-2009	15:38:38.724	15:51:15.623	756.89900
GS	75172	05-SEP-2009	14:59:34.223	15:12:23.780	769.55700
CM	75172	05-SEP-2009	15:10:31.854	15:17:36.436	424.58200
MM	75173	05-SEP-2009	17:17:52.392	17:30:23.934	751.54200
GS	75173	05-SEP-2009	16:38:47.540	16:52:12.672	805.13200
CM	75173	05-SEP-2009	16:47:23.222	16:59:31.458	728.23600
MM	75174	05-SEP-2009	18:57:00.607	19:09:38.036	757.42900
GS	75174	05-SEP-2009	18:19:53.671	18:27:14.798	441.12700
JO	75174	05-SEP-2009	19:18:19.645	19:28:33.283	613.63800
MM	75175	05-SEP-2009	20:36:23.246	20:49:07.249	764.00300
MA	75175	05-SEP-2009	19:36:04.545	19:48:01.386	716.84100
JO	75175	05-SEP-2009	20:55:35.771	21:10:34.490	898.71900
HO	75176	05-SEP-2009	22:09:58.010	22:20:56.318	658.30800
MM	75176	05-SEP-2009	22:16:23.816	22:28:52.656	748.84000
JO	75176	05-SEP-2009	22:37:32.162	22:45:33.096	480.93400
HO	75177	05-SEP-2009	23:46:41.146	00:01:06.907	865.76100
MM	75177	05-SEP-2009	23:57:20.931	00:08:52.221	691.29000

[[BACK TO MENU](#)]

1.5 - List of corrupted products

Station	Orbit	Time
MA	75175	21:17:20.354

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

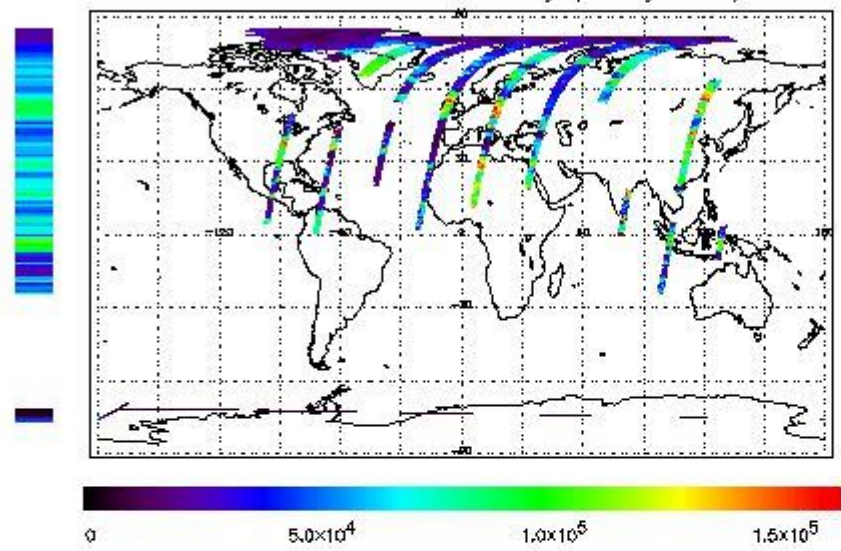
First Product : 05-SEP-2009 01:14:47.564 : ORBIT : 75164.1004

Last Product : 05-SEP-2009 23:18:37.590 : ORBIT : 75177.2599

Total Products Processed : 15271 Day : 248

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778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

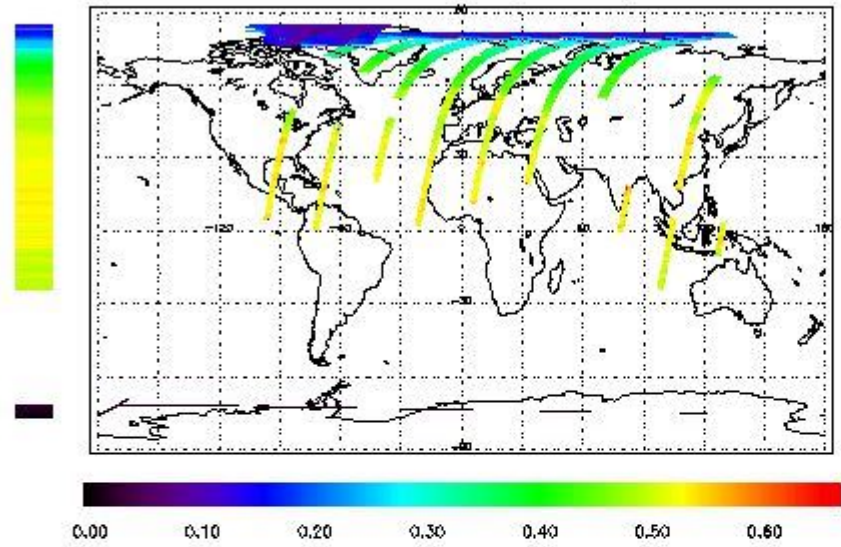
First Product : 05-SEP-2009 01:14:47.564 : ORBIT : 75164.1004

Last Product : 05-SEP-2009 23:18:37.590 : ORBIT : 75177.2599

Total Products Processed : 15271 Day : 248

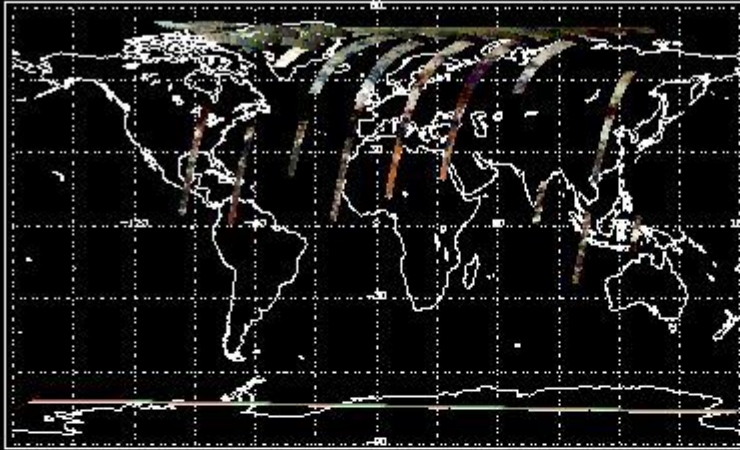
Page : 20

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	19:53:01.840	--	75175	Y	--	14989

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

(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)

[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
18:30 (04-SEP)	75160	19:00	75175

5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
01:00	--	75164	--

[[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