



Agenda Item 1: Review follow-up action on:

a) Reports of AERMETSG/9 and GREPECAS/15 Meetings

(Presented by the Secretariat)

SUMMARY
<p>This working paper reviews the actions taken by GREPECAS, the States/Territories/International Organizations and ICAO on the Conclusions formulated by the Ninth Meeting of the AERMET Subgroup.</p>
<p>References:</p> <ul style="list-style-type: none">• AERMETSG/9 Meeting Report• GREPECAS/15 Meeting Report• GREPECAS Procedural Handbook•

1. Introduction

1.1 The AERMET Subgroup, during its Ninth Meeting and in accordance with GREPECAS Procedural Handbook, adopted sixteen (16) “Draft Conclusions” and two (2) “Draft Decision”, requiring further actions by GREPECAS prior to their implementation, and five (5) “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/9 Meeting, corresponding conclusions adopted by GREPECAS/15, and actions taken by the Air Navigation Commission (ANC), as well as by CAR/SAM States/Territories/International Organizations and/or ICAO Secretariat.

2.2 The Meeting could note that Lima and Mexico Offices sent letters LT 2/8.0.15 – SA310 of 12 May 2009 and N 1/15 – EMX0487 of 14 May 2009 – Follow up on Conclusions formulated by GREPECAS/15 Meeting referred to actions to be followed by States, respectively, however the

percentage of reply was very low, therefore, it is expected that during the Meeting information on the status of implementation of these conclusions could be collected.

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

2.3 **Appendix B** to this working paper, the Meeting will find an updated list with GREPECAS conclusions in the MET field, formulated in previous meetings, which were valid.

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.

APPENDIX A

ACTIONS TAKEN ON CONCLUSIONS OF AERMETSG/9 AND GREPECAS/15 MEETINGS IN THE MET FIELD

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/2	Conc. 15/4	<p>D-VOLMET aeronautical data link requirements in the CAR/SAM Regions</p> <p>That the ICAO NACC and SAM Offices, in coordination with the ICAO SAM Office, amend Part VII Vol. I – ATS of the ANP to reflect the requirement for D-VOLMET aeronautical data link services in the CAR/SAM Regions.</p>	N/A	Valid
Draft Conc. 9/3	Conc. 15/5	<p>Training for CAR/SAM States on the details and use of new WAFS icing, turbulence and convective cloud forecasts derived from GRIB 2 data</p> <p>That the Washington WAFC, in coordination with WMO, be invited to:</p> <ul style="list-style-type: none"> a) starting in 2010 or 2011, provide computer-based training on the applications and use of the new forecasts issued by the WAFS provider States; b) assist the States in English, as necessary; and c) assess the possibility of providing future training on the operation and use of the new WAFS products in English and Spanish. 	The Air Navigation Commission, at the eight meeting of its 181st Session on 23 June 2009, in considering the GREPECAS/15 Report, supported the conclusion and requested the Secretary General to call upon the WAFC Washington Provider State, in coordination with WMO, to organize the required workshop in 2010.	Valid ICAO Secretary General sent on 13 July 2009 the letters: Ref.: AN 10/16.1 SWG 16/1 SWG 20/1 to the FAA; and Ref.: AN 10/16.1 SWG 16/1 to WMO Secretary General.

¹ The list of the States that provide information is included in the Annex to this Appendix

Conc./Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/4	Conc. 15/6	<p>Update on the progress made in ISCS broadcast improvements by the Washington WAFC Provider State</p> <p>That the Washington WAFC provider State be invited to provide timely reports on planned changes to upgrade ISCS-G3 broadcast, taking into account:</p> <p>a) the resources provided by the States that need to switch over to ISCS-G3; and</p> <p>b) the provision of specifications to be met by the States.</p> <p><i>Note: To keep States informed, the Washington WAFC provider State will use the ISCS list of contacts, which is kept updated by the Secretariat.</i></p>	N/A	<p>Valid</p> <p>Draft Letter to Mexico to be forwarded to United States, LT 2/8.0.15/SA184 of 2 April 2008.</p> <p>United States as WAFS and ISCS Provider State will be efficiently providing OPMET data in harmony with Annex 1 to SADIS User guide in October 2009.</p>
Draft Conc. 9/5	Conc. 15/7	<p>Data management reports</p> <p>That the WAFS provider State continue providing reports on data management over their circuits, the scheduled transition date, and the scope of product changes.</p> <p><i>Note: A DM example is provided in Appendix A.</i></p>	N/A	Implemented
Draft Conc.9/6	Conc. 15/8	<p>Update to WAFC workstations to introduce changes to OPMET data</p> <p>That:</p> <p>a) the Washington WAFC provider State provide States and workstation vendors the necessary information on changes to the broadcast of products over the ISCS;</p> <p>b) States take the necessary action to update their workstations for the cut-over planned for 31 August 2008, to input the set of OPMET data; and</p>	N/A	<p>a) Valid</p> <p>United States as WAFS Provider State and ISCS operation will be efficiently providing OPMET data in harmony with Annex 1 to SADIS User guide in October 2009.</p> <p>b) Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May</p>

Conc./Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
		<p>c) States review the existing maintenance service contract for their ISCS workstations, which should provide the necessary support to update the database management programme.</p> <p><i>Note: The Washington WAFIC provider State and the ICAO Regional Offices had taken the necessary action in August 2008, to minimize the impact of these changes on ISCS users.</i></p>		<p>2009</p> <p>c) Valid</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12/05/09 N 1/15 – EMX0487 of 14/05/09</p>
Draft Conc. 9/7	Conc. 15/9	<p>Implementation plan for the transition from GRIB 1 TO GRIB 2 CODE FORM</p> <p>That States take note and appropriate action with respect to the transition plan for the implementation of the GRIB 2 code form adopted by the Fourth Meeting of the WAFS Operations Group (WAFSOPSG/4) presented as Appendix B to this part of the Report.</p>	N/A	<p>Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p>
Draft Conc. 9/8	Conc. 15/10	<p>Letters of agreement between civil aviation and meteorological authorities and the volcanological agency</p> <p>That in order to promptly notify all the parties involved and to mitigate the hazard to air operations within the first few hours following an eruption:</p> <p>a) States make full use of Doc 9766-AN/968, <i>Handbook on the International Airways Volcano Watch (IAVW) - Operational Procedures and Contact List</i>; and</p> <p>b) establish letters of agreement between the parties involved; in particular, the civil aviation and meteorological authorities and the volcanological agency, specifying the agreed responsibilities of each party.</p> <p><i>Note: A sample letter of agreement is presented in Appendix A to Doc 9766-AN/968.</i></p>	N/A	<p>a) Implemented</p> <p>b) Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p>

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/10	Conc. 15/11	<p>Implementation of the Volcano Observatory Notice for Aviation (VONA) format</p> <p>That ICAO urges the States to implement the VONA format in order to:</p> <p>a) improve the transfer of information on volcanic activity to the ACC/FIC, the VAAC, and MWO; and</p> <p>b) provide feedback on the usefulness of the VONA and the adjustments to be considered by the International Airways Volcano Watch Operations Group.</p>	N/A	<p>a) Implemented</p> <p>b) Implemented</p>
Draft Conc. 9/11	Conc. 15/12	<p>Back-up MWOs in the CAR/SAM States</p> <p>That, in order to improve the implementation of an MWO in case of lack of service or service outage, the NACC and SAM Regional Offices compile a list of back-up MWOs to be included in the <i>CAR/SAM Regional SIGMET Guide</i>.</p>	N/A	<p>Implemented</p> <p>WP/05 presents a proposed list of back-up MWO to be included in CAR/SAM SIGMET Guide.</p>
Draft Conc. 9/9	Conc. 15/13	<p>Increased frequency of periodic SIGMET WV tests</p> <p>That, in order to maintain constant feedback and efficiency in the issuance of volcanic ash SIGMETs, the States, in coordination with the corresponding VAACs, carry out periodic tests with bi-annual frequency during the months of May and November. Tests should last 48 hours.</p>	N/A	<p>Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p>

Conc./Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/12	Conc. 15/14	<p>Seminar/workshop on SIGMET information</p> <p>That ICAO, in coordination with WMO and VAAC provider States, organize a seminar on the preparation, issuance, and dissemination of SIGMET information.</p>	<p>The Air Navigation Commission, at the eight meeting of its 181st Session on 23 June 2009, in considering the GREPECAS/15 Report, concurred with GREPECAS and requested the Secretary General to organize the required training in coordination with WMO and VAAC Washington and Buenos Aires Provider States.</p>	<p>Valid</p> <p>ICAO Secretary General sent on 13 July 2009 the letters:</p> <p>Ref.: AN 10/16.1 SWG 16/1 SWG 16/1 to WMO Secretary General.</p> <p>According with previous coordinations with WMO, it was decided to postpone the seminar for 2010. Mexico Office will make the coordinations to carry it out, if possible, in Honduras.</p>
Draft Conc. 9/13	Párrafo 3.3.15 del Informe	N/A	N/A	N/A
Draft Conc. 9/14	Conc. 15/15	<p>Transition to the new TAF format</p> <p>That CAR/SAM States/Territories be encouraged to visit the NWS webpage in order to learn more about the TAF format changes and test their processors with the models provided.</p>	N/A	<p>Implemented</p> <p>Letters to States: LT 2/8.0./15 – SA310 of 12 May 2009 N 1/15 – EMX0487 of 14 May 2009</p>

Conc. /Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/15	Conc. 15/16	<p>Harmonization of the information contained in CAR/SAM FASID Table AOP 1 and in Doc 7910</p> <p>That, in order to harmonize the information contained in Doc 7910 – “<i>Location Indicators</i>” and CAR/SAM FASID Table AOP 1, the ICAO NACC and SAM Offices carry out a detailed review of the information contained in both documents and, as necessary:</p> <p>a) update and amend CAR/SAM FASID Table AOP 1 in accordance with the ICAO amendment procedures; and</p> <p>b) request ICAO to update Doc 7910.</p>	Agreed and requested the Secretary General that the CAR/SAM AOP Table and the information contained in Doc 7910 should be reviewed in order to harmonize the information contained in both documents.	Valid
Draft Conc. 9/16	Conc. 15/17	<p>Proposal for amendment to the CAR/SAM ANP FASID, Part VI – MET</p> <p>That the ICAO NACC and SAM Regional Offices amend Part VI – MET of the CAR/SAM <i>Facilities and Services Implementation Document</i> (FASID) as indicated in Appendix C to this part of the report.</p>	N/A	<p>Implemented</p> <p>The South American Office communicated to States the approval of Proposal for amendment to FASID with Letter a Oficina Sudamericana comunicó LT 2/7.3.13/SA393 of 16 June 2009.</p> <p>On 17 June 2009, the President, on behalf of the Council, approved Proposal for amendment SAM 09/1 – MET and the South American Office communicated its approval to States with Letter LT 2/7.2.113/SA411 of 23 June 2009.</p>

Conc./Dec. AERMET SG/9	Corresponding Conc./Dec. adopted by GREPECAS/15	Conclusion/Decision	Action by ANC	Subsequent action taken by ICAO/States ¹ International Organizations
Draft Conc. 9/17	Conc. 15/1	<p>Development of Performance Based regional and national plans</p> <p>That,</p> <p>a) GREPECAS develop a performance-based regional plan in accordance with the Global Air Navigation Plan and the Global ATM Operational Concept. This plan should include identification of regional performance objectives and completion of performance framework forms for all air navigation areas such as ATM, CNS, AIM, MET and AGA/AOP; and</p> <p>b) States, Territories and International Organizations, taking into account user needs, develop performance-based national plans in accordance with the regional performance objectives included in the Regional Air Navigation Plan. These national plans should encompass identification of national performance objectives and completion of performance framework forms for all air navigation areas such as ATM, CNS, AIM, MET and AGA/AOP.</p>	Noted and that GREPECAS and States are requested to take into account the user expectations in the development of performance framework forms.	Valid
Draft Conc. 9/23	Conc. 15/18	<p>Identification and application of mechanisms for the translation of MET training material and guides</p> <p>That the ICAO NACC and SAM Regional Offices identify and apply mechanisms for translation of digital modules and training material from English into Spanish, as well as the refresher material and guides prepared by the AERMET Subgroup.</p>	N/A	Implemented

ATTACHMENT TO APPENDIX A

IMPLEMENTATION STATUS OF GREPECAS/15 CONCLUSIONS BY THE STATES

STATE	15/5	15/6	15/7	15/8			15/9	15/10		15/11	15/13	15/15
				a	b	c		a	b			
WAFC Washington Provider State					N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CAR REGION												
Anguilla (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Antigua and Barbuda	N/A	N/A	N/A	N/A	N/A	N/A	FS Station	N/A		N/A	N/A	Completed
Aruba (Netherlands)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Bahamas	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Barbados	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Belize	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
British Virgin Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Cayman Islands (United Kingdom)	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Costa Rica	N/A	N/A	N/A	N/A	Valid	Valid	Valid	N/A		N/A	N/A	Completed
Cuba (OVM)	N/A	N/A	N/A	N/A	Valid	Valid	Valid	Valid	N/A	N/A	12/08& 05/09	Completed
Dominica	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Dominican Republic (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Station FS	Valid	N/A	N/A	05/09	Completed
El Salvador	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
French Antilles (France) (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		Valid	No	Completed
Grenada	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Haiti (OVM)	N/A	N/A	N/A	N/A	N/A	N/A	Station FS	Valid	N/A	N/A	No	Completed
Honduras (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Station DP	Valid	Valid	Valid	12/08& 05/09	Completed
Jamaica	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	Valid	N/A	No	Completed
Mexico (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Completed	Completed	Valid	12/08& 05/09	Completed
Montserrat I. (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		Valid	N/A	Completed
Netherlands Antilles (Netherlands) (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	N/A	N/A	12/08& 05/09	Completed
Nicaragua	N/A	N/A	N/A	N/A	Valid	Completed	Station FS	N/A		Valid	N/A	Completed
Puerto Rico (United States)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Saint Kitts and Nevis	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Saint Lucia	N/A	N/A	N/A	N/A	Valid	Completed	Valid	N/A		N/A	N/A	Completed
Saint Vincent and the Grenadines	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Trinidad and Tobago (OVM)	N/A	N/A	N/A	N/A	Valid	Completed	Valid	Valid	Valid	Valid	12/08& 05/09	Completed
Turks and Caicos Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Virgin Islands (United Kingdom)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed
Virgin Islands (United States)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	Completed

STATE	15/5	15/6	15/7	15/8			15/9	15/10		15/11	15/13	15/15
				a	b	c		a	b			
SAM REGION												
Argentina	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid	12/08 & 05/09	Completed
Bolivia	N/A	N/A	N/A	N/A	Completed	Valid	Completed	N/A		N/A	12/08 & 05/09	Completed
Brazil	N/A	N/A	N/A	N/A	Completed	Valid	Valid	N/A		N/A	Valid	Completed
Chile	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid ¹	12/08 & 05/09	Valid
Colombia	N/A	N/A	N/A	N/A							12/08 & 05/09	Valid
Ecuador	N/A	N/A	N/A	N/A	Completed	Valid	Completed	Completed	Valid	Valid	12/08 & 05/09	Completed
French Guiana (France)	N/A	N/A	N/A	N/A							No	Completed
Guyana	N/A	N/A	N/A	N/A				NA			No	Completed
Panama	N/A	N/A	N/A	N/A							No	Completed
Paraguay	N/A	N/A	N/A	N/A	Completed	Valid	Completed	NA		N/A	12/08 & 05/09	Completed
Peru	N/A	N/A	N/A	N/A	Completed	Valid	Valid	Completed	Valid	Valid	12/08 & 05/09	Completed
Suriname	N/A	N/A	N/A	N/A				N/A		N/A	No	Completed
Uruguay	N/A	N/A	N/A	N/A				N/A		N/A	No	Completed
Venezuela	N/A	N/A	N/A	N/A	Completed	Valid	Completed	N/A		N/A	12/08 & 05/09	Completed

¹ VONA form was included in MET flight files.

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>Training of Aeronautical Meteorological personnel 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>	Valid
Conc. 12/67	<p>Quality assurance systems for Meteorological services in the CAR/SAM Regions 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>	Valid
Conc. 13/16	<p>Cost recovery of MET services in the CAR/SAM Regions That the States/Territories/International Organizations, in coordination with the aeronautical meteorological authorities:</p> <ul style="list-style-type: none"> 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 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. 	Valid
Dec. 13/23	<p>Development of a Guide for the drafting of emergency plans for aerodromes that might be affected by volcanic ash in the CAR/SAM Regions 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>	Valid
Dec. 13/28	<p>Guide for the exchange of OPMET information in the CAR/SAM Regions That the AERMETSG Subgroup, in coordination with the Secretariat, develop a Guide for the exchange of OPMET information in the CAR/SAM Regions.</p>	Valid