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**Agenda Item 1: Review follow-up action on:**

**a) Reports of AERMETSG/8 and GREPECAS/14 Meetings**

(Presented by the Secretariat)

<b>Summary</b>
<p>This working paper reviews the actions taken by GREPECAS, the States/Territories/International Organizations and ICAO on the Conclusions formulated by the Eighth Meeting of the AERMET Subgroup.</p>
<p><b>References:</b></p> <ul style="list-style-type: none"><li>• AERMETSG/8 Meeting Report</li><li>• GREPECAS/14 Meeting Report</li><li>• GREPECAS Procedural Handbook</li></ul>



**1. Introduction**

1.1 The AERMET Subgroup, during its Eighth Meeting and in accordance with GREPECAS Procedural Handbook, adopted fourteen (14) “Draft Conclusions” and one (1) “Draft Decision”, requiring further actions by GREPECAS prior to their implementation, and four (4) “Decisions”, related with certain activities and internal operational arrangements of the Subgroup.

**2. Discussion**

2.1 **Appendix A** to this working paper presents the Draft Conclusions formulated by the AERMETSG/8 Meeting, corresponding conclusions adopted by GREPECAS/14, and actions taken by the Air Navigation Commission (ANC), as well as by CAR/SAM States/Territories/International Organizations and/or ICAO Secretariat.

**b) Review of GREPECAS Conclusions in the MET field pending of implementation**

2.2 In **Appendix B**, the Meeting will find an updated list with GREPECAS conclusions in the MET field, formulated in previous meetings, which were valid in the Eighth Meeting of the Subgroup.

**3. Action proposed**

3.1 The meeting is invited to review the information presented in Appendices A and B to this working paper and to propose, if necessary, measures to foster the implementation or deletion of conclusions not yet implemented.

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## APPENDIX A

## ACTIONS TAKEN ON CONCLUSIONS OF AERMETSG/7 AND GREPECAS/13 MEETINGS IN THE MET FIELD

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
Proyecto Conc.8/1	Conc. 14/15	<p><b>Review of agreements between civil aviation administrations and MET authorities in CAR States/Territories</b></p> <p>That CAR States/Territories that have delegated the provision of aeronautical meteorological services to the national meteorological service review their agreements with the meteorological authorities in order to improve the service and the rate of response to aeronautical meteorology communications received from the NACC Regional Office.</p>		<p><b>Completed</b></p> <p>Letter to States from Mexico Office – EMX0920 of 26/09/07</p> <p>Depending on the States’ response and the information to be completed during the meeting, the rate of implementation of CAR States will be known.</p> <p>The Secretariat will make the follow-up until obtaining the highest implementation rate.</p>
Proyecto Conc. 8/2	Conc. 14/16	<p><b>Call plan diagram of the aerodrome volcanic ash emergency committee</b></p> <p>That CAR/SAM States/Territories use the call plan diagram, which includes contact information (name, position, telephone and cellular phone) of all members of the Aerodrome Volcanic Ash Emergency Committee, as shown in <b>Appendix I</b> to this part of the Report</p>		<p><b>Completed</b></p> <p>Letter to States from Lima Office - LT 2/8.0.14-SA515 of 20/07/07</p> <p>Depending on the States’ response and the information to be completed during the meeting, the rate of implementation of CAR and SAM States will be known.</p> <p>The Secretariat will make the follow-up until obtaining the highest implementation rate.</p>

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
Proyecto Conc. 8/3	Conc. 14/17	<p><b>Post-flight recording and reporting in the CAR/SAM Regions</b></p> <p>That IATA request airlines operating on CAR/SAM air routes to record and report special aircraft observations of pre-eruption volcanic activity, volcanic activity, or volcanic ash clouds on the special volcanic activity air-report (VAR) form, as specified in Annex 3 and PANS ATM, Doc 4444.</p>		<p><b>Valid</b></p> <p>Letter to IATA – LT 2/8.0.14 -SA514 of 20/07/07</p> <p>Information in this regard is expected to be obtained during the meeting.</p>
Proyecto Conc. 8/4	Conc. 14/18	<p><b>Use of the template for SIGMET and AIRMET messages and special air-reports (uplink)</b></p> <p>That CAR/SAM States/Territories update their procedures in order to make strict use of the template for SIGMET and AIRMET messages and special air-reports (uplink), particularly regarding the location indicator and the name of the FIR/CTA for which the SIGMET is being issued, at the beginning of the second line of the message.</p>		<p><b>Completed</b></p> <p>Letter to States from Lima Office - LT 2/8.0.14-SA515 of 20/07/07</p> <p>Depending on the States' response and the information to be completed during the meeting, the rate of implementation of CAR and SAM States will be known.</p> <p>The Secretariat will make the follow-up until obtaining the highest implementation rate.</p>
Proyecto Conc. 8/5	Conc. 14/19	<p><b>OPMET EXCHANGE CONTROLS IN THE CAR/SAM REGIONS</b></p> <p>That, in order to improve the quality and availability of OPMET information in the CAR/SAM Regions:</p> <ol style="list-style-type: none"> <li>the Brasilia International OPMET Data Bank submit the results of OPMET studies and controls directly to those responsible for OPMET control in the CAR/SAM States/Territories; and</li> <li>the States/Territories establish procedures for controlling the quality and availability of OPMET data in their aerodromes.</li> </ol>	Request certain States to take part in periodic tests related to the correct issuance and dissemination of SIGMETs, volcanic ash advisories, and NOTAMs for volcanic ash (or ASHTAMS).	<p><b>Completed</b></p> <p>Letter to States from Lima Office - LT 2/8.0.14-SA515 of 20/07/07</p> <p>Letter to States from Mexico Office – EMX0708 of 01/08/07</p> <p>Depending on the States' response and the information to be completed during the meeting, the rate of implementation of CAR and SAM States will be known.</p> <p>The Secretariat will make the follow-up until obtaining the highest implementation rate.</p>

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
Proyecto Conc. 8/6	Conc. 14/20	<p><b>Global OPMET data controls</b></p> <p>That in order to improve the reliability of global periodic assessments of OPMET data availability, the SADISOPSG consider the possibility of identifying in Annex 1 to the SADIS User's Guide those aerodromes that issue OPMET data 24 hours a day.</p>		<p><b>Completed</b></p> <p>In column 7 (Remarks) of the Global Database (GODB) corresponding to Annex 1 of SUG and to global Table MET 2A, includes information on the functionality of the aerodrome.</p>
Proyecto Conc. 8/7	Conc. 14/21	<p><b>Review of the transition to the BUFR code</b></p> <p>That ICAO, in order to reduce the possible adverse impact of the transition from the traditional alphanumeric codes to BUFR-coded OPMET messages on the aeronautical community, invite WMO to review, as a matter of urgency, its plans to use BUFR-coded OPMET information.</p>	The Commission (AN Min. 176-4) made a review of this issue and the Secretariat suspended the related work, depending on the results of the work of the Group Experts of WMO on the use of XML.	Pending decision regarding BUFR from WMO CBS (expected by 2009)
Proyecto Conc. 8/8	Conc. 14/22	<p><b>CAR/SAM FASID Table MET 1A</b></p> <p>That Table MET 1A of the CAR/SAM FASID be amended, deleting column 6 (Areas of Coverage of Charts) and column 7 (AFTN Routing Areas).</p>	N/A	<b>Completed</b>
Proyecto Conc. 8/9	Conc. 14/23	<p><b>Amendment procedures for TAF and TREND requirements</b></p> <p>That in order to ensure the currency of information related to the provision of TAF and TREND forecasts to be included in the global database, as of March 2007:</p> <p>a) annual consultations with CAR/SAM States/Territories be carried out in March concerning the issuance of TAFs and TRENDS;</p> <p>b) changes be submitted to the AERMETSG and GREPECAS;</p>	N/A	<b>Completed</b>

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
		<p>c) formal consultations and amendments to the CAR/SAM FASID be made annually by November; and</p> <p>d) the Lima and Mexico Offices forward the amendments to the ICAO MET Section for the updating of the global database annually in December, as appropriate.</p>		
Proyecto Conc. 8/10	Conc. 14/24	<p><b>CAR/SAM FASID Table MET 2A</b> That:</p> <p>a) CAR/SAM FASID Table MET 2A be amended to only include a URL link to the global database with “Availability of OPMET information (METAR/SPECI and TAF) required in ISCS and SADIS,” placed below the title; and</p> <p>b) a new table with OPMET exchange requirements (METAR/SPECI and TAF) in CAR/SAM States/Territories be included in the CAR/SAM ANP.</p>		<b>Completed</b>
Proyecto Conc. 8/11	Conc. 14/25	<p><b>Currency of the information contained in the OPMET database (METAR/SPECI and TAF)</b></p> <p>That in order to ensure the currency of the OPMET database (METAR/SPECI and TAF) that needs to be available in ISCS and SADIS, as of March 2007, the Lima and Mexico Offices, on an annual basis, reconfirm with the relevant States/Territories their agreements for the provision of OPMET data contained in Annex 1 to the SADIS User’s Guide (SUG) on aerodromes not included in Table AOP of the CAR/SAM FASID.</p>		<b>Completed</b>

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
Proyecto Conc. 8/12	Conc. 14/26	<p><b>CAR/SAM FASID Table MET 2B</b></p> <p>That,</p> <p>a) table MET 2B of the CAR/SAM FASID be eliminated; and</p> <p>b) an operational table listing SIGMET exchange requirements in CAR/SAM States/Territories be included as an Appendix to the CAR/SAM SIGMET Guide.</p>		<b>Completed</b>
Proyecto Conc. 8/14	Paragraph	<p><b>Implementation of the requirements concerning the certification and training of MET personnel</b></p> <p>a) in close coordination with MET authorities, take actions to implement standard 2.1.5 of Annex 3 in order to meet the requirements concerning the certification and training of MET personnel; and</p> <p>b) study the possibility of implementing distance learning.</p>		GREPECAS/14 considered that this issue could be discussed in a separate a paragraph and not as a Conclusion.
Proyecto Conc. 8/15	Conc. 14/27	<p><b>ATS/AIS/MET/PILOT Coordination Seminar</b></p> <p>That ICAO, in coordination with WMO, organise an ATS/AIS/MET/Pilot Coordination Seminar for the CAR/SAM Regions.</p>	Took note	<b>Valid</b>
Proyecto Conc. 8/16	Conc. 14/28	<p><b>Special Implementation Project (SIP) for the CAR REGION</b></p> <p>That ICAO consider the need of establishing a MET Special Implementation Project (SIP) for the CAR Region, in order to study and recommend measures for various CAR States/Territories with the purpose of</p>	Took note and requested the Secretariat to review the proposal in accordance with the established practices.	<b>Completed</b> ICAO Council approved the SIP for the CAR Region on 19 March 2008, in the tenth meeting of its Session 183, which will be initiated this year.

Reference Report		Conclusions/Decisions	Action by ANC	Subsequent actions taken by ICAO and/or States/Territories/International Organizations
Conc./Dec. AERMET SG/7	Corresponding Conc./Dec. Adopted by GREPECAS/14			
		<p>specifically solving the problems affecting MET services.</p> <p><i>Note: In order to join efforts for proposing solutions to aeronautical meteorology deficiencies, consideration could be given to the possibility of implementing the SIP in coordination with WMO.</i></p>		

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## APPENDIX B

## CONCLUSIONS/DECISIONS IN THE MET FIELD OF GREPECAS PREVIOUS MEETINGS

Reference Report Conc./Dec.	Conclusions/Decisions	Subsequent Action by ICAO and/or by States/Territories International Organizations
Conc. 10/39	<p><b>Training of Aeronautical Meteorological personnel</b> That ICAO develop and implement a joint project with the WMO to provide short and long term solutions to the lack of trained personnel in the aeronautical meteorological field faced by most of the States in the CAR/SAM Regions.</p>	<b>Valid</b>
Conc. 11/60	<p><b>Second CAR/SAM Regional Workshop on Aeronautical Meteorology services costs recovery</b> That ICAO, in close coordination with the WMO, organizes and hold, as soon as possible, the Second Regional Workshop on aeronautical meteorology services costs recovery.</p>	<p><b>Completed</b> The seminar was carried out from 13 to 15 December 2006 in Dominican Republic.</p>
Conc. 12/54	<p><b>Active participation of Peru and Brazil in the WAFSOPSG</b> That Brazil and Peru, as members of the WAFSOPSG, participate actively in the tasks of the Group in order to make sure that specific interests of the CAR/SAM Regions are duly taken into account in the future planning of the WAFS.</p>	<p><b>Valid</b> The member of Perú has only participated in one (WAFSOPSG/1, Lima, Peru, 10 – 13 November 2003), of the four meetings carried out to date. RMKS: It is considered valid in order to keep a record of assistance.</p>
Conc. 12/56	<p><b>Updating of the International Airways Volcano Watch contact list in CAR/SAM States/Territories/International Organizations</b> That CAR/SAM States/Territories/International Organizations notify the Lima and Mexico Offices of any changes in the International Airways Volcano Watch (IAVW) contact list.</p>	<p><b>Valid</b> Problems for the States to inform ICAO Regional Offices of the changes in the contact information still persist.</p>
Conc. 12/57	<p><b>Implementation of SIGMET requirements</b> That the Lima and Mexico Regional Offices:</p> <ul style="list-style-type: none"> <li>a) conduct surveys in the CAR/SAM Regions on the issuance of SIGMET messages, particularly those for volcanic ash, in coordination with WMO, and issue a list of deficiencies for follow-up measures; and</li> <li>b) starting in 2004 until 2007, conduct periodical tests on the issuance and reception of SIGMET messages for volcanic ash, during the first week of March and September.</li> </ul>	<b>Completed</b>

<b>Reference Report Conc./Dec.</b>	<b>Conclusions/Decisions</b>	<b>Subsequent Action by ICAO and/or by States/Territories International Organizations</b>
Conc. 12/58	<p><b>Active participation of Argentina as member of the IAVWOPSG</b> That Argentina, as Member of the IAVWOPSG, participate actively in the work of the group to ensure that the specific interests of the CAR/SAM Regions are taken into account in the future planning of the IAVW.</p>	<p><b>Valid</b> The member of Argentina has only participated in two of the three meetings carried out to date. RMKS: It is considered valid, in order to keep a record of assistance.</p>
Conc. 12/66	<p><b>Training on quality management of MET services in the CAR/SAM Regions</b> That WMO organize, in coordination with ICAO, a series of training activities on quality management of meteorological services provided to support international air navigation in the CAR/SAM Regions.</p>	<p><b>Completed</b> The seminar was carried out from 13 to 15 December 2006 in Dominican Republic.</p>
Conc. 12/67	<p><b>Quality assurance systems for Meteorological services in the CAR/SAM Regions</b> That CAR/SAM States/Territories/International Organizations make utmost efforts to establish quality assurance systems for meteorological services provided in support of international air navigation in the CAR/SAM Regions.</p>	<p><b>Valid</b></p>
Conc. 13/16	<p><b>Cost recovery of MET services in the CAR/SAM Regions</b> That the States/Territories/International Organizations, in coordination with the aeronautical meteorological authorities:</p> <ul style="list-style-type: none"> <li>a) establish a method for recovering the costs of aeronautical meteorological services provided in their territory, through the application of charges for air navigation services; and</li> <li>b) include the cost related to the reception and provision of WAFS products, especially charges for the replacement or improvement of workstations and the WAFS software required for receiving these products in GRIB and BUFR codes, and maintenance of the ISCS1 (VSAT) workstation.</li> </ul>	<p><b>Valid</b></p>
Conc. 13/17	<p><b>Survey on ISCS efficacy</b> That ICAO</p> <ul style="list-style-type: none"> <li>a) consult with CAR/SAM States/Territories in order to develop a list of ISCS focal points; and</li> <li>b) in coordination with the WAFS provider State, develop and send to the focal points a survey on ISCS efficacy.</li> </ul>	<p><b>Completed</b></p>

<b>Reference Report Conc./Dec.</b>	<b>Conclusions/Decisions</b>	<b>Subsequent Action by ICAO and/or by States/Territories International Organizations</b>
Conc. 13/19	<p><b>Provision of results of GFS model runs by the Washington WAFC</b> That the WAFSOPSG consider the possibility for the Washington WAFC to disseminate the analysis of the Global Forecast System (GFS) model run to user States concerned.</p>	<p><b>Completed</b> The WAFOPSG in its Fourth Meeting considered that, in accordance with the <i>Working Arrangements between the ICAO and WMO</i> (Doc 7475), analysis of model runs not be disseminated on ICAO AFS satellite Broadcast, which was reflected in Conclusion 3/10.</p>
Conc. 13/20	<p><b>Periodic tests on volcanic ash SIGMETS, volcanic ash advisories, and volcanic ash ASHTAMs or NOTAMs</b> That ICAO invite the Washington and Buenos Aires VAACs and the CAR/SAM NOFs and MWOs to take active part in periodic tests of SIGMETs (WV), volcanic ash advisories, and volcanic ash ASHTAMs or NOTAMs to be carried out according to the procedures agreed by the AERMET Subgroup.</p>	<p><b>Completed</b></p>
Dec. 13/23	<p><b>Development of a Guide for the drafting of emergency plans for aerodromes that might be affected by volcanic ash in the CAR/SAM Regions</b> That the AERMET Subgroup, in coordination with the Secretariat, develop a guide for the drafting of emergency plans for aerodromes that might be affected by volcanic ash in the CAR/SAM Regions.</p>	<p><b>Valid</b></p>
Conc. 13/24	<p><b>Development of a system for early detection of volcanic activity using remote sensors</b> That the IAVWOPSG member from the Buenos Aires VAAC include information on the development of a system for early detection of volcanic activity using remote sensors in the executive report to be presented to the IAVWOPSG/2 meeting.</p>	<p><b>Valid</b></p>
Dec. 13/28	<p><b>Guide for the exchange of OPMET information in the CAR/SAM Regions</b> That the AERMETSG Subgroup, in coordination with the Secretariat, develop a Guide for the exchange of OPMET information in the CAR/SAM Regions.</p>	<p><b>Valid</b></p>