



Attachment B

ICAO SOUTHAMERICAN REGIONAL OFFICE

MNEMOTECNIC PAPER – MET 02

RLA/06/901 – Workshop on SIGMET, AIRMET, GAMET, Wind Shear Warnings and Aerodrome Warnings	
Regional strategy for the implementation in the area of Meteorology in the SAM Region, related to these types of messages	<ul style="list-style-type: none"> ✓ Until December 2023: <ul style="list-style-type: none"> - Promote the preparation of all types of SIGMET messages, and other types of warning messages, according to the density of traffic at low levels, by all meteorological watch offices. - Promote the preparation of aerodrome warnings for all international airports that are listed in the AOP Tables of Vol. I and II of the e-ANP CAR / SAM, of the SAM Region. - Promote the evaluation study, for all international airports that are listed in the AOP Tables of Vol. I and II of the e-ANP CAR / SAM, of the SAM Region, on the operational need to prepare wind shear warnings - Promote the evaluation of whether it would be necessary to establish an Air Navigation Agreement for the preparation and issuance of AIRMET and GAMET messages at the international level ✓ Continuous tasks: Follow up to: <ul style="list-style-type: none"> a) Correct preparation of SIGMET messages (format) b) Preparation of SIGMET messages when situations so warrant (meteorological, ash or volcanic eruptions, release of radioactive material, etc.). c) Studies evaluating conditions that warrant the preparation of wind shear warnings d) Preparation and dissemination, at the local level, of aerodrome warning messages to support the implementation of the GRF
ICAO Strategic Objectives	<ul style="list-style-type: none"> - Safety - Capacity and Efficiency - Environmental Protection
Purpose of the meeting	<ul style="list-style-type: none"> - Evaluate the preparation of SIGMET messages for the FIRs in all necessary cases and their use in planning operations; - Provide an introduction to an assessment of the context of low-level air operations and the probability of generating Regional Air Navigation Agreements for the dissemination of AIRMET and GAMET messages at the regional level

	<ul style="list-style-type: none"> - Provide tools related to meteorological satellite images and numerical prediction models to support the preparation of SIGMETs, AIRMETs and Aerodrome Warnings; - Evaluate the impact of the Aerodrome Warnings messages on the new GRF format
Activities carried out by the SAM Region on SIGMET, AIRMET, GAMET messages	<ul style="list-style-type: none"> ✓ 2015, Lima, Peru, First Meeting of MET Projects, only for the SAM Region. ✓ 2015, Workshop on SIGMET and QMS in Uruguay, ✓ 2016: SIGMET workshops in Colombia, Suriname and Guyana on SIGMET and alert messages for aerodromes ✓ 2016, Forecast SIGMET Workshop in Lima, Peru ✓ Every year: SIGMET emission exercises for Volcanic Ash ✓ 2018: Update of the SIGMET Emission Guide aligned to the Document prepared by the MET Panel ✓ 2021: Virtual Workshop on SIGMET messages
Current situation of the SAM Region regarding the preparation and dissemination of SIGMET, AIRMET, GAMET messages, Aerodrome Warnings, Wind Shear Warnings	<ul style="list-style-type: none"> - The Brasilia OPMET Data Bank carries out 4 annual controls. In the last reports of 2020, opportunities for improvements in the emissions of SIGMETs have been observed in some States; - The first contacts have been established with the States to establish coordination procedures between Meteorological Watch Offices of adjacent FIRs, for the preparation of continuous and homogeneous SIGMET when a phenomenon affects more than two FIRs; - The first evaluations have been made of the possibility of establishing a Regional Air Navigation Agreement for the issuance of AIRMET and GAMET messages; and - The preparation of Contingency Plans for Volcanic Ashes and Release of Radioactive Material has been promoted.
Nature of the event	<p>The event is a Meeting where the impact of the SIGMET, AIRMET, GAMET messages, Aerodrome Warnings, Wind Shear Warnings on operational safety will be analyzed.</p>
Competences that the event will generate	<p>Take note of the opportunities for improvements in the preparation and dissemination of SIGMET, AIRMET, GAMET messages, Aerodrome Warnings and Wind Shear Warnings.</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 of preparing OPMET messages for the FIRs and for the aerodromes

<p>Next Steps in Strategy Development</p>	<p>According to the timeframes of the regional strategy:</p> <ul style="list-style-type: none"> ✓ Workshop on the same messages, but with all interested parties (ATCO, DOV, Industries, International Associations, OMM, etc) ✓ Evaluate the achievements of the Workshop through random controls in the correct application in the States. ✓ Continue with the SIGMET exercises for Volcanic Ash ✓ Prepare, in coordination with ATM and AIM, the performance of VOLCEX exercises by 2023. ✓ Request support from Meteorological Agencies for the use of Satellite Products and Numerical Models that can support the preparation of these messages.
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