GOME Daily Report

INDEX

1 - General Info

1.1 - Report Summary

Item	Value
Report Version	GOMEver3_3
Report of Day	28-JUL-2009
Start Time of First Product	23:51:46 (27-07-2009)
Stop Time of Last Product	23:44:08
Number of EGOI Products analysed	35
Number of corrupted products	0
Anomalies and/or Special Operations	Quarterly Calibration operated during Orbit 74616 - 74619

1.2 - List of received products

Name	Date	Time
EGOI_090728BEEP0289.E2	28-JUL-2009	15:01:24.612
EGOI_090728GSEP5526.E2	28-JUL-2009	01:39:10.743
EGOI_090728GSEP5548.E2	28-JUL-2009	03:17:30.836
EGOI_090728GSEP5558.E2	28-JUL-2009	05:00:26.961
EGOI_090728HLEP2713.E2	28-JUL-2009	00:47:55.425
EGOI_090728KSEP9534.E2	28-JUL-2009	06:59:08.183
EGOI_090728KSEP9554.E2	28-JUL-2009	08:39:02.789
EGOI_090728KSEP9582.E2	28-JUL-2009	10:18:42.399
EGOI_090728KSEP9608.E2	28-JUL-2009	11:58:14.497

EGOI_090728KSEP9628.E2	28-JUL-2009	13:37:10.600
EGOI_090728KSEP9656.E2	28-JUL-2009	15:15:50.198
EGOI_090728KSEP9688.E2	28-JUL-2009	16:53:19.293
EGOI_090728KSEP9718.E2	28-JUL-2009	18:31:12.388
EGOI_090728KSEP9753.E2	28-JUL-2009	20:10:00.990
EGOI_090728KSEP9783.E2	28-JUL-2009	21:51:09.108
EGOI_090728KSEP9810.E2	28-JUL-2009	23:34:33.738
EGOI_090728MAEP2226.E2	28-JUL-2009	10:26:10.942
EGOI_090728MIEP5318.E2	28-JUL-2009	03:13:08.309
EGOI_090728MIEP5340.E2	28-JUL-2009	04:54:44.930
EGOI_090728MIEP5360.E2	28-JUL-2009	15:33:17.304
EGOI_090728MMEP6498.E2	28-JUL-2009	02:39:20.102
EGOI_090728MMEP6505.E2	28-JUL-2009	06:04:24.352
EGOI_090728MMEP6512.E2	28-JUL-2009	09:26:28.583
EGOI_090728MMEP6519.E2	28-JUL-2009	11:06:47.192
EGOI_090728MMEP6529.E2	28-JUL-2009	14:26:09.401
EGOI_090728MMEP6539.E2	28-JUL-2009	21:03:55.315
EGOI_090728MSEP1848.E2	27-JUL-2009	23:51:46.089
EGOI_090728MSEP1866.E2	28-JUL-2009	10:33:01.986
EGOI_090728MSEP1895.E2	28-JUL-2009	12:11:16.079
EGOI_090728MSEP1916.E2	28-JUL-2009	21:43:10.557
EGOI_090728MSEP1943.E2	28-JUL-2009	23:20:06.644
EGOI_090728SGEP8750.E2	28-JUL-2009	02:17:31.969
EGOI_090728SGEP8758.E2	28-JUL-2009	03:54:49.063
EGOI_090728SGEP8768.E2	28-JUL-2009	14:53:05.061
EGOI_090728SGEP8776.E2	28-JUL-2009	16:31:14.661

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1.3 - List of data gaps

Station	Orbit	Date	Start Time	Stop Time	Duration (s)

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1.4 - List of missing products

Station	Orbit	Date	Start Time	Stop Time	Duration (s)

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1.5 - List of corrupted products

Station	Orbit	Time

2 - Instrument Indicators and Daily Plots

2.1 - Instrument Indicators Status

Indicator	Value

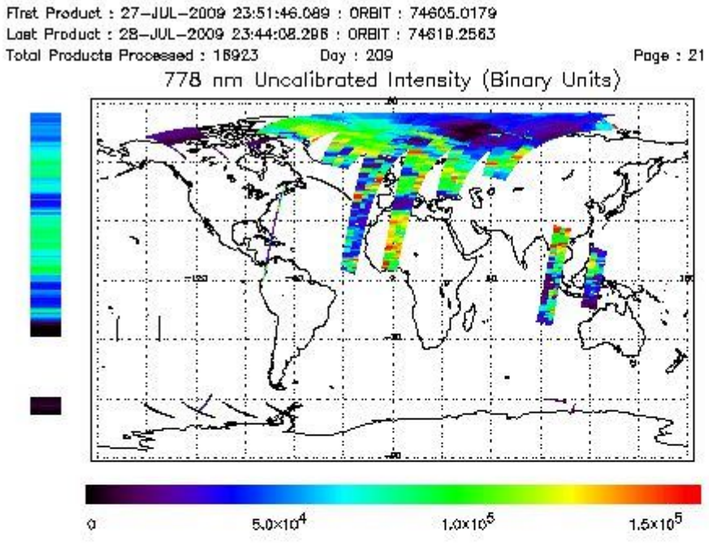
MPH Product Confidence	OK
SPH Product Confidence	OK
Command Word Echo Summary	OK
Instrument Status 1A	OK
Instrument Status 1B	OK
Instrument Status 2	OK
Integration Times Channel 1	OK
Co-Adding and Cluster Mode Flags	OK
Integration Times Band 2A	OK
Integration Times Band 2B	OK
Integration Times Band 3	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	calibration lamp instabilities
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)

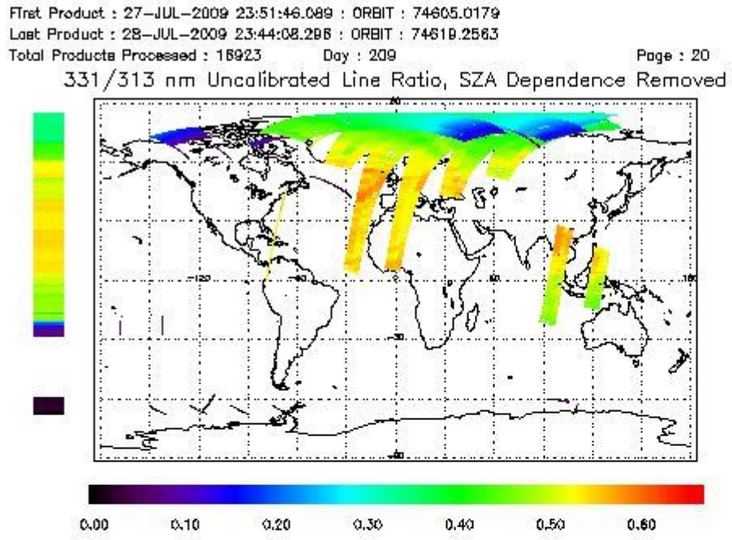
2.2 - Daily Plots

The images linked below provide a quick check on the data coverage and instrument performance. All data are UNCALIBRATED. For the explaination see the GOME Performance Legend

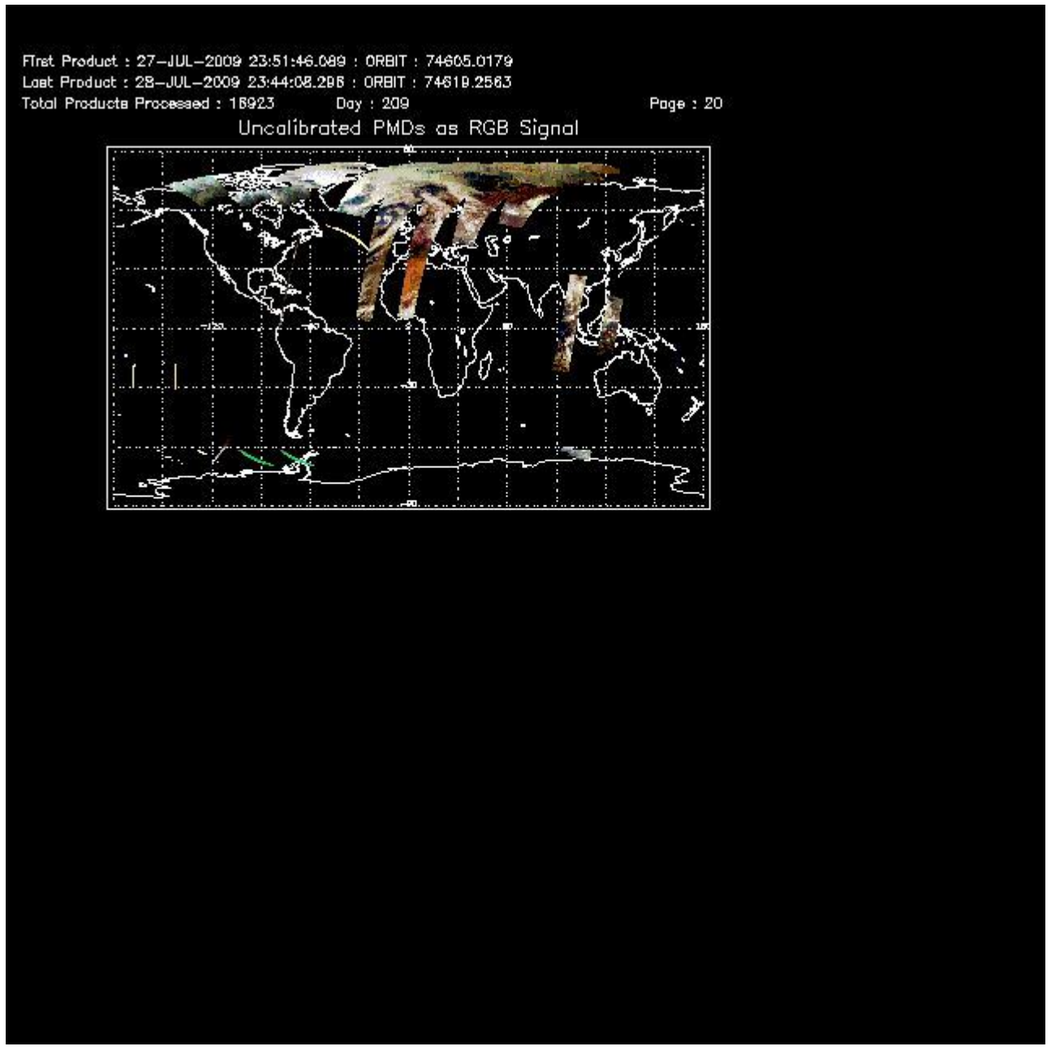
NEAR IR Intensity



Ozone Line Ratio



PMD Image (Earthshine Radiance)



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	16:53:59.797	--	74615	Y	--	14750

(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)
Q	18:36:54	18:45:22	74616	NE	--	--	--
Q	20:17:31	20:24:58	74617	NE	--	--	--
Q	21:03:55	21:10:22	74617	NS	--	180	--
Q	21:43:10	21:45:48	74618	NS	--	180	--
Q	21:58:01	22:04:37	74618	NE	--	dropdown_to_180_after80sec	--
Q	23:20:06	23:26:24	74619	NS	--	180	--

Q	23:38:36	23:44:08	74619	NE	--	180_alternating_with_198	--

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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)
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(2)

4.2 - Instrument Off

Start Time	End Time	Start Orbit	End Orbit	MPS Resumption	Ground Station Visibility (Y/NS/NE)
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(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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5 - Instrument Operations

5.1 - Timeline Interruptions

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
15:00:00	16:30:00	74614	74614	Y

(2)

5.2 - TST44

Start Time	Start Orbit	Ground Station Visibility (Y/NS/NE)
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(2)

5.3 - Power Cycle

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
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(2)

5.4 - Wrong Command Execution

Start Time	End Time	Start Orbit	End Orbit	Ground Station Visibility (Y/NS/NE)
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(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
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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