IASI L0 and L1 Weekly Monitoring Report Metop-B

IASI monitoring team

15/08/2022 00:00:00 - 22/08/2022 00:00:00 (Week 33)

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 15/08/2022 00:00:00 - 22/08/2022 00:00:00.

The monitoring data are extracted on PDU basis.

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

2 Data quantity 15/08/2022 00:00:00 - 22/08/2022 00:00:00

Product Type	Number	Action
L0 HKTM PDUs	3361	-
L0 IASI PDUs	3361	-
L1 ENG PDUs	3360	-
L1 ENG distinct GEPSGranule	3262	-
L1 DPX PDUs (RM: IASI-HIRS)	0	e
L1 DPS Files (RM: OBS-CAL NWP based)	3360	-

Table 1: Data quantity

APID	Packet type	Packets lost
-	-	-

Table 2: L0 packet losses

3 Instrument modes

15/08/2022 0:00:00:05	Time	Transition from	Transition to
15/08/2022 21:25:57	15/08/2022 00:00:05	-	Normal operation
15/08/2022 21:49:25 Auxiliary ASE synchronised Normal operation Normal operation Auxiliary ASE synchronised Normal operation Auxiliary ASE synchronised External calibration 15/08/2022 23:04:05 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 00:43:49 Normal operation Auxiliary ASE synchronised Auxiliary ASE synchronised Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 01:15:17 Auxiliary ASE synchronised Normal operation Auxiliary ASE synchronised 16/08/2022 04:03:17 Normal operation Auxiliary ASE synchronised 16/08/2022 05:42:45 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 05:42:45 Normal operation Auxiliary ASE synchronised 16/08/2022 07:22:13 Auxiliary ASE synchronised External calibration 16/08/2022 07:22:14 Auxiliary ASE synchronised External calibration 16/08/2022 07:25:53 External calibration Auxiliary ASE synchronised 16/08/2022 09:03:33 Auxiliary ASE synchronised External calibration 16/08/2022 09:03:33 Auxiliary ASE synchronised External calibration 16/08/2022 09:03:37 External calibration Auxiliary ASE synchronised 16/08/2022 10:41:09 Normal operation Auxiliary ASE synchronised 16/08/2022 10:43:01 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 11:13:45 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 12:20:37 Normal operation Auxiliary ASE synchronised 16/08/2022 12:30:25 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 12:30:37 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 16/08/2022 15:41:57 Auxiliary ASE synchronised External		Normal operation	
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	16/08/2022 19:31:17	Auxiliary ASE synchronised	Normal operation

Table 3: Instrument modes

4 L0 and L1 Data Quality

Day	L0 quality	L1 quality	L0 PDUs	L1 PDUs
15/08/2022	99.62 %	99.58 %	480	480
16/08/2022	98.81 %	98.07 %	480	480
17/08/2022	99.60 %	99.59 %	480	480
18/08/2022	99.63 %	99.62 %	480	480
19/08/2022	99.63 %	99.62 %	480	480
20/08/2022	99.64 %	99.63 %	480	480
21/08/2022	99.64 %	99.63 %	480	480

Table 4: Quality overview

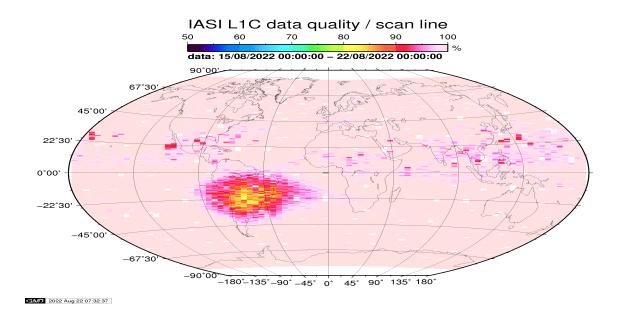


Figure 1: L1C data quality

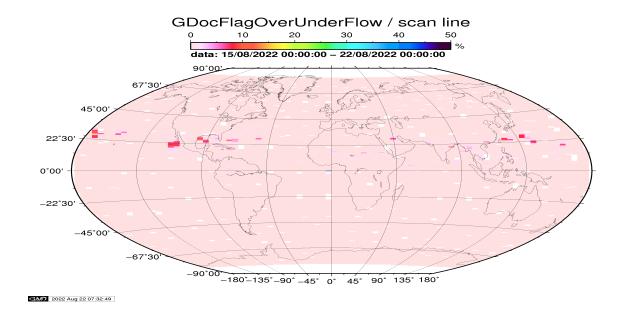


Figure 2: Flag of Over and Under Flows

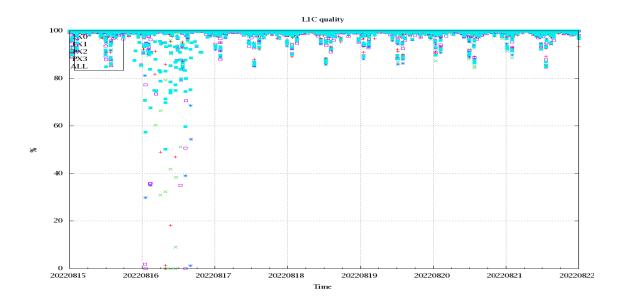


Figure 3: Level 1C quality

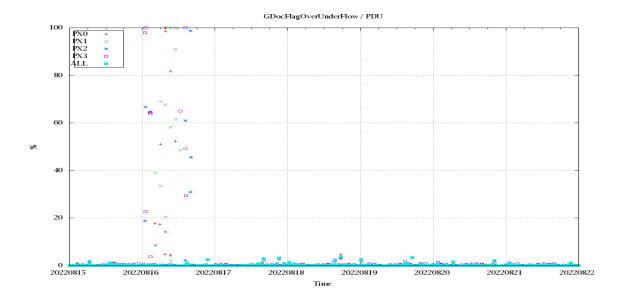


Figure 4: OverUnderFlowFlag timeseries

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).

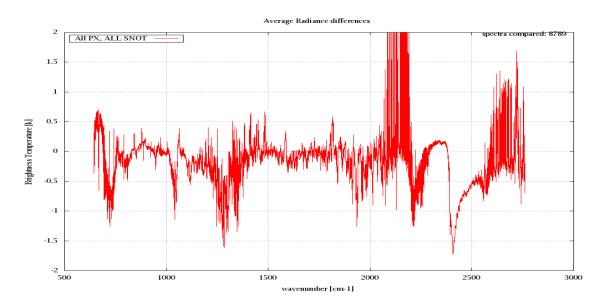


Figure 5: Average radiance differences: OBS-CAL

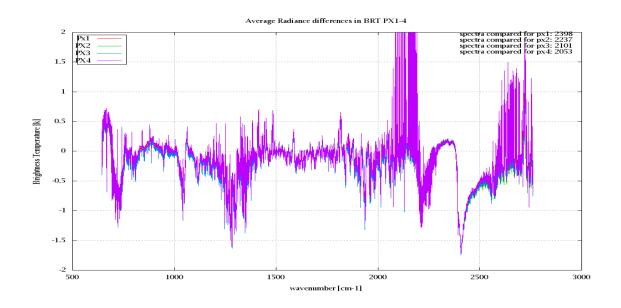


Figure 6: Average radiance differences: OBS-CAL

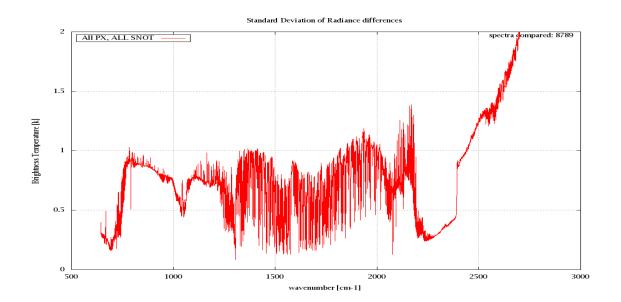


Figure 7: Standard deviation of radiance differences

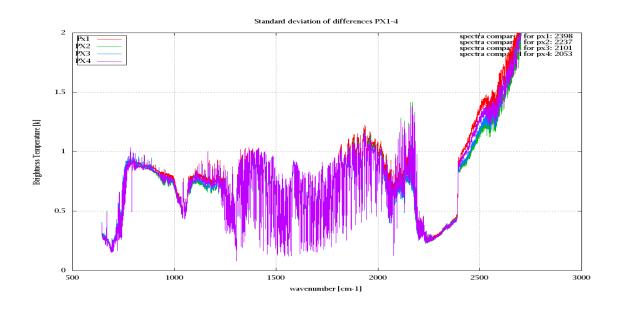


Figure 8: Standard deviation of radiance differences per pixel

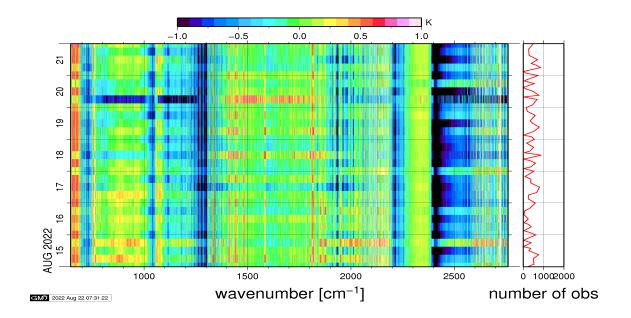


Figure 9: Radiance bias in BRT: All Channels

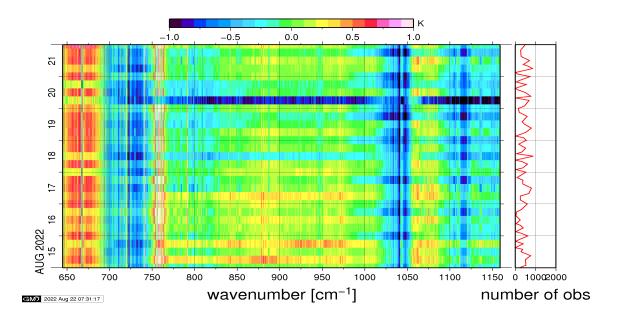


Figure 10: Radiance bias in BRT: IASI Band 1

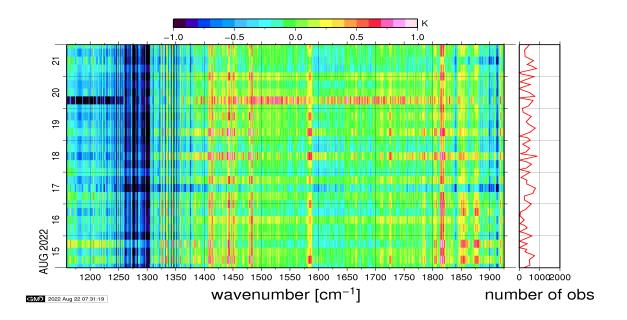


Figure 11: Radiance bias in BRT: IASI Band 2

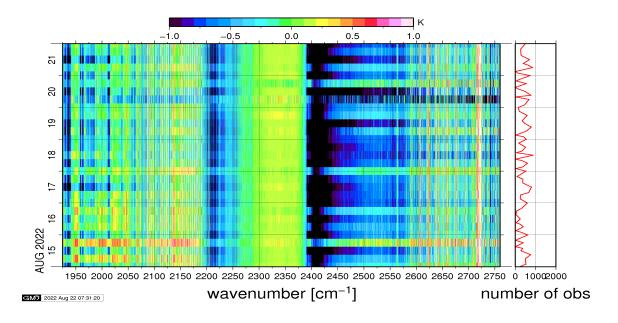


Figure 12: Radiance bias in BRT: IASI Band 3

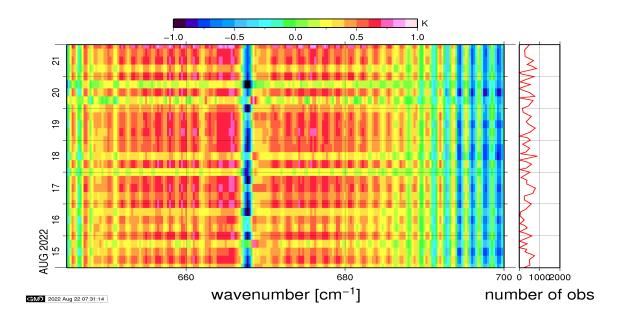


Figure 13: Radiance bias in BRT: CO2 14

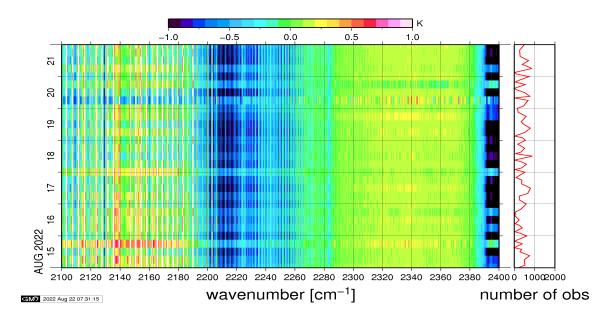


Figure 14: Radiance bias in BRT: CO2~4.3

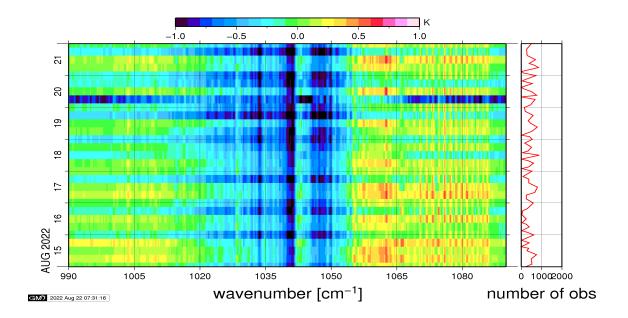


Figure 15: Radiance bias in BRT: O3

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

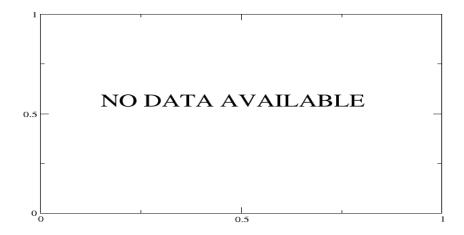


Figure 17: Standard Deviation of Radiance Differences 1h Average



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



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