

GOME Daily Report

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1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	24-AUG-2009
Start Time of First Product	00:06:32
Stop Time of Last Product	23:48:46
Number of EGOI Products analysed	25
Number of corrupted products	1
Anomalies and/or Special Operations	Narrow Swath performed as planned, start orbit 75004

1.2 - List of received products

Name	Date	Time
EGOI_090824HLEP3372.E2	24-AUG-2009	00:06:32.037
EGOI_090824HLEP3380.E2	24-AUG-2009	21:55:51.278
EGOI_090824HLEP3387.E2	24-AUG-2009	23:28:50.339
EGOI_090824KSEP6518.E2	24-AUG-2009	06:10:49.240
EGOI_090824KSEP6529.E2	24-AUG-2009	07:50:43.849
EGOI_090824KSEP6540.E2	24-AUG-2009	09:30:20.451
EGOI_090824KSEP6549.E2	24-AUG-2009	11:09:57.048
EGOI_090824KSEP6560.E2	24-AUG-2009	12:49:14.150
EGOI_090824KSEP6579.E2	24-AUG-2009	14:28:05.748

EGOI_090824KSEP6595.E2	24-AUG-2009	16:05:48.337
EGOI_090824KSEP6625.E2	24-AUG-2009	17:43:44.448
EGOI_090824KSEP6661.E2	24-AUG-2009	19:21:39.843
EGOI_090824KSEP6696.E2	24-AUG-2009	21:01:43.454
EGOI_090824KSEP6725.E2	24-AUG-2009	22:44:14.069
EGOI_090824MIEP7544.E2	24-AUG-2009	16:24:22.971
EGOI_090824MMEP7604.E2	24-AUG-2009	18:36:44.769
EGOI_090824MMEP7614.E2	24-AUG-2009	21:56:04.782
EGOI_090824MMEP7622.E2	24-AUG-2009	23:36:12.882
EGOI_090824MSEP4876.E2	24-AUG-2009	00:45:21.780
EGOI_090824MSEP4891.E2	24-AUG-2009	11:23:04.645
EGOI_090824MSEP4897.E2	24-AUG-2009	13:03:23.255
EGOI_090824MSEP4926.E2	24-AUG-2009	22:32:24.502
EGOI_090824SGEP9138.E2	24-AUG-2009	04:48:53.153
EGOI_090824SGEP9145.E2	24-AUG-2009	14:05:01.020
EGOI_090824SGEP9153.E2	24-AUG-2009	15:41:43.602

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
KS	74995	24-AUG-2009	06:09:15.842	06:10:49.239	93.397000
KS	74996	24-AUG-2009	07:48:10.485	07:50:43.849	153.36400
KS	74997	24-AUG-2009	09:27:46.090	09:30:20.451	154.36100
KS	74998	24-AUG-2009	11:07:20.944	11:09:57.047	156.10300
KS	74999	24-AUG-2009	12:46:37.286	12:49:14.150	156.86400
KS	75000	24-AUG-2009	14:25:25.328	14:28:05.747	160.41900
KS	75001	24-AUG-2009	16:03:10.633	16:05:48.337	157.70400
KS	75002	24-AUG-2009	17:41:05.863	17:43:44.448	158.58500
KS	75003	24-AUG-2009	19:19:29.650	19:21:39.842	130.19200
KS	75004	24-AUG-2009	20:59:38.901	21:01:43.454	124.55300
KS	75005	24-AUG-2009	22:42:02.861	22:44:14.068	131.20700
MS	74992	24-AUG-2009	00:43:20.774	00:45:21.779	121.00500
MS	74998	24-AUG-2009	11:20:20.140	11:23:04.645	164.50500
MS	74999	24-AUG-2009	13:00:48.426	13:03:23.254	154.82800
MS	75005	24-AUG-2009	22:29:59.130	22:32:24.501	145.37100
MI	75001	24-AUG-2009	16:21:53.209	16:24:22.970	149.76100
MM	75002	24-AUG-2009	18:34:20.602	18:36:44.769	144.16700
MM	75004	24-AUG-2009	21:53:27.819	21:56:04.782	156.96300
MM	75005	24-AUG-2009	23:34:10.810	23:36:12.881	122.07100
SG	74994	24-AUG-2009	04:45:33.363	04:48:53.152	199.78900

SG	74999	24-AUG-2009	14:03:05.241	14:05:01.020	115.77900
SG	75000	24-AUG-2009	15:39:01.304	15:41:43.602	162.29800

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)
HO	74991	23-AUG-2009	23:55:08.668	00:09:38.960	870.29200
MM	74991	24-AUG-2009	00:06:03.118	00:17:27.085	683.96700
HO	74992	24-AUG-2009	01:36:27.763	01:47:54.310	686.54700
MM	74992	24-AUG-2009	01:48:10.466	01:57:41.787	571.32100
GS	74992	24-AUG-2009	00:51:22.213	01:00:21.852	539.63900
BE	74993	24-AUG-2009	02:53:12.075	03:06:35.698	803.62300
MM	74993	24-AUG-2009	03:31:08.405	03:38:18.374	429.96900
MI	74993	24-AUG-2009	02:23:53.900	02:34:47.214	653.31400
GS	74993	24-AUG-2009	02:28:06.782	02:41:02.666	775.88400
SG	74993	24-AUG-2009	03:04:24.979	03:17:57.735	812.75600
CM	74993	24-AUG-2009	04:00:37.636	04:13:02.216	744.58000
BE	74994	24-AUG-2009	04:33:34.074	04:43:43.941	609.86700
MM	74994	24-AUG-2009	05:14:00.530	05:19:47.136	346.60600
MI	74994	24-AUG-2009	04:01:58.828	04:14:45.089	766.26100
GS	74994	24-AUG-2009	04:07:54.214	04:19:56.583	722.36900
MM	74995	24-AUG-2009	06:55:37.188	07:02:33.885	416.69700
JO	74995	24-AUG-2009	06:37:08.202	06:46:24.582	556.38000
MM	74996	24-AUG-2009	08:36:16.968	08:45:34.521	557.55300
MA	74996	24-AUG-2009	07:59:07.281	08:07:05.946	478.66500
JO	74996	24-AUG-2009	08:12:49.801	08:27:51.289	901.48800
MM	74997	24-AUG-2009	10:16:33.110	10:27:47.977	674.86700
MA	74997	24-AUG-2009	09:35:51.189	09:49:30.794	819.60500
JO	74997	24-AUG-2009	09:55:33.881	10:04:34.024	540.14300
MM	74998	24-AUG-2009	11:56:35.129	12:08:56.914	741.78500
MA	74998	24-AUG-2009	11:16:39.220	11:25:26.186	526.96600
MM	74999	24-AUG-2009	13:36:23.340	13:49:06.819	763.47900
BE	75000	24-AUG-2009	14:09:49.228	14:23:14.125	804.89700
MM	75000	24-AUG-2009	15:15:55.899	15:28:34.963	759.06400
MI	75000	24-AUG-2009	14:44:10.846	14:53:41.613	570.76700
GS	75000	24-AUG-2009	14:37:13.495	14:48:09.174	655.67900

BE	75001	24-AUG-2009	15:52:36.329	16:00:37.297	480.96800
MM	75001	24-AUG-2009	16:55:12.555	17:07:44.355	751.80000
GS	75001	24-AUG-2009	16:15:57.958	16:29:47.522	829.56400
CM	75001	24-AUG-2009	16:24:35.739	16:37:00.947	745.20800
GS	75002	24-AUG-2009	17:56:30.023	18:06:04.744	574.72100
CM	75002	24-AUG-2009	18:08:27.018	18:10:30.028	123.01000
MM	75003	24-AUG-2009	20:13:37.831	20:26:21.373	763.54200
MA	75003	24-AUG-2009	19:16:24.880	19:24:43.807	498.92700
JO	75003	24-AUG-2009	20:32:55.329	20:47:52.654	897.32500
MA	75004	24-AUG-2009	20:51:24.561	21:05:07.302	822.74100
MA	75005	24-AUG-2009	22:35:59.230	22:42:28.654	389.42400

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1.5 - List of corrupted products

Station	Orbit	Time
MI	75001	16:37:56.05

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

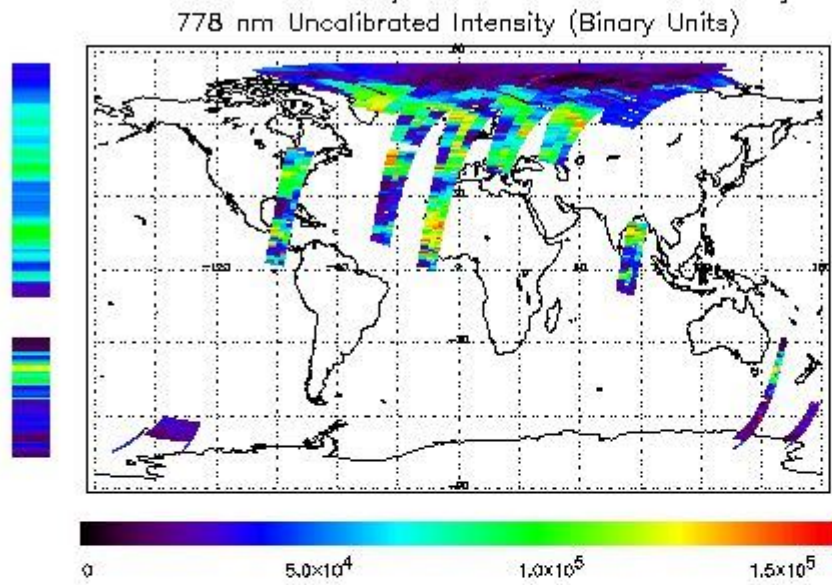
(1)

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 : 24-AUG-2009 00:06:32.037 : ORBIT : 74991.6504
 Last Product : 24-AUG-2009 23:48:45.980 : ORBIT : 75005.7881
 Total Products Processed : 11440 Day : 236 Page : 21



Ozone Line Ratio

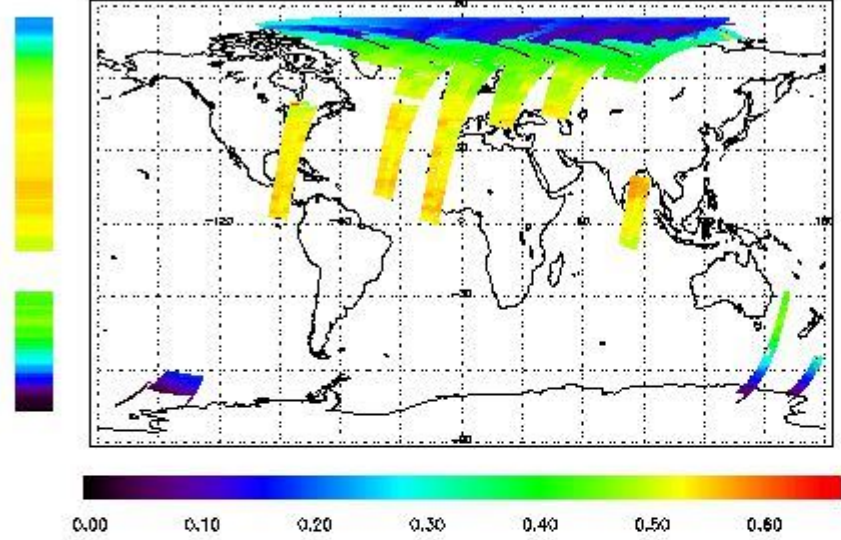
First Product : 24-AUG-2008 00:06:32.037 : ORBIT : 74881.6504

Last Product : 24-AUG-2008 23:48:45.880 : ORBIT : 75005.7881

Total Products Processed : 11440 Day : 236

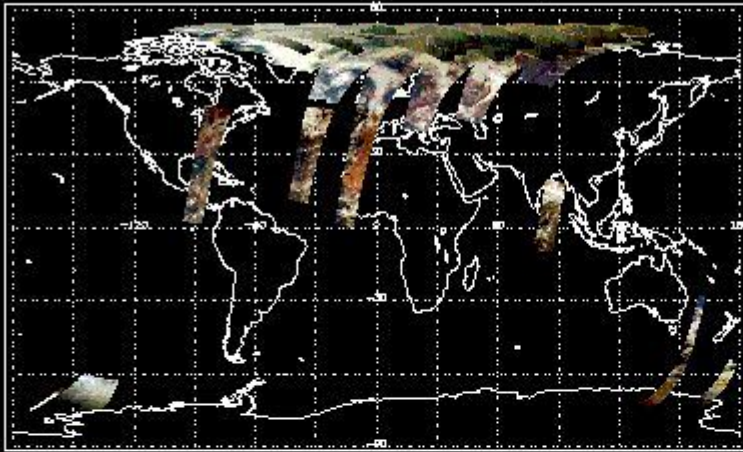
Page : 20

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	19:28:39.880	--	75003	Y	--	14888

(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)

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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
--	--	--	--	--	--	--	--	--

(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
21:00	--	75004	--

5.6 - Seasonal Operations

Start Time	End Time	Start Orbit	End Orbit
--	--	--	--

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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