

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	28-Oct-2009
Start Time of First Product	00:00:36
Stop Time of Last Product	23:52:37
Number of EGOI Products analysed	40
Number of corrupted products	--
Anomalies and/or Special Operations	Quarterly calibration operated during orbits 75930 - 75935

1.2 - List of received products

Name	Date	Time
EGOI_091028BEEP1037.E2	28-OCT-2009	15:10:01.053
EGOI_091028GSEP1713.E2	28-OCT-2009	01:47:30.619
EGOI_091028GSEP1740.E2	28-OCT-2009	03:26:11.726
EGOI_091028GSEP1748.E2	28-OCT-2009	05:09:00.362
EGOI_091028KSEP3576.E2	28-OCT-2009	07:07:35.585
EGOI_091028KSEP3593.E2	28-OCT-2009	08:47:34.700
EGOI_091028KSEP3613.E2	28-OCT-2009	10:27:15.812
EGOI_091028KSEP3645.E2	28-OCT-2009	12:06:41.924
EGOI_091028KSEP3661.E2	28-OCT-2009	13:45:41.035

EGOI_091028KSEP3689.E2	28-OCT-2009	15:24:11.643
EGOI_091028KSEP3706.E2	28-OCT-2009	17:01:37.743
EGOI_091028KSEP3740.E2	28-OCT-2009	18:39:35.350
EGOI_091028KSEP3770.E2	28-OCT-2009	20:18:31.462
EGOI_091028KSEP3801.E2	28-OCT-2009	21:59:54.585
EGOI_091028KSEP3825.E2	28-OCT-2009	23:43:49.227
EGOI_091028MAEP5363.E2	28-OCT-2009	08:54:57.243
EGOI_091028MAEP5373.E2	28-OCT-2009	10:34:42.858
EGOI_091028MAEP5393.E2	28-OCT-2009	20:11:49.419
EGOI_091028MIEP2688.E2	28-OCT-2009	01:47:17.119
EGOI_091028MIEP2711.E2	28-OCT-2009	03:21:28.203
EGOI_091028MIEP2733.E2	28-OCT-2009	05:04:01.833
EGOI_091028MIEP2751.E2	28-OCT-2009	15:41:43.249
EGOI_091028MIEP2777.E2	28-OCT-2009	17:22:25.868
EGOI_091028MMEP0351.E2	28-OCT-2009	01:05:43.860
EGOI_091028MMEP0357.E2	28-OCT-2009	04:30:51.122
EGOI_091028MMEP0364.E2	28-OCT-2009	06:13:03.752
EGOI_091028MMEP0374.E2	28-OCT-2009	12:55:12.222
EGOI_091028MMEP0383.E2	28-OCT-2009	14:34:41.333
EGOI_091028MMEP0392.E2	28-OCT-2009	17:54:36.564
EGOI_091028MMEP0399.E2	28-OCT-2009	21:12:34.795
EGOI_091028MMEP0409.E2	28-OCT-2009	22:52:33.910
EGOI_091028MSEP2102.E2	28-OCT-2009	00:00:35.965
EGOI_091028MSEP2123.E2	28-OCT-2009	10:41:24.901
EGOI_091028MSEP2151.E2	28-OCT-2009	12:19:57.007
EGOI_091028MSEP2179.E2	28-OCT-2009	21:51:20.030
EGOI_091028MSEP2210.E2	28-OCT-2009	23:28:46.137
EGOI_091028SGEP0770.E2	28-OCT-2009	02:33:54.909
EGOI_091028SGEP0777.E2	28-OCT-2009	04:12:07.508
EGOI_091028SGEP0784.E2	28-OCT-2009	14:59:15.990
EGOI_091028SGEP0791.E2	28-OCT-2009	16:40:18.109

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75926	28-OCT-2009	07:05:36.098	07:07:35.585	119.48700
KS	75927	28-OCT-2009	08:45:04.030	08:47:34.700	150.67000
KS	75928	28-OCT-2009	10:24:41.538	10:27:15.811	154.27300
KS	75929	28-OCT-2009	12:04:08.028	12:06:41.923	153.89500
KS	75930	28-OCT-2009	13:43:05.162	13:45:41.034	155.87200
KS	75931	28-OCT-2009	15:21:17.209	15:24:11.643	174.43400
KS	75932	28-OCT-2009	16:58:59.509	17:01:37.743	158.23400
KS	75933	28-OCT-2009	18:37:05.778	18:39:35.350	149.57200

KS	75934	28-OCT-2009	20:16:29.416	20:18:31.461	122.04500
KS	75935	28-OCT-2009	21:57:50.193	21:59:54.585	124.39200
KS	75936	28-OCT-2009	23:42:00.774	23:43:49.227	108.45300
GS	75923	28-OCT-2009	01:45:35.224	01:47:30.618	115.39400
GS	75924	28-OCT-2009	03:24:10.991	03:26:11.726	120.73500
MS	75922	27-OCT-2009	23:58:14.330	00:00:35.964	141.63400
MS	75928	28-OCT-2009	10:38:37.293	10:41:24.900	167.60700
MS	75929	28-OCT-2009	12:17:16.658	12:19:57.007	160.34900
MS	75935	28-OCT-2009	21:49:11.632	21:51:20.029	128.39700
MS	75936	28-OCT-2009	23:26:20.991	23:28:46.136	145.14500
MA	75928	28-OCT-2009	10:32:42.186	10:34:42.858	120.67200
MA	75934	28-OCT-2009	20:09:12.496	20:11:49.419	156.92300
MI	75923	28-OCT-2009	01:45:14.919	01:47:17.118	122.19900
MI	75924	28-OCT-2009	03:19:06.985	03:21:28.203	141.21800
MI	75925	28-OCT-2009	05:01:47.049	05:04:01.833	134.78400
MI	75931	28-OCT-2009	15:39:19.715	15:41:43.248	143.53300
MI	75932	28-OCT-2009	17:20:00.268	17:22:25.868	145.60000
MM	75922	28-OCT-2009	01:04:16.751	01:05:43.860	87.109000
MM	75929	28-OCT-2009	12:53:38.761	12:55:12.221	93.460000
MM	75930	28-OCT-2009	14:33:18.261	14:34:41.333	83.072000
MM	75932	28-OCT-2009	17:51:51.582	17:54:36.564	164.98200
MM	75934	28-OCT-2009	21:10:35.216	21:12:34.795	119.57900
MM	75935	28-OCT-2009	22:50:53.472	22:52:33.910	100.43800
BE	75931	28-OCT-2009	15:07:33.916	15:10:01.052	147.13600
BE	75931	28-OCT-2009	15:13:26.571	15:19:31.354	364.78300
SG	75923	28-OCT-2009	02:23:20.995	02:33:54.908	633.91300
SG	75924	28-OCT-2009	04:01:15.267	04:12:07.507	652.24000
SG	75930	28-OCT-2009	14:56:46.181	14:59:15.989	149.80800
SG	75931	28-OCT-2009	16:37:24.527	16:40:18.108	173.58100

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75922	28-OCT-2009	00:52:26.334	01:06:12.443	826.10900
MS	75922	27-OCT-2009	23:58:14.330	00:10:28.139	733.80900
KS	75922	28-OCT-2009	00:15:56.863	00:19:32.903	216.04000

BE	75923	28-OCT-2009	02:10:57.737	02:23:19.356	741.61900
MM	75923	28-OCT-2009	02:46:56.907	02:55:07.404	490.49700
BE	75924	28-OCT-2009	03:50:14.233	04:02:46.704	752.47100
CM	75924	28-OCT-2009	03:18:57.505	03:29:54.054	656.54900
CM	75924	28-OCT-2009	04:58:23.555	05:08:49.795	626.24000
MM	75926	28-OCT-2009	07:53:12.606	08:01:29.163	496.55700
JO	75926	28-OCT-2009	07:30:53.767	07:44:57.938	844.17100
MM	75927	28-OCT-2009	09:33:36.709	09:44:06.962	630.25300
JO	75927	28-OCT-2009	09:10:26.653	09:23:57.944	811.29100
HO	75928	28-OCT-2009	11:24:03.948	11:35:02.760	658.81200
MM	75928	28-OCT-2009	11:13:44.457	11:25:43.837	719.38000
HO	75929	28-OCT-2009	13:02:13.507	13:17:02.596	889.08900
HO	75930	28-OCT-2009	14:42:36.688	14:53:07.054	630.36600
GS	75930	28-OCT-2009	13:56:17.563	14:03:15.775	418.21200
MM	75931	28-OCT-2009	16:12:41.432	16:25:15.410	753.97800
GS	75931	28-OCT-2009	15:33:22.883	15:47:08.692	825.80900
CM	75931	28-OCT-2009	15:42:41.745	15:53:45.108	663.36300
GS	75932	28-OCT-2009	17:13:10.800	17:25:24.601	733.80100
CM	75932	28-OCT-2009	17:22:10.175	17:32:29.889	619.71400
MM	75933	28-OCT-2009	19:31:02.104	19:43:42.735	760.63100
JO	75933	28-OCT-2009	19:50:58.880	20:04:27.261	808.38100
JO	75934	28-OCT-2009	21:29:56.935	21:44:03.155	846.22000
HO	75935	28-OCT-2009	22:42:32.184	22:55:26.469	774.28500
MA	75935	28-OCT-2009	21:49:57.482	22:01:35.403	697.92100
JO	75934	28-OCT-2009	21:29:56.935	21:44:03.155	846.22000
HO	75935	28-OCT-2009	22:42:32.184	22:55:26.469	774.28500
MA	75935	28-OCT-2009	21:49:57.482	22:01:35.403	697.92100

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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	South Polar View operations
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

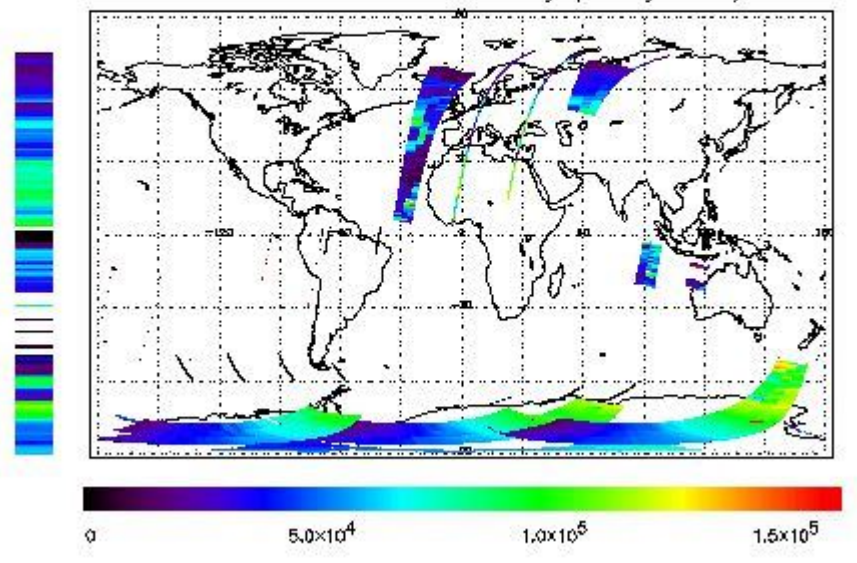
2.2 - Daily Plots

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 : 28-OCT-2009 00:00:35.965 : ORBIT : 75922.0200
Last Product : 28-OCT-2009 23:52:37.281 : ORBIT : 75936.2550
Total Products Processed : 18584 Day : 301

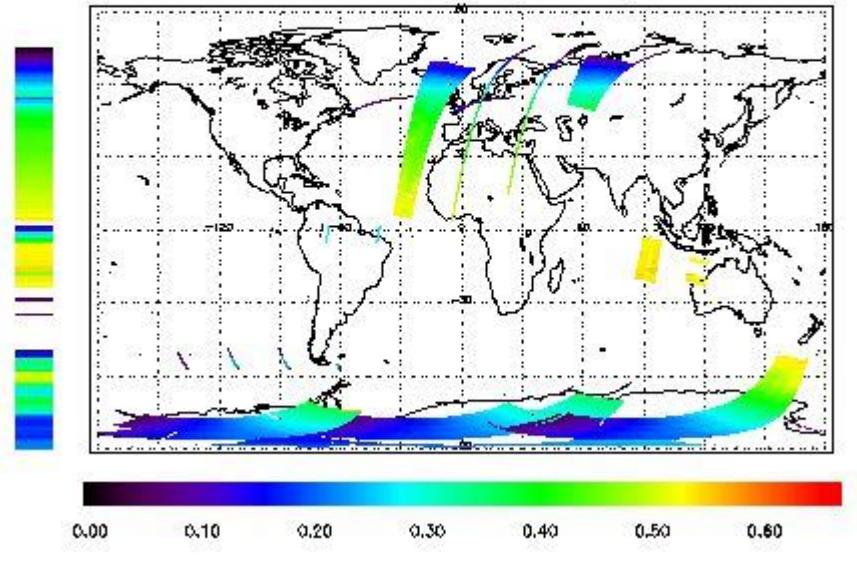
778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

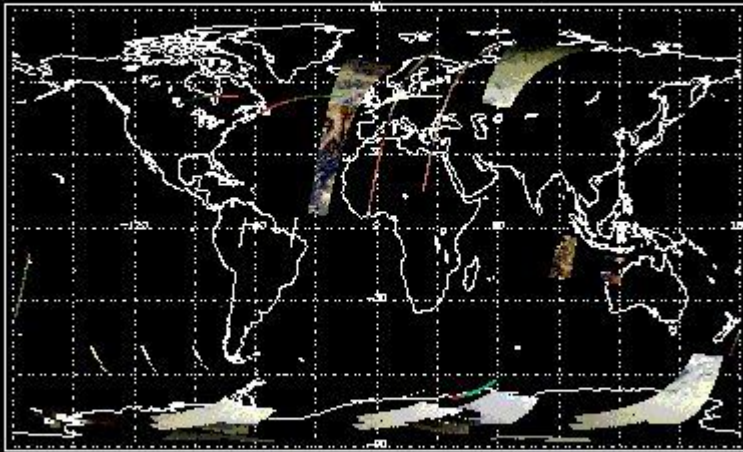
First Product : 28-OCT-2009 00:00:35.965 : ORBIT : 75922.0200
Last Product : 28-OCT-2009 23:52:37.281 : ORBIT : 75936.2550
Total Products Processed : 18584 Day : 301

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	Warm Detector Temperature (TST/44)	Max PMD Readout during solar calibration (BU set 2/12)
D	12:10:31.440	--	75929	Yes	--	15503

3.2 - Lamp Calibration (Quarterly/TST44)

Quarterly(Q)/TST44(T)	Start Time	End Time	Orbit	Ground Station Visibility	Warm Detector Temperature (TST/44)	Lamp Instability Voltage (if any)(V)	Lamp Failure N. (if any)
Q	13:53:22	13:58:05	75930	No End	--	--	251
Q	14:36:26	14:46:19	75930	Yes	--	--	--
Q	15:02:57	15:04:57	75930	Yes	--	--	--
Q	15:34:03	15:35:49	75931	Yes	--	--	--
Q	16:43:33	16:45:33	75931	Yes	--	--	--
Q	17:01:38	17:02:18	75932	No Start	--	--	--
Q	17:22:26	17:24:35	75932	No Start	--	temp_jump_177	--
Q	17:57:40	18:07:07	75932	No End	--	--	--
Q	18:40:52	18:42:56	75933	No Start	--	--	--
Q	20:21:28	20:23:33	75934	Yes	--	--	--
Q	21:18:53	21:26:00	75934	No End	--	--	--
Q	22:01:59	22:04:10	75935	Yes	--	dropdown_to_180	--

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4 - Instrument Anomalies

4.1 - Single Event Upset (SEU)

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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4.2 - Instrument Off

Start Time	End Time	Start Orbit	End Orbit	MPS Resumption	Ground Station Visibility
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4.3 - Cooler Switchings

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility	Max Temp. Ch 1	Max Temp. Ch 2	Max Temp. Ch 3	Max Temp. Ch 4
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5 - Instrument Operations

[Additional Info](#)

5.1 - Timeline Interruptions

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
08:30	11:00	75927	75928	Yes

5.2 - TST44

Start Time	Start Orbit	Ground Station Visibility
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5.3 - Power Cycle

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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5.4 - Wrong Command Execution

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility
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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
01:00 05-Sep	--	75164	--

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(1) The 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