



Attachment A

ICAO SOUTH AMERICAN REGIONAL OFFICE

NEMOTECNIC PAPER – MET 01

RLA/06/901 – MET Coordination Meeting for the SAM Region (29 November to 1st December, 2021)

**Regional
strategy for
implementation
in the area of
Meteorology in
the SAM Region**

✓ **Until December 2020:**

- Promote and support the alignment of the Quality Management Systems implemented in the Aeronautical Meteorological Service Providers to the 2015 version of the ISO 9001 Standard, and the certification, by a certifying entity, of the systems implemented.
- Promote the implementation of OPMET messages in IWXXM format and their exchange in the aforementioned format.
- Promote the implementation of space meteorology services

✓ **Until December 2022:**

- Support and promote the participation of aeronautical meteorological services in multilateral working groups, in the States, to establish collaborative decision-making (CDM and A-CDM) in the provision of air navigation and aerodrome services.
- Support and promote the integration of OPMET messages with aeronautical information services messages, to converge with information management in a SWIM environment.
- Review the implementation of Contingency Plans for Volcanic Ash and Radioactive Material
- Review ATS / MET Service Agreements
- Review the use of the SIGMETs Message Emission Guide

✓ **Continous tasks:** Follow up:

- a) Maintenance of QMS / MET certifications
- b) Volcanic Ash Exercises every year, for 24 hours.
- c) Implementation of opportunities to improve the efficiency of the exchange of OPMET messages
- d) Correct use of OPMET message formats
- e) Implementation of MET equipment (AWOS, RADAR, etc)
- f) Follow up on the correct implementation of aerodrome and SIGMET alert messages.
- g) Follow up on the implementation of the Space Meteorology services

ICAO Strategic Objectives	<ul style="list-style-type: none"> - Operational safety - Capacity and Efficiency - Environmental Protection
Purpose of the meeting	<p>Evaluate and monitor the activities developed under the MET Program Projects and align them with the ASBU.</p> <p>Evaluate the Implementation of Contingency Plans for Volcanic Ash and Release of Radioactive Material</p> <p>Evaluate the Review and update of the ATS / MET Service Agreements</p>
Activities carried out by the SAM Region on MET Projects	<ul style="list-style-type: none"> ✓ Lima, Peru, 2015, First Meeting of MET Projects, only for the SAM Region. ✓ Workshop on SIGMET and QMS in Uruguay, 2015 ✓ 2016: SIGMET workshops in Colombia, Suriname and Guyana on SIGMET and alert messages for aerodromes ✓ 2016, Forecast SIGMET Workshop in Lima, Peru ✓ 2016, Workshop on Risk Assessment and Management of Aeronautical Meteorological Services (Adaptation of the QMS / MET to the 2015 version) ✓ Lima, Peru, 2017, Second Meeting of MET, CAR / SAM Projects ✓ Lima, Peru, 2017, Course on Updating of Auditors for QMS / MET (Update to ISO 9001: 2015) ✓ Lima, Peru, 2017, Seminar on SWIM and XML Messages ✓ Panama, Peru 2018, Seminar on Space Meteorology and IWXXM ✓ Lima, Peru, 2019, Third Meeting of GREPECAS MET Projects ✓ Virtual, 2020, Informal MET Meetings for the evaluation of MET services in the context of the COVID-19 pandemic ✓ 2021, Virtual Missions for verification of BBBs to the States of Argentina, Bolivia, Ecuador and Venezuela. ✓ Virtual, April 2021, Workshop on the International OPMET Bank of Brasilia ✓ Virtual, May 2021, Seminar / Workshop on adaptation of Aeronautical Meteorology Systems to the new IWXXM format
Current situation of the SAM Region regarding the development of implementations related to the MET area	<p>a) Implementation and Certification of the QMS / METY</p> <ul style="list-style-type: none"> - Implementation and certification of the QMS / MET, version 2015 in seven States. - QMS Implemented, but not certified in four States. <p>b) Efficiency of OPMET messages</p> <ul style="list-style-type: none"> - The Brasilia OPMET Data Bank carries out 4 annual controls. They are analyzed to verify efficiency. In 2020, a decrease in the percentages of efficiencies has been observed. - Opportunities to improve the emission of SIGMETs have been observed <p>c) Implementation of OPMET messages in IWXXM format and their exchange in this format</p> <ul style="list-style-type: none"> - The States of Brazil and Argentina already have the capacity to exchange OPMET messages in IWXXM format - The States of Ecuador, Panama, Peru, Uruguay and Venezuela have software that translates OPMET messages, from the TAC format to

	<p>IWXXM, but they are not yet in a position to exchange them in the IWXXM format.</p> <p>d) Participation of MET services in a CDM environment:</p> <ul style="list-style-type: none"> - Implemented in three States. <p>e) Exercises on Volcanic Ashes: every year, for 24 hours with a proposal to do it every two years.</p>
Nature of the event	<p>The event is a Meeting where the continuation of the MET Projects is analyzed, and if necessary, anticipating updates or completion of the same. The results of this meeting are submitted to the CRPP or the GRPECAS meeting. The meeting takes place every two years.</p> <p>In addition, other implementation of other elements of the MET area is analyzed.</p>
Competences that the event will generate	<p>Take note of the opportunities for improvements in the provision of aeronautical meteorological services in all aspects.</p>
Participants profile	<ul style="list-style-type: none"> ✓ MET personnel in charge of decision-making at managerial level ✓ MET personnel in charge of decision-making at the technical level. ✓ ICT staff that provides support to aeronautical meteorological services ✓ MET personnel in charge
Next Steps in Strategy Development	<p>According to the timeframes of the regional strategy:</p> <ul style="list-style-type: none"> ✓ Continue to monitor the implementation and certification of the QMS / MET ✓ Continue monitoring the implementation of the OPMET message in IWXXM format ✓ Promote the integration of MET data with AIS data ✓ Continue to monitor the efficiency of the OPMET exchange ✓ Promote the participation of MET services in CDM and A-CDM environments
Contact staff in the SAM Office	<p>Mr. Jorge Armoa Cañete Regional Officer for Aeronautical Information Management and Aeronautical Meteorology ICAO South American Regional Office jarmoa@icao.int</p>