



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office
INFORMATION PAPER

MET/TF/3— IP/05
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**Third Meeting of the North American, Central American and Caribbean Working Group (NACC/WG)
Implementation of Aeronautical Meteorology (MET) Task Force (MET/TF/3)
Mexico City, Mexico, 9 to 12 December 2025.**

Agenda Item 4: Data Formats and Interoperability Standards for Data Exchange

**UPDATE ON ICAO METEOROLOGICAL INFORMATION EXCHANGE MODEL (IWXXM) TRANSMISSION VIA
AMHS BY THE US**

(Presented by United States)

EXECUTIVE SUMMARY

A brief overview of the IWXXM status in the United States by the Washington IROG/RODB/OPMET Databank.

*Strategic
Objectives:*

- Air Navigation Capacity and Efficiency

References:

N/A

1. INTRODUCTION

1.1 The Washington Inter-Regional OMET Gateway (IROG) has been going through upgrades over the past five years to be able to consume IWXXM and exchange IWXXM via the Federal Aviation Administration's (FAA) SWIM (System Wide Information Management) and the National Weather Service's AMHS (Aeronautical Message Handling System). Multiple testing has been ongoing between the US Meteorological Authority (FAA), the NACC, and other ICAO Regional States. This information paper will provide an update on those activities.

2. DISCUSSION

2.1 SWIM is a program that provides a secure, system-wide information management architecture for air traffic management. Due to the size and complexity of the US National Air Space, the FAA's Enterprise Architecture, and the communication interface between the National Weather Service (NWS) and the FAA, development and testing has been ongoing from 2020-2025 in order to ensure safe integration of OPMET information in the IWXXM form. The current routing for IWXXM in the North American Region is very limited, and much work is needed to expand AMHS routing for the Americas.

2.2 METAR, TAF, and SIGMET data as part of the IWXXM requirements will be ingested into SWIM and securely shared and managed to support modern aviation. This allows for enhanced situational awareness, improved coordination, and more efficient operations for all stakeholders.

2.3 Recent testing this year involves the following:

- June of 2025, US successfully sent and received IWXXM OPMET to the London IROG
- September of 2025, discussions with the Brazilian IROG, US IWXXM emailed for analysis
- October-Nov of 2025 limited testing/discussion using email for analysis of OPMET with Cuba. Testing is ongoing and the next step will be using AMHS

2.4 In early 2026 the Washington IROG will have the capability to send and receive IWXXM OPMET globally. The interchange of IWXXM will be a continued focus area throughout 2026, and will be important to ensuring the OPMET within the NACC is globally available via AMHS. The US is committed to working with its users and partners to improve the IWXXM database for the Washington IROG. While the delay in IWXXM has been unfortunate across the NACC region, we look forward to working together to improve IWXXM availability.

3 Conclusion

3.1 The Meeting is invited to note the information contained in this paper.