



Agenda Item 1: Follow-up to the implementation of air navigation priorities

FOLLOW-UP TO MET IMPLEMENTATION GOALS

(Presented by the Secretariat)

SUMMARY

This working paper refers to GREPECAS Programmes and Projects in the MET area, and presents the progress made by SAM States, Territories and international organisations in the implementation of the quality management system (MET/QMS) and the status of implementation of IAVW, volcanic ash contingency plans, IWXXM implementation, and the new requirements introduced by Amendment 78 to ICAO Annex 3.

References

- Eighteenth meeting of GREPECAS, Punta Cana, Dominican Republic, 9-13 April 2018
- Fifth Meeting of Air Navigation and Flight Safety Directors, Lima, Peru, 20-22 August 2018
- Annex 3 – *Meteorological service for international air navigation*
- Doc 9750 – GANP
- Doc 10003 - *Manual on the digital exchange of aeronautical meteorological information*
- Report on the COM/MET Meeting, Lima, Peru, 23 to 25 April 2019
- Report on the SAM/IG/23 Meeting, Lima, Peru 20 to 24 May 2019

ICAO strategic objectives:

- *A – Safety*
- *B – Air navigation capacity and efficiency*

1. Introduction

1.1 The Eighteenth meeting of GREPECAS reviewed the status of implementation of the MET Programme.

1.2 The Fifth Meeting of Air Navigation and Flight Safety Directors reviewed MET implementation priorities.

1.3 Amendment 78 to Annex 3, effective on November 2018, included new requirements on space weather, IWXXM implementation and other aspects related to the qualification of aeronautical meteorological personnel.

1.4 The COM/MET Meeting reviewed the issues related to the exchange of OPMET messages, as well as the implementation of the new IWXXM GML formats.

1.5 The SAM/IG/23 Meeting reviewed MET topics that require coordination with the ATM and CNS areas.

1.6 The GANP includes B0-AMET in the ASBU methodology, which is part of the connecting thread of SWIM in the evolution to Block 2.

2. Discussion

2.1 The AN&FS/5 Meeting analysed the progress made in the achievement of goals concerning MET requirements. It also took note of priority issues in the MET area for the period 2018-2022.

2.2 The GREPECAS/18 meeting reviewed activities in the MET area. It noted that, regarding MET/QMS implementation, the States of **Brazil, Chile, Panama, Paraguay, and Peru** had been certified under ISO 9001:2015. In this regard, the Secretariat received information from the other States, as follows:

- **Argentina:** Is in the process of aligning the MET/QMS to the new requirements and extending its scope. Certification audits are being scheduled for the end of 2019.
- **Bolivia:** Has completed the implementation process. Certification is still pending.
- **Colombia:** Certified under version 2008. There is no information available on alignment to the requirements of ISO 9001 version 2015.
- **Ecuador:** Continues in the implementation process.
- **Guyana:** Completed the process of implementation and alignment to the requirements of version 2015. The certification process has not started.
- **Suriname:** Certified under version 2008. There is no information available on alignment to the requirements of ISO 9001 version 2015.
- **Uruguay:** The MET/QMS implementation process has been reformulated due to changes in INUMET authorities. They are currently in the process of adjusting the previous system to include the new requirements of version 2015.
- **Venezuela:** The MET/QMS implementation process in SERMETAVIA has been completed. The certification process has not started.

2.3 Regarding the volcanic ash contingency plan, States have updated their points of contact for meteorological watch offices. Likewise, those States that have volcano observatories have implemented VONA (Volcano Observatory Notice for Aviation). Even Argentina is reviewing the agreement among ANAC, EANA, SMN and SEGEMAR in order to update the information on points of contact and procedures.

2.4 With regard to the implementation of the exchange of OPMET messages in IWXXM GML format, the Meeting should consider the need to adapt AMHS terminals, meteorology users to transmit and receive AMHS messages with content (weather information) in the new IWXXM format. This situation was reviewed by the COM/MET Meeting, and in it, the States were recommended to establish communication tests in relation to the transmission of OPMET data in IWXXM GML format. The meeting will remember that this requirement becomes a STANDARD or NORMA from November 5, 2020. Additionally, SAM / IG / 23, reviewed this point and issued Conclusion SAM/IG/23-03, in relation to the

terminals of AMHS for users of Aeronautical Meteorology.

2.5 In relation to the contingency plans for the release of radioactive material, the SAM/IG/23 Meeting also analyzed the point. In this respect, the Conclusion SAM/IG/23-04 was issued. Currently, Argentina has a simulation at a national level that includes aviation, and Panama has made contacts with the authority of the Panama Canal to work on the issue of radioactive material.

2.6 The Meeting should also consider the training of MET personnel to face the new requirements introduced by Amendment 78 to Annex 3, as well as the necessary infrastructure, mainly related to communication networks.

2.7 The COM/MET Meeting also analyzed two issues related to meteorological surveillance of FIRs. The first is in relation to the continuity of the SIGMETs referring to the same phenomenon, but affecting different FIRs at the same time, and the second is in reference to the affectation of the air operations, particularly during the year 2018, which were seen affected by thunderstorms, icing and severe turbulence.

2.8 In this respect, it was recommended that the States establish coordination among the Meteorological Surveillance Offices involved in the monitoring of meteorological phenomena in order to provide continuous and homogeneous information.

2.9 On the second point, a Coordination was first established with the RASG-PA, through which an Advisory Circular was sent. In the MET area, the States were recommended to work in Workshops on SIGMET for the entire aeronautical community (ATCO, Pilots, DOV, MET personnel, among others).

2.10 Additionally, the Meeting should observe the priorities in the implementation of the MET area. It is important to remember that the implementation requires that the systems be interoperable. The basis of the interoperability of data and systems requires that the elements of the B0-AMET module be finally interoperable with the elements of the B0-DATM, essential modules of the PIA 2.

3. **Suggested action**

3.1 The Meeting is invited to:

- a) take note of the information presented herein;
- b) review and discuss the activities for MET/QMS implementation and certification;
- c) review and discuss activities for the implementation of OPMET data in IWXXM GML format;
- d) take any other action it may deem appropriate.