IASI L0 and L1 Weekly Monitoring Report Metop-A

IASI monitoring team

13/01/2020 00:00:00 - 20/01/2020 00:00:00 (Week 03)

1 Introduction

This report provides summary monitoring plots and figures from IASI instrument on the MetOp-A satellite retrieved from the IASI L0 and L1 ENG product (3 minute data packet) for 13/01/2020 00:00:00 - 20/01/2020 00:00:00.

The monitoring data are extracted on PDU basis.

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

2 Data quantity 13/01/2020 00:00:00 - 20/01/2020 00:00:00

Product Type	Number	Action
L0 HKTM PDUs	3361	-
L0 IASI PDUs	3361	-
L1 ENG PDUs	3360	-
L1 ENG distinct GEPSGranule	3361	-
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

13/01/2020 00:00:12	Time	Transition from	Transition to
13/01/2020 11:48:12	13/01/2020 00:00:12	-	Normal operation
13/01/2020 11:48:12	13/01/2020 11:25:32	Auxiliary ASE synchronised	External calibration
13/01/2020 13:05:00 Normal operation Normal operation Auxiliary ASE synchronised External calibration 13/01/2020 13:06:52 Auxiliary ASE synchronised External calibration 13/01/2020 13:30:52 External calibration Auxiliary ASE synchronised 13/01/2020 13:30:52 External calibration Auxiliary ASE synchronised 13/01/2020 13:32:44 Auxiliary ASE synchronised Normal operation Auxiliary ASE synchronised 13/01/2020 14:48:28 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 15:33:16 External calibration Auxiliary ASE synchronised 13/01/2020 15:33:16 External calibration Auxiliary ASE synchronised 13/01/2020 15:35:08 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 16:30:20 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 17:25:00 External calibration Auxiliary ASE synchronised 13/01/2020 18:11:40 Normal operation Auxiliary ASE synchronised 13/01/2020 18:11:33 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 19:12:44 External calibration Auxiliary ASE synchronised 13/01/2020 19:14:52 Auxiliary ASE synchronised Normal operation Auxiliary ASE synchronised 13/01/2020 20:05:04 External calibration Auxiliary ASE synchronised 13/01/2020 20:05:04 External calibration Auxiliary ASE synchronised 13/01/2020 20:55:44 External calibration Auxiliary ASE synchronised 13/01/2020 20:55:34 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 21:57:32 Auxiliary ASE synchronised External calibration Auxiliary ASE synchronised 13/01/2020 23:46:19 Normal operation Auxiliary ASE synchronised 13/01/2020 23:46:19 Normal operation Auxiliary ASE synchronised 14/01/2020 00:24:59 External calibration Auxiliary ASE synchronised 14/01/2020 00:26:51 Auxiliary ASE synchronised External calibration Auxiliary ASE sync	13/01/2020 11:46:20	External calibration	Auxiliary ASE synchronised
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			Auxiliary ASE synchronised
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Table 3: Instrument modes

Day	L0 quality	L1 quality	L0 PDUs	L1 PDUs
13/01/2020	99.15 %	98.73 %	480	480
14/01/2020	99.24 %	99.01 %	480	480
15/01/2020	99.48 %	99.48 %	480	480
16/01/2020	99.48 %	99.48 %	480	480
17/01/2020	99.46 %	99.46 %	480	480
18/01/2020	99.44 %	99.44 %	480	480
19/01/2020	99.43 %	99.41 %	480	480

Table 4: Quality overview

4 L0 and L1 Data Quality

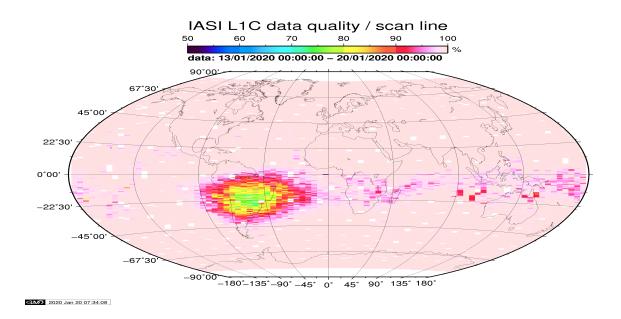


Figure 1: L1C data quality

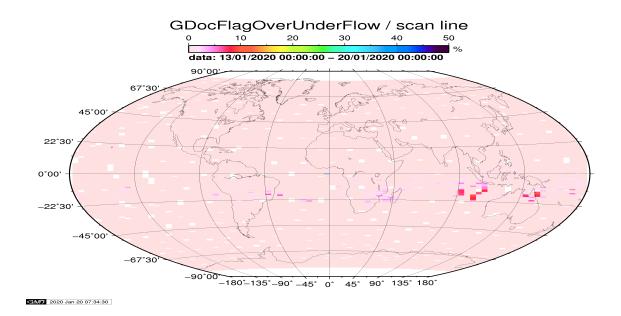


Figure 2: Flag of Over and Under Flows

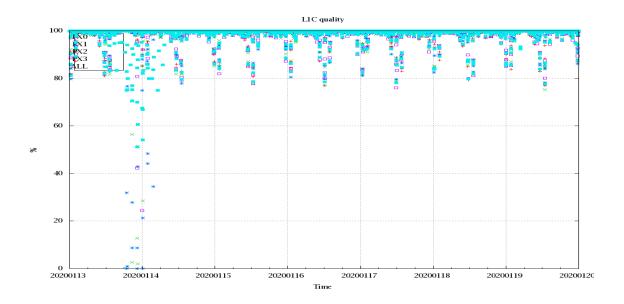


Figure 3: Level 1C quality

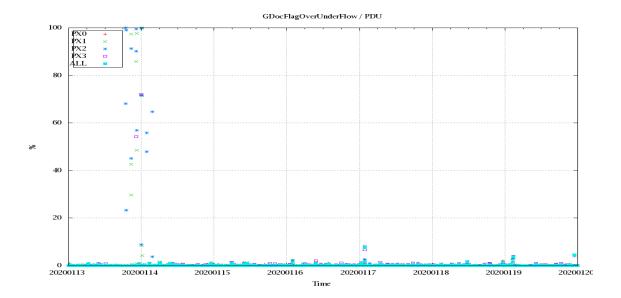


Figure 4: OverUnderFlowFlag timeseries

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).

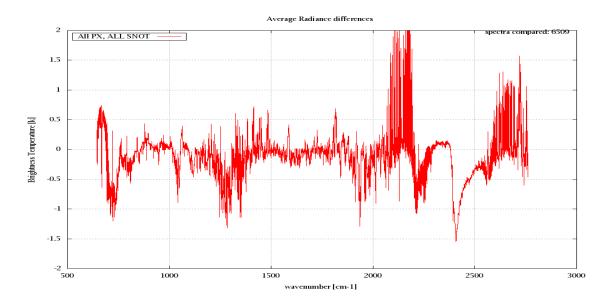


Figure 5: Average radiance differences: OBS-CAL

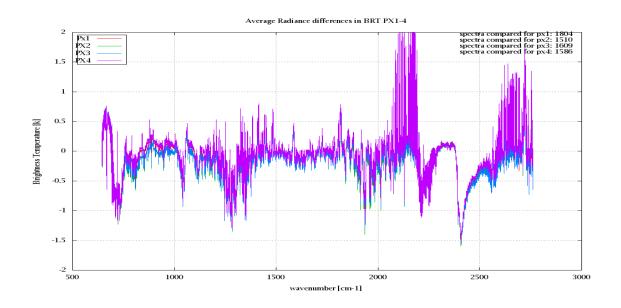


Figure 6: Average radiance differences: OBS-CAL

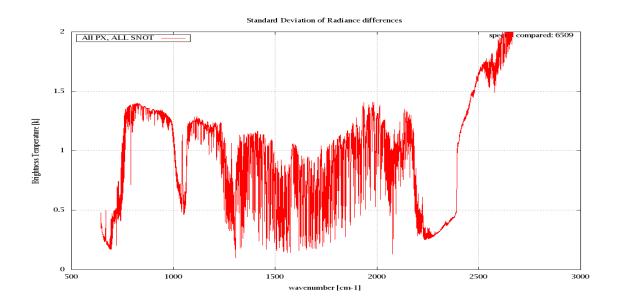


Figure 7: Standard deviation of radiance differences

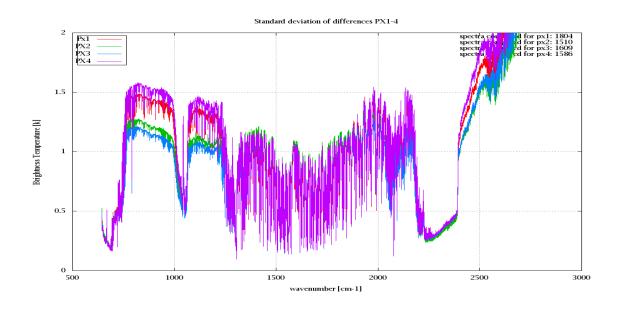


Figure 8: Standard deviation of radiance differences per pixel

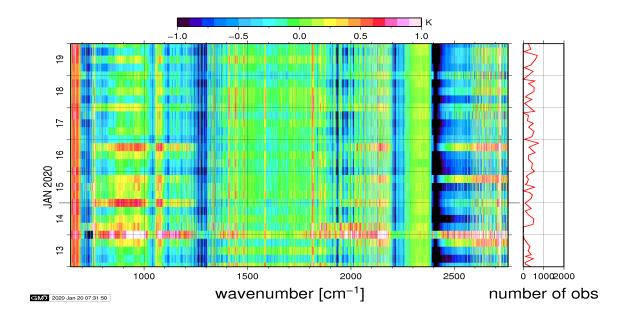


Figure 9: Radiance bias in BRT: All Channels

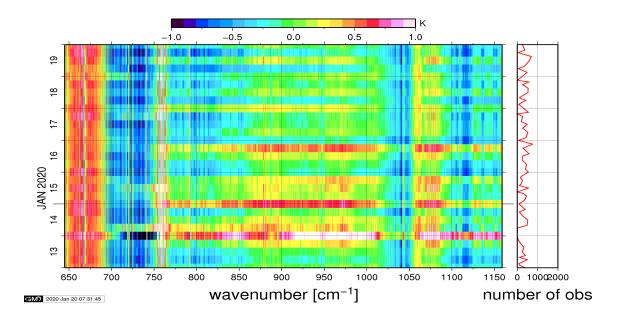


Figure 10: Radiance bias in BRT: IASI Band 1

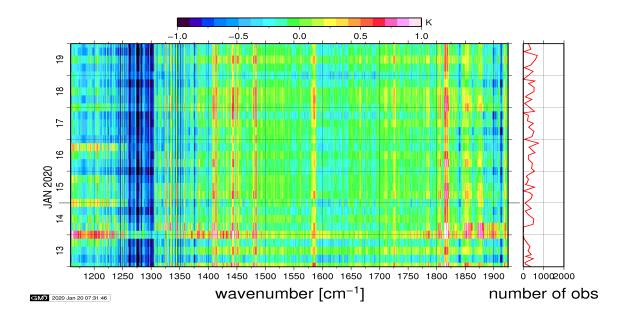


Figure 11: Radiance bias in BRT: IASI Band 2

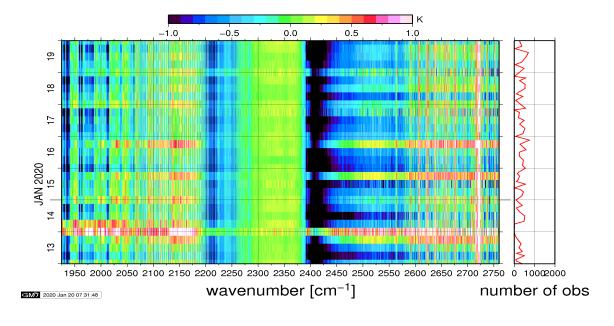


Figure 12: Radiance bias in BRT: IASI Band 3

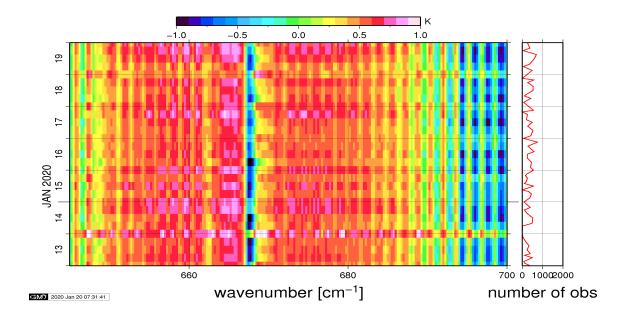


Figure 13: Radiance bias in BRT: CO2 14

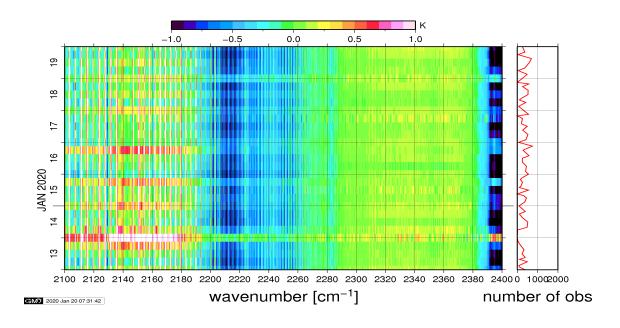


Figure 14: Radiance bias in BRT: CO2~4.3

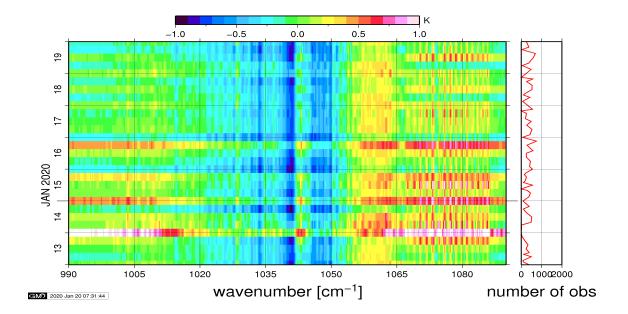


Figure 15: Radiance bias in BRT: O3

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

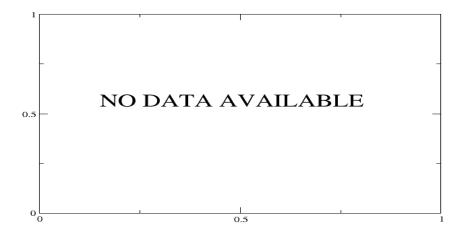


Figure 17: Standard Deviation of Radiance Differences 1h Average

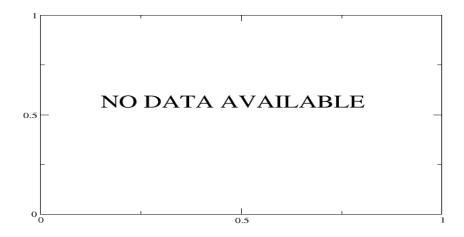


Figure 18: Radiance Differences in BRT 1h Average - Clear Sky



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