## IASI L0 and L1 Weekly Monitoring Report Metop-B

#### IASI monitoring team

13/01/2025 00:00:00 - 20/01/2025 00:00:00 (Week 03)

#### 1 Introduction

This report provides summary monitoring plots and figures from IASI instrument on the MetOp-B satellite retrieved from the IASI L0 and L1 ENG product (3 minute data packet) for 13/01/2025 00:00:00 - 20/01/2025 00:00:00.

The monitoring data are extracted on PDU basis.

Data extraction, calibration, processing and statictics are performed at EUMETSAT.

#### 2 Data quantity 13/01/2025 00:00:00 - 20/01/2025 00:00:00

Product Type	Number	Action
L0 HKTM PDUs	3345	-
L0 IASI PDUs	3345	-
L1 ENG PDUs	3338	-
L1 ENG distinct GEPSGranule	3314	-
L1 DPX PDUs (RM: IASI-HIRS)	0	e
L1 DPS Files (RM: OBS-CAL NWP based)	3338	-

Table 1: Data quantity

APID	Packet type	Packets lost
-	-	-

Table 2: L0 packet losses

## 3 Instrument modes

13/01/2025 00:00:09   -	Time	Transition from	Transition to	
17/01/2025 02:57:45	13/01/2025 00:00:09	-	Normal operation	
17/01/2025 05:51:37	17/01/2025 02:55:37	External calibration	Auxiliary ASE synchronised	
17/01/2025 05:53:45	17/01/2025 02:57:45	Auxiliary ASE synchronised	Normal operation	
17/01/2025 06:24:09	17/01/2025 05:51:37	Normal operation	Auxiliary ASE synchronised	
17/01/2025 06:26:01	17/01/2025 05:53:45	Auxiliary ASE synchronised	External calibration	
17/01/2025 07:30:49     Normal operation     Auxiliary ASE synchronised       17/01/2025 07:32:57     Auxiliary ASE synchronised     External calibration       17/01/2025 07:32:57     Auxiliary ASE synchronised     External calibration       17/01/2025 08:04:09     External calibration     Auxiliary ASE synchronised       17/01/2025 09:13:13     Auxiliary ASE synchronised     External calibration       17/01/2025 09:44:09     External calibration     Auxiliary ASE synchronised       17/01/2025 09:46:01     Auxiliary ASE synchronised     Normal operation       17/01/2025 10:53:29     Normal operation     Auxiliary ASE synchronised       17/01/2025 10:55:21     Auxiliary ASE synchronised     External calibration       17/01/2025 11:23:37     External calibration     Auxiliary ASE synchronised       17/01/2025 12:36:09     Normal operation     Auxiliary ASE synchronised       17/01/2025 12:38:17     Auxiliary ASE synchronised     External calibration       17/01/2025 13:02:49     External calibration     Auxiliary ASE synchronised       18/01/2025 00:01:45     Normal operation     Auxiliary ASE synchronised       18/01/2025 00:03:37     Auxiliary ASE synchronised     External calibration	17/01/2025 06:24:09	External calibration	Auxiliary ASE synchronised	
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18/01/2025 05:35:21Auxiliary ASE synchronisedNormal operation18/01/2025 06:44:25Normal operationAuxiliary ASE synchronised18/01/2025 06:46:33Auxiliary ASE synchronisedExternal calibration18/01/2025 07:13:45External calibrationAuxiliary ASE synchronised18/01/2025 07:15:37Auxiliary ASE synchronisedNormal operation			Auxiliary ASE synchronised	
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18/01/2025 07:15:37 Auxiliary ASE synchronised Normal operation	18/01/2025 06:46:33	Auxiliary ASE synchronised	External calibration	
18/01/2025 07:15:37 Auxiliary ASE synchronised Normal operation	18/01/2025 07:13:45	External calibration	Auxiliary ASE synchronised	
	18/01/2025 07:15:37	Auxiliary ASE synchronised	Normal operation	
		Auxiliary ASE synchronised	Normal operation	

Table 3: Instrument modes

# 4 L0 and L1 Data Quality

Day	L0 quality	L1 quality	L0 PDUs	L1 PDUs
13/01/2025	99.74 %	99.74 %	480	480
14/01/2025	99.74 %	99.74 %	480	480
15/01/2025	99.73 %	99.73 %	480	480
16/01/2025	99.74 %	99.73 %	480	480
17/01/2025	99.41 %	99.14 %	480	478
18/01/2025	99.44 %	99.12 %	464	460
19/01/2025	99.73 %	99.71 %	480	480

Table 4: Quality overview

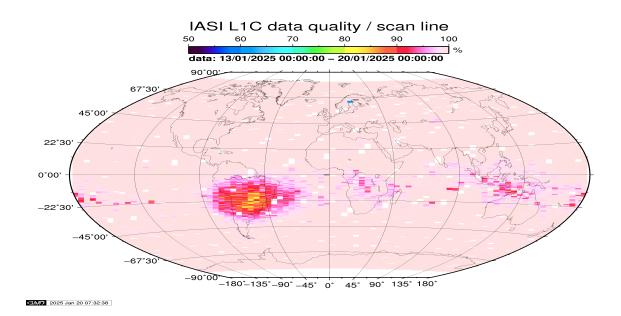


Figure 1: L1C data quality

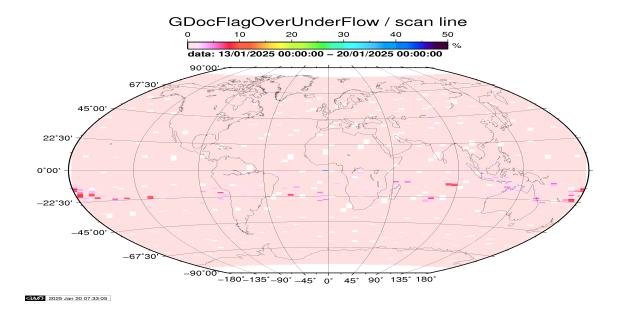


Figure 2: Flag of Over and Under Flows

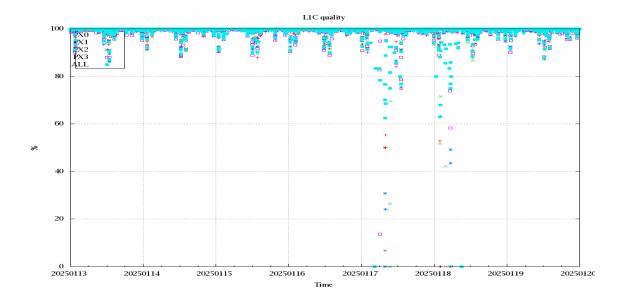


Figure 3: Level 1C quality

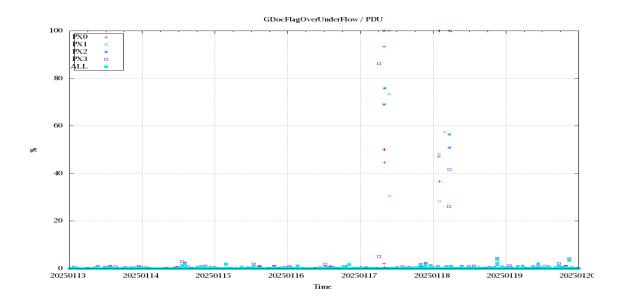


Figure 4: OverUnderFlowFlag timeseries

### 5 Radiance monitoring based on NWP

The radiance monitoring compares the IASI measurements (L1C-eps-products) obtained under clear sky situation over sea with modeled radiances. Cloud indentification is based on cloud flag of colocated AVHRR L1B data in addition to information from the IASI L1C clustering analysis here only homogenous situations are taken into account (99.0 percent in first class). A ratiative transfer model (RTM) is feed with co-located ECMWF profiles of T,WV, and Ozon. Between March 2007 and the 18th of May 2010 RTIASI in Version 4.0 is used. After the 18th of May 2010 the RTTOV model in V9.3 is used. Information about the SST is obtained from the AVHRR L1B or taken from AVHRR scenes analysis (CGS only).

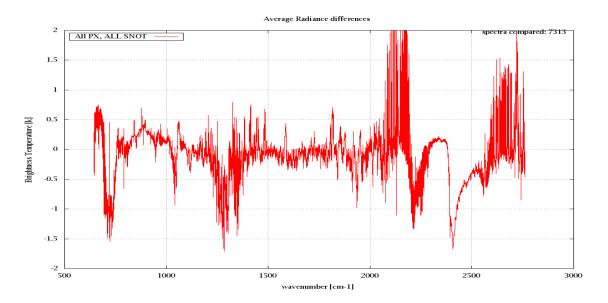


Figure 5: Average radiance differences: OBS-CAL

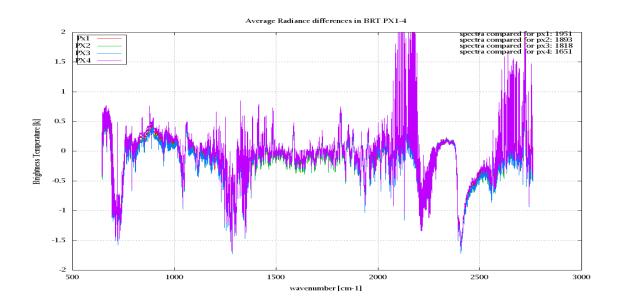


Figure 6: Average radiance differences: OBS-CAL

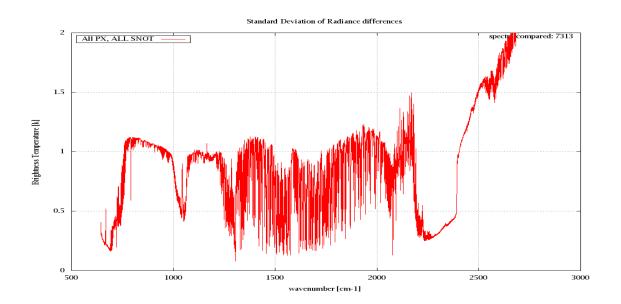


Figure 7: Standard deviation of radiance differences

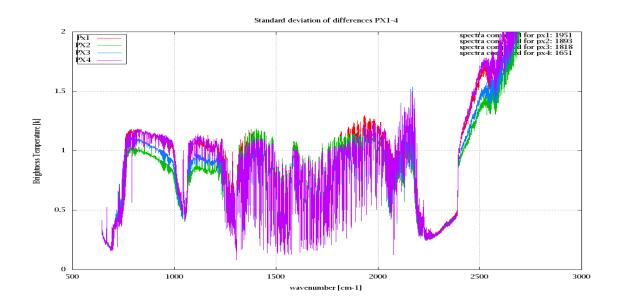


Figure 8: Standard deviation of radiance differences per pixel

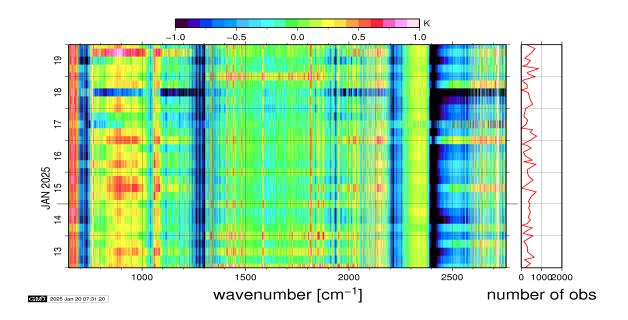


Figure 9: Radiance bias in BRT: All Channels

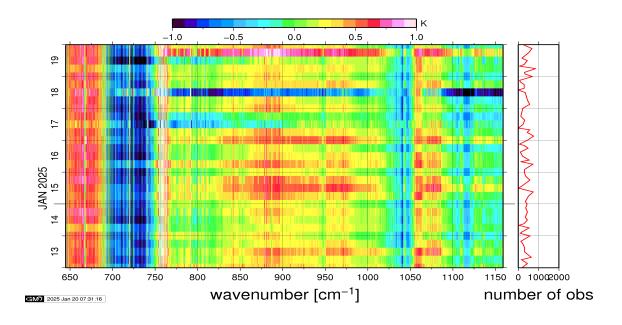


Figure 10: Radiance bias in BRT: IASI Band 1

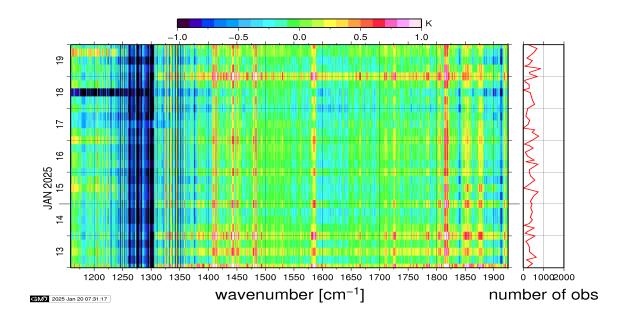


Figure 11: Radiance bias in BRT: IASI Band 2

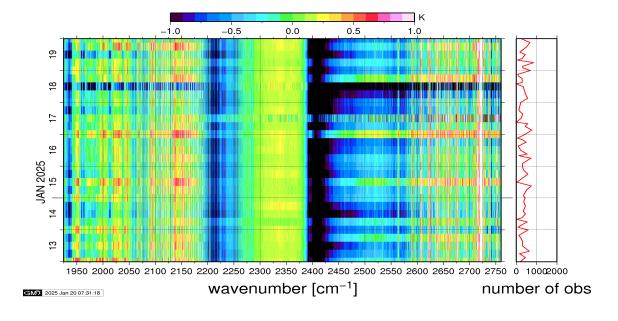


Figure 12: Radiance bias in BRT: IASI Band 3

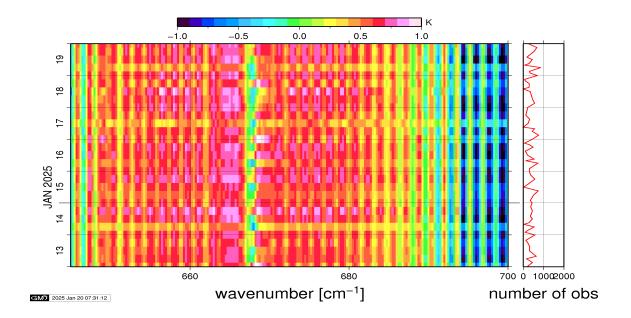


Figure 13: Radiance bias in BRT: CO2 14

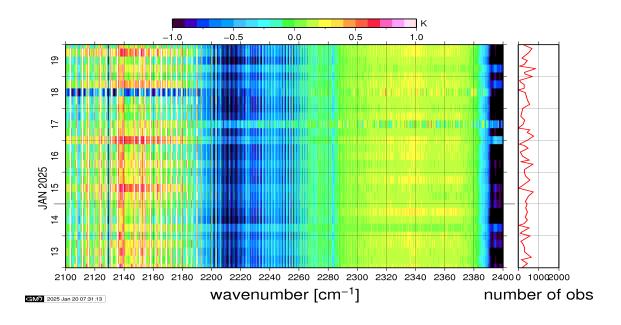


Figure 14: Radiance bias in BRT: CO2 4.3

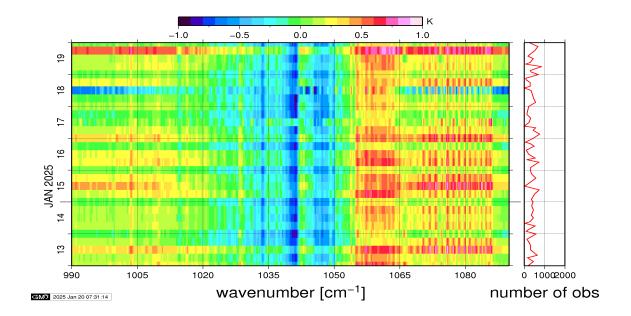


Figure 15: Radiance bias in BRT: O3

## 6 IASI-HIRS radiance comparision Channel 1-19

The radiance comparision of IASI and HIRS/4 on-board MetOp is performed on all pixel with distances smaller than  $3~\rm km$  between IASI and HIRS. The radiance differences IASI - HIRS are given in brightness temperatures at  $280\rm K$  reference temperature.



Figure 16: Radiance Differences in BRT 1h Average



Figure 17: Standard Deviation of Radiance Differences 1h Average



Figure 18: Radiance Differences in BRT 1h Average - Clear Sky

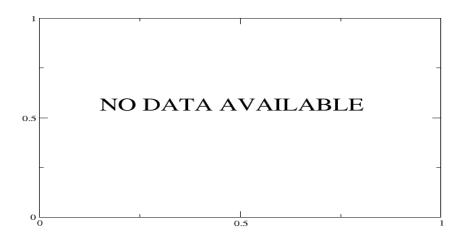


Figure 19: Standard Deviation of Radiance Differences 1h Average - Clear Sky