



**Agenda Item 5: Follow-up of the implementation of training activities in air navigation and safety in the Region**

**FOLLOW-UP OF THE IMPLEMENTATION OF TRAINING ACTIVITIES IN THE AREA OF METEOROLOGY (MET)**

(Presented by the Secretariat)

<b>SUMMARY</b>	
This working paper presents information on training activities in the MET area since the CIAC/18 meeting and the activities to be carried out during 2020 and 2021.	
<b>References</b>	
<ul style="list-style-type: none"><li>• Summary of teleconferences with MET focal points.</li><li>• Seminar/workshop on the International OPMET Data Bank of Brasilia</li><li>• Seminar/workshop on OPMET messages in IWXXM format</li><li>• Virtual missions to the States</li></ul>	
<b>ICAO strategic objectives:</b>	<i>B – Air navigation capacity and efficiency</i>

**1. Introduction**

1.1 The Secretariat runs a programme of teleconferences throughout the year to discuss issues related to implementations in the MET area.

1.2 Seminars/workshops on the Brasilia International OPMET Data Bank and the exchange of OPMET messages in IWXXM format were delivered this year.

**2. Discussion**

2.1 During the teleconferences held in 2020 and 2021, a review was made of implementations related to the quality management system and the transmission of OPMET messages (METAR, SPECI, TAF, SIGMET, among others) in the IWXXM format, as well as issues related to personnel competencies and space weather.

2.2 Likewise, a review was made of the continuity of meteorological services in the context of the pandemic. The Secretariat also conducted five virtual missions to verify the level of implementation of the Basic Building Blocks (BBBs) in member States.

2.3 The Secretariat, with the support of the Brasilia International OPMET Data Bank (IODB), conducted two seminars/workshops as follows:

- a) NACC/SAM workshop on the operation of the IODB and its new functionalities
- b) SAM workshop on the infrastructure and training required for OPMET exchange in IWXXM format.

2.4 The workshops had an ample participation of State delegates from the MET, CNS, AIM and even ATM areas. They issued recommendations for the implementation of OPMET exchange in IWXXM format.

2.5 The Secretariat, in collaboration with the IODB, has promoted testing of OPMET message exchange in IWXXM format with the States of Argentina, Ecuador, Paraguay and the OPMET data bank. Likewise, the Interface Control Document (ICD) of version 3.0 of the Brasilia Regional OPMET Data Bank has been submitted.

2.6 On the same topic, the Secretariat is preparing the Regional IWXXM Implementation Guide, and is reviewing and updating the data catalogue of the Brasilia International OPMET Data Bank.

2.7 The SAM Region, with the support of the Regional Project, has promoted training courses in the MET area to develop aeronautical meteorological information management capabilities in the States. The courses contracted for this year are:

- QMS lead auditor course: For 22 delegates, with the support of Project RLA/06/901
- Workshop on formulation of indicators: Three workshops have been carried out. They were not exclusively addressed to MET professionals, but delegates from this area participated in these workshops.
- SIGMET workshop scheduled for November 2021.
- Coordination exercise between MWOs for the issuance of continuous and homogeneous SIGMETs.

### **Training activities foreseen for 2022**

2.8 In order to build IWXXM and SWIM capabilities in the States, an ATM/AIS/COM/MET coordination meeting/workshop will be held.

2.9 Likewise, a workshop on SIGMET/AIRMET/aerodrome advisories is to be held to strengthen the capacity of States to prepare advisories on phenomena that could compromise safety and comfort of operations.

2.10 Finally, there are plans to deliver a QMS/MET lead auditor course to strengthen QMS/MET systems implemented in the MET processes of the States, and thus ensure the quality of MET messages and information delivered to support international air navigation.

**3. Suggested action**

3.1 The Meeting is invited to:

- a) take note of the training activities carried out since the CIAC/18 meeting and those planned for the year 2022;
- b) consider activities that may be planned and developed by training centres to assist their States to meet the requirements concerning qualifications, competencies, professional education and training of personnel;
- c) consider activities that may be planned and developed by training centres in order to assist their States to build capacity in the areas of space weather and IWXXM; and
- d) study the possibility for training centres in the Region to include MET in the programme of courses for 2022.

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