

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	22-SEP-2009
Start Time of First Product	00:32:59
Stop Time of Last Product	22:44:31
Number of EGOI Products analysed	35
Number of corrupted products	1
Anomalies and/or Special Operations	Nominal Data

1.2 - List of received products

Name	Date	Time
EGOI_090922BEEP0735.E2	22-SEP-2009	02:44:37.514
EGOI_090922BEEP0741.E2	22-SEP-2009	04:24:38.123
EGOI_090922GSEP9191.E2	22-SEP-2009	02:18:13.357
EGOI_090922GSEP9216.E2	22-SEP-2009	03:58:18.459
EGOI_090922GSEP9223.E2	22-SEP-2009	05:40:50.580
EGOI_090922KSEP3806.E2	22-SEP-2009	07:38:55.804
EGOI_090922KSEP3814.E2	22-SEP-2009	09:18:57.910
EGOI_090922KSEP3840.E2	22-SEP-2009	10:58:36.020
EGOI_090922KSEP3868.E2	22-SEP-2009	12:37:53.119

EGOI_090922KSEP3893.E2	22-SEP-2009	14:16:49.225
EGOI_090922KSEP3908.E2	22-SEP-2009	15:54:39.321
EGOI_090922KSEP3937.E2	22-SEP-2009	17:32:35.416
EGOI_090922KSEP3969.E2	22-SEP-2009	19:10:23.934
EGOI_090922KSEP4003.E2	22-SEP-2009	20:50:11.039
EGOI_090922KSEP4033.E2	22-SEP-2009	22:32:14.739
EGOI_090922MAEP4139.E2	22-SEP-2009	09:26:50.456
EGOI_090922MAEP4148.E2	22-SEP-2009	11:06:12.063
EGOI_090922MIEP9608.E2	22-SEP-2009	02:15:38.842
EGOI_090922MIEP9621.E2	22-SEP-2009	03:53:34.931
EGOI_090922MIEP9640.E2	22-SEP-2009	14:36:01.339
EGOI_090922MIEP9667.E2	22-SEP-2009	16:12:55.930
EGOI_090922MIEP9685.E2	22-SEP-2009	17:55:58.055
EGOI_090922MMEP8592.E2	22-SEP-2009	03:20:30.232
EGOI_090922MMEP8598.E2	22-SEP-2009	05:03:08.357
EGOI_090922MMEP8606.E2	22-SEP-2009	06:45:05.974
EGOI_090922MMEP8616.E2	22-SEP-2009	10:06:43.199
EGOI_090922MMEP8624.E2	22-SEP-2009	11:46:57.309
EGOI_090922MSEP8019.E2	21-SEP-2009	11:42:51.531
EGOI_090922MSEP8041.E2	21-SEP-2009	13:24:11.642
EGOI_090922MSEP8065.E2	22-SEP-2009	00:32:59.216
EGOI_090922MSEP8085.E2	22-SEP-2009	11:11:48.094
EGOI_090922MSEP8110.E2	22-SEP-2009	12:51:41.205
EGOI_090922MSEP8142.E2	22-SEP-2009	22:21:07.173
EGOI_090922SGEP9852.E2	22-SEP-2009	02:55:58.584
EGOI_090922SGEP9860.E2	22-SEP-2009	04:35:39.689
EGOI_090922SGEP9869.E2	22-SEP-2009	13:55:07.093
EGOI_090922SGEP9876.E2	22-SEP-2009	15:30:09.167

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	75411	22-SEP-2009	07:36:48.595	07:38:55.804	127.20900
KS	75412	22-SEP-2009	09:16:22.841	09:18:57.910	155.06900
KS	75413	22-SEP-2009	10:55:58.706	10:58:36.020	157.31400
KS	75414	22-SEP-2009	12:35:18.101	12:37:53.119	155.01800
KS	75415	22-SEP-2009	14:14:09.877	14:16:49.225	159.34800
KS	75416	22-SEP-2009	15:52:00.776	15:54:39.320	158.54400
KS	75417	22-SEP-2009	17:29:55.435	17:32:35.416	159.98100
KS	75418	22-SEP-2009	19:08:09.683	19:10:23.933	134.25000
KS	75419	22-SEP-2009	20:48:06.113	20:50:11.039	124.92600
KS	75420	22-SEP-2009	22:30:12.246	22:32:14.738	122.49200

GS	75408	22-SEP-2009	02:16:48.933	02:18:13.357	84.424000
GS	75409	22-SEP-2009	03:56:08.240	03:58:18.458	130.21800
MS	75407	22-SEP-2009	00:31:01.767	00:32:59.216	117.44900
MS	75413	22-SEP-2009	11:09:05.065	11:11:48.094	163.02900
MS	75414	22-SEP-2009	12:49:04.845	12:51:41.205	156.36000
MS	75420	22-SEP-2009	22:18:57.671	22:21:07.172	129.50100
MA	75412	22-SEP-2009	09:24:32.319	09:26:50.455	138.13600
MA	75413	22-SEP-2009	11:04:58.449	11:06:12.062	73.613000
MI	75408	22-SEP-2009	02:13:12.135	02:15:38.842	146.70700
MI	75409	22-SEP-2009	03:50:25.778	03:53:34.930	189.15200
MI	75409	22-SEP-2009	04:02:03.480	04:03:33.318	89.838000
MI	75415	22-SEP-2009	14:33:37.237	14:36:01.338	144.10100
MI	75416	22-SEP-2009	16:10:27.784	16:12:55.930	148.14600
MI	75417	22-SEP-2009	17:53:58.534	17:55:58.054	119.52000
MM	75408	22-SEP-2009	03:19:21.108	03:20:30.231	69.123000
MM	75410	22-SEP-2009	06:44:04.229	06:45:05.974	61.745000
MM	75412	22-SEP-2009	10:05:06.323	10:06:43.199	96.876000
MM	75413	22-SEP-2009	11:45:09.856	11:46:57.309	107.45300
BE	75408	22-SEP-2009	02:41:53.105	02:44:37.513	164.40800
BE	75409	22-SEP-2009	04:21:57.052	04:24:38.123	161.07100
SG	75408	22-SEP-2009	02:53:18.266	02:55:58.583	160.31700
SG	75409	22-SEP-2009	04:33:31.444	04:35:39.689	128.24500
SG	75415	22-SEP-2009	15:27:38.350	15:30:09.166	150.81600

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
MM	75406	21-SEP-2009	23:54:26.978	00:06:00.622	693.64400
HO	75407	22-SEP-2009	01:24:35.964	01:36:51.812	735.84800
MM	75407	22-SEP-2009	01:36:27.089	01:46:13.553	586.46400
GS	75407	22-SEP-2009	00:40:47.639	00:48:39.812	472.17300
CM	75408	22-SEP-2009	03:49:22.528	04:01:38.355	735.82700
KS	75410	22-SEP-2009	05:58:10.509	06:02:58.015	287.50600
CM	75410	22-SEP-2009	05:31:59.633	05:37:52.290	352.65700
JO	75410	22-SEP-2009	06:26:56.998	06:34:15.819	438.82100
MM	75411	22-SEP-2009	08:24:48.257	08:33:49.879	541.62200

JO	75411	22-SEP-2009	08:01:32.545	08:16:28.823	896.27800
JO	75412	22-SEP-2009	09:43:15.595	09:53:58.612	643.01700
HO	75413	22-SEP-2009	11:54:36.305	12:07:41.221	784.91600
HO	75414	22-SEP-2009	13:33:31.637	13:48:11.179	879.54200
MM	75414	22-SEP-2009	13:24:59.726	13:37:42.481	762.75500
BE	75415	22-SEP-2009	13:58:29.206	14:11:52.264	803.05800
HO	75415	22-SEP-2009	15:14:42.018	15:22:49.044	487.02600
MM	75415	22-SEP-2009	15:04:34.166	15:17:14.287	760.12100
GS	75415	22-SEP-2009	14:26:08.553	14:36:54.929	646.37600
BE	75416	22-SEP-2009	15:40:21.416	15:49:50.674	569.25800
MM	75416	22-SEP-2009	16:43:52.461	16:56:24.638	752.17700
GS	75416	22-SEP-2009	16:04:34.886	16:18:29.906	835.02000
CM	75416	22-SEP-2009	16:13:18.472	16:25:37.210	738.73800
MM	75417	22-SEP-2009	18:23:00.782	18:35:35.195	754.41300
GS	75417	22-SEP-2009	17:44:53.900	17:55:20.336	626.43600
CM	75417	22-SEP-2009	17:55:12.656	18:01:19.000	366.34400
MM	75418	22-SEP-2009	20:02:15.791	20:14:58.765	762.97400
MA	75418	22-SEP-2009	19:05:58.017	19:12:57.324	419.30700
JO	75418	22-SEP-2009	20:21:39.428	20:36:24.912	885.48400
MM	75419	22-SEP-2009	21:42:00.884	21:54:38.816	757.93200
MA	75419	22-SEP-2009	20:40:04.379	20:53:45.584	821.20500
JO	75419	22-SEP-2009	22:01:51.686	22:14:02.752	731.06600
HO	75420	22-SEP-2009	23:12:57.423	23:26:55.894	838.47100
MM	75420	22-SEP-2009	23:22:37.035	23:34:33.740	716.70500
MA	75420	22-SEP-2009	22:23:31.554	22:31:48.059	496.50500
MS	75421	22-SEP-2009	23:58:14.330	00:10:28.139	733.80900

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1.5 - List of corrupted products

Station	Orbit	Time
SG	75409	04:46:59.255

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

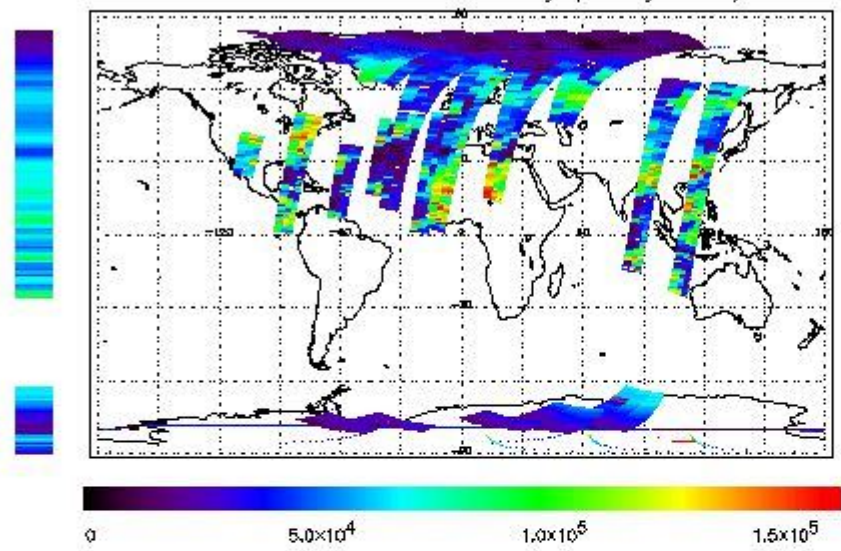
First Product : 21-SEP-2009 11:42:51.531 : ORBIT : 75399.3722

Last Product : 22-SEP-2009 22:44:31.317 : ORBIT : 75420.2637

Total Products Processed : 17349 Day : 265

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778 nm Uncalibrated Intensity (Binary Units)



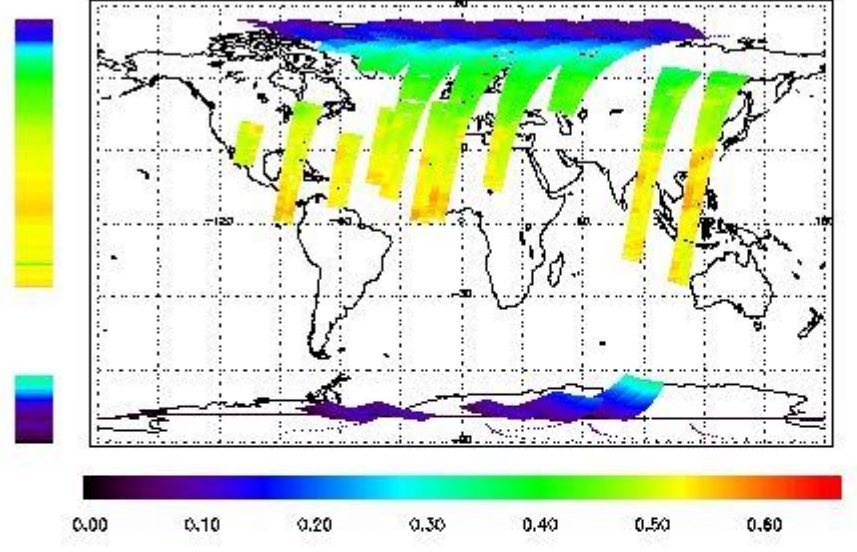
Ozone Line Ratio

First Product : 21-SEP-2009 11:42:51.531 : ORBIT : 75399.3722
Last Product : 22-SEP-2009 22:44:31.317 : ORBIT : 75420.2637

Total Products Processed : 17349 Day : 265

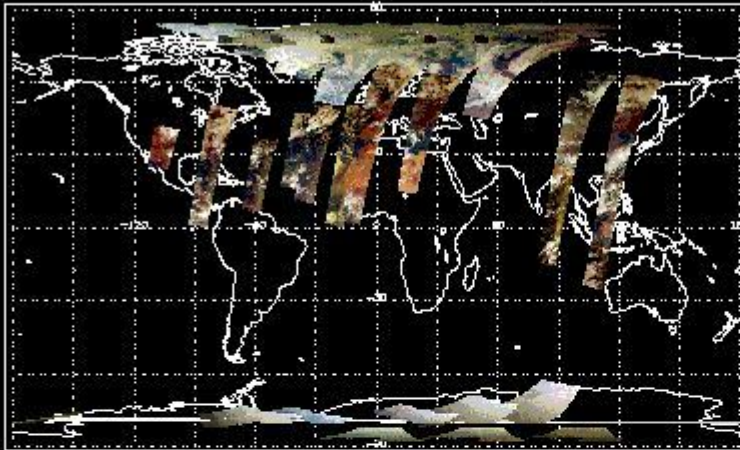
Page : 20

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	17:39:54.959	--	75417	Y	--	15154

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

(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
--	--	--	--

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