

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	23-SEP-2009
Start Time of First Product	00:00:35
Stop Time of Last Product	23:52:40
Number of EGOI Products analysed	38
Number of corrupted products	--
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090923BEEP0747.E2	23-SEP-2009	02:13:44.586
EGOI_090923BEEP0753.E2	23-SEP-2009	03:52:54.191
EGOI_090923GSEP9251.E2	23-SEP-2009	01:47:29.429
EGOI_090923GSEP9279.E2	23-SEP-2009	03:26:13.531
EGOI_090923GSEP9289.E2	23-SEP-2009	05:09:03.652
EGOI_090923KSEP4053.E2	23-SEP-2009	07:07:38.875
EGOI_090923KSEP4075.E2	23-SEP-2009	08:47:37.986
EGOI_090923KSEP4100.E2	23-SEP-2009	10:27:19.092
EGOI_090923KSEP4129.E2	23-SEP-2009	12:06:45.195

EGOI_090923KSEP4150.E2	23-SEP-2009	13:45:42.797
EGOI_090923KSEP4178.E2	23-SEP-2009	15:24:14.901
EGOI_090923KSEP4200.E2	23-SEP-2009	17:01:40.997
EGOI_090923KSEP4233.E2	23-SEP-2009	18:39:38.588
EGOI_090923KSEP4263.E2	23-SEP-2009	20:18:36.190
EGOI_090923KSEP4294.E2	23-SEP-2009	21:59:57.813
EGOI_090923KSEP4319.E2	23-SEP-2009	23:43:53.943
EGOI_090923MAEP4160.E2	23-SEP-2009	10:34:50.639
EGOI_090923MAEP4179.E2	23-SEP-2009	20:12:07.650
EGOI_090923MIEP9701.E2	23-SEP-2009	01:47:18.925
EGOI_090923MIEP9725.E2	23-SEP-2009	03:21:39.004
EGOI_090923MIEP9747.E2	23-SEP-2009	05:04:05.121
EGOI_090923MIEP9767.E2	23-SEP-2009	15:41:48.005
EGOI_090923MIEP9792.E2	23-SEP-2009	17:22:26.118
EGOI_090923MMEP8639.E2	23-SEP-2009	01:05:50.175
EGOI_090923MMEP8644.E2	23-SEP-2009	02:48:14.797
EGOI_090923MMEP8656.E2	23-SEP-2009	11:15:16.383
EGOI_090923MMEP8664.E2	23-SEP-2009	12:55:16.992
EGOI_090923MMEP8673.E2	23-SEP-2009	14:34:47.598
EGOI_090923MMEP8680.E2	23-SEP-2009	16:14:36.210
EGOI_090923MSEP8171.E2	23-SEP-2009	00:00:34.780
EGOI_090923MSEP8193.E2	23-SEP-2009	10:41:20.678
EGOI_090923MSEP8221.E2	23-SEP-2009	12:20:00.277
EGOI_090923MSEP8250.E2	23-SEP-2009	21:51:14.255
EGOI_090923MSEP8281.E2	23-SEP-2009	23:28:50.853
EGOI_090923SGEP9884.E2	23-SEP-2009	02:25:17.656
EGOI_090923SGEP9892.E2	23-SEP-2009	04:03:40.754
EGOI_090923SGEP9900.E2	23-SEP-2009	14:59:19.250
EGOI_090923SGEP9908.E2	23-SEP-2009	16:40:24.362

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75425	23-SEP-2009	07:05:36.098	07:07:38.874	122.77600
KS	75426	23-SEP-2009	08:45:04.030	08:47:37.985	153.95500
KS	75427	23-SEP-2009	10:24:41.538	10:27:19.092	157.55400
KS	75428	23-SEP-2009	12:04:08.028	12:06:45.195	157.16700
KS	75429	23-SEP-2009	13:43:05.162	13:45:42.797	157.63500
KS	75430	23-SEP-2009	15:21:17.209	15:24:14.901	177.69200
KS	75431	23-SEP-2009	16:58:59.508	17:01:40.997	161.48900
KS	75432	23-SEP-2009	18:37:05.778	18:39:38.587	152.80900
KS	75433	23-SEP-2009	20:16:29.416	20:18:36.189	126.77300

KS	75434	23-SEP-2009	21:57:50.193	21:59:57.813	127.62000
KS	75435	23-SEP-2009	23:42:00.774	23:43:53.942	113.16800
GS	75422	23-SEP-2009	01:45:35.224	01:47:29.428	114.20400
GS	75423	23-SEP-2009	03:24:10.991	03:26:13.531	122.54000
MS	75421	22-SEP-2009	23:58:14.330	00:00:34.779	140.44900
MS	75427	23-SEP-2009	10:38:37.293	10:41:20.677	163.38400
MS	75428	23-SEP-2009	12:17:16.658	12:20:00.276	163.61800
MS	75434	23-SEP-2009	21:49:11.632	21:51:14.254	122.62200
MS	75435	23-SEP-2009	23:26:20.991	23:28:50.853	149.86200
MA	75427	23-SEP-2009	10:32:42.186	10:34:50.639	128.45300
MA	75433	23-SEP-2009	20:09:12.496	20:12:07.650	175.15400
MI	75422	23-SEP-2009	01:45:14.919	01:47:18.925	124.00600
MI	75423	23-SEP-2009	03:19:06.985	03:21:39.004	152.01900
MI	75424	23-SEP-2009	05:01:47.048	05:04:05.120	138.07200
MI	75430	23-SEP-2009	15:39:19.715	15:41:48.004	148.28900
MI	75431	23-SEP-2009	17:20:00.267	17:22:26.117	145.85000
MM	75421	23-SEP-2009	01:04:16.751	01:05:50.174	93.423000
MM	75422	23-SEP-2009	02:46:56.907	02:48:14.796	77.889000
MM	75427	23-SEP-2009	11:13:44.457	11:15:16.382	91.925000
MM	75428	23-SEP-2009	12:53:38.761	12:55:16.991	98.230000
MM	75429	23-SEP-2009	14:33:18.261	14:34:47.598	89.337000
MM	75430	23-SEP-2009	16:12:41.432	16:14:36.209	114.77700
BE	75422	23-SEP-2009	02:10:57.737	02:13:44.585	166.84800
BE	75423	23-SEP-2009	03:50:14.233	03:52:54.191	159.95800
SG	75422	23-SEP-2009	02:23:20.995	02:25:17.655	116.66000
SG	75423	23-SEP-2009	04:01:15.267	04:03:40.754	145.48700
SG	75429	23-SEP-2009	14:56:46.181	14:59:19.250	153.06900
SG	75430	23-SEP-2009	16:37:24.527	16:40:24.361	179.83400

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	75421	23-SEP-2009	00:52:26.334	01:06:12.443	826.10900
KS	75421	23-SEP-2009	00:15:56.863	00:19:32.903	216.04000
MM	75423	23-SEP-2009	04:30:01.742	04:36:08.074	366.33200
CM	75423	23-SEP-2009	03:18:57.505	03:29:54.054	656.54900

CM	75423	23-SEP-2009	04:58:23.555	05:08:49.795	626.24000
MM	75424	23-SEP-2009	06:12:14.185	06:18:23.995	369.81000
MM	75425	23-SEP-2009	07:53:12.606	08:01:29.163	496.55700
JO	75425	23-SEP-2009	07:30:53.767	07:44:57.938	844.17100
MM	75426	23-SEP-2009	09:33:36.709	09:44:06.962	630.25300
MA	75426	23-SEP-2009	08:54:11.252	09:06:36.101	744.84900
JO	75426	23-SEP-2009	09:10:26.653	09:23:57.944	811.29100
HO	75427	23-SEP-2009	11:24:03.948	11:35:02.760	658.81200
HO	75428	23-SEP-2009	13:02:13.507	13:17:02.596	889.08900
HO	75429	23-SEP-2009	14:42:36.688	14:53:07.054	630.36600
GS	75429	23-SEP-2009	13:56:17.563	14:03:15.775	418.21200
BE	75430	23-SEP-2009	15:07:33.916	15:19:31.354	717.43800
GS	75430	23-SEP-2009	15:33:22.883	15:47:08.692	825.80900
CM	75430	23-SEP-2009	15:42:41.745	15:53:45.108	663.36300
MM	75431	23-SEP-2009	17:51:51.581	18:04:24.005	752.42400
GS	75431	23-SEP-2009	17:13:10.799	17:25:24.600	733.80100
CM	75431	23-SEP-2009	17:22:10.174	17:32:29.888	619.71400
MM	75432	23-SEP-2009	19:31:02.104	19:43:42.735	760.63100
JO	75432	23-SEP-2009	19:50:58.880	20:04:27.261	808.38100
MM	75433	23-SEP-2009	21:10:35.216	21:23:17.654	762.43800
JO	75433	23-SEP-2009	21:29:56.935	21:44:03.155	846.22000
HO	75434	23-SEP-2009	22:42:32.184	22:55:26.469	774.28500
MM	75434	23-SEP-2009	22:50:53.472	23:03:08.144	734.67200
MA	75434	23-SEP-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

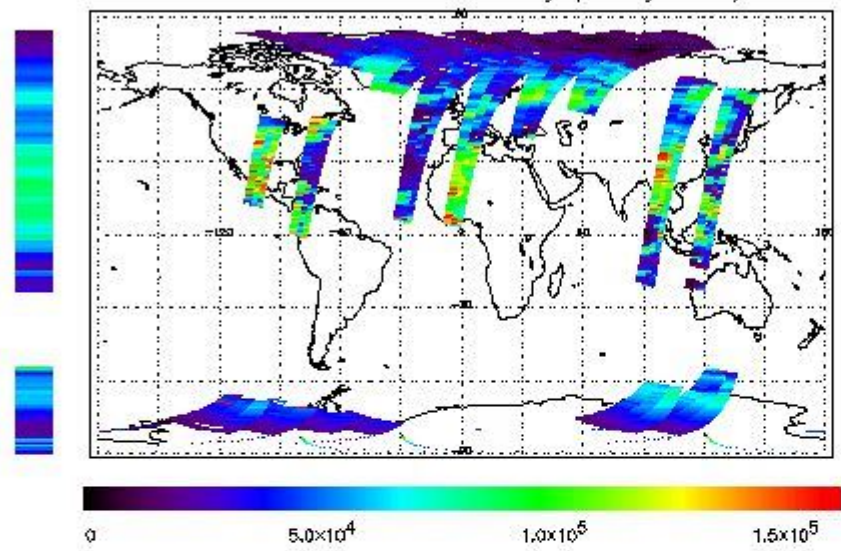
(1)

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

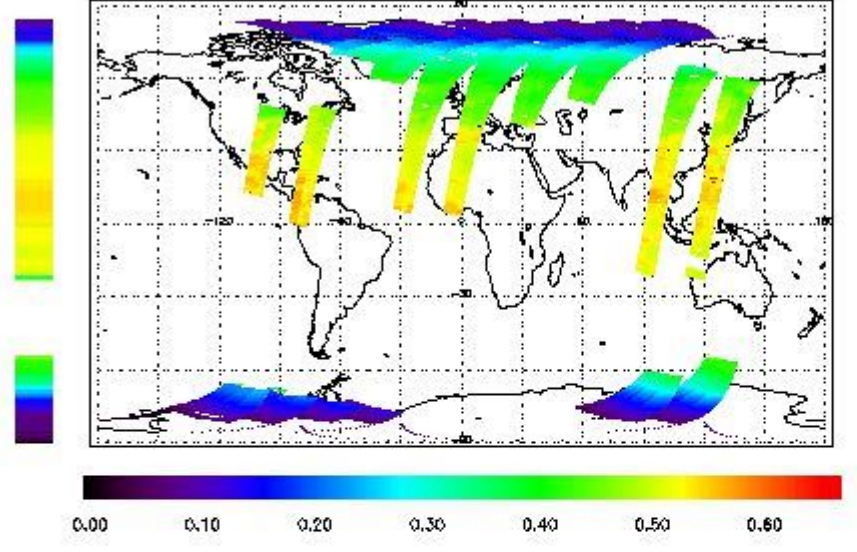
778 nm Uncalibrated Intensity (Binary Units)



Ozone Line Ratio

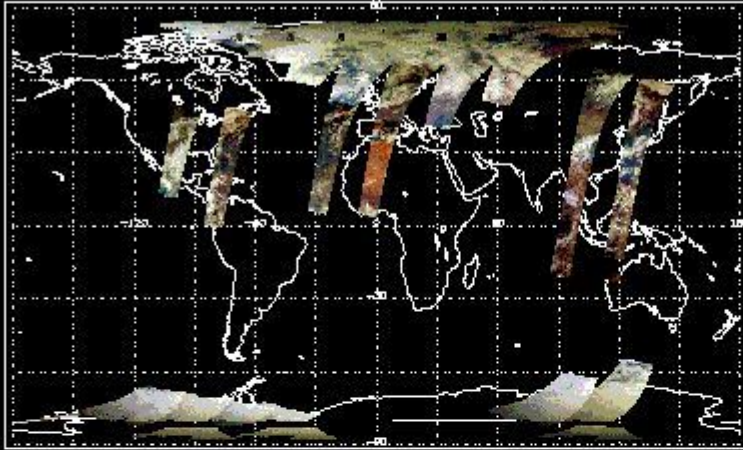
First Product : 23-SEP-2009 00:00:34.780 : ORBIT : 75421.0198
Last Product : 23-SEP-2009 23:52:40.497 : ORBIT : 75436.2555
Total Products Processed : 18777 Day : 266

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	17:08:27.530	--	75431	Y	--	15130

(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)

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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)

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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
--	--	--	--

01:00 05-Sep	--	75164	--
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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