International Civil Aviation Organization
CAR/SAM Regional Planning and Implementation Group (GREPECAS)
Eighth Meeting of the GREPECAS Aeronautical Meteorology Subgroup (AERMETSG/8)
Santiago, Chile, 9 to 13 October 2006

Agenda Item 1: Review of actions taken on MET Meetings Reports

(Presented by the Secretariat)

SUMMARY

This working paper reviews the actions taken by GREPECAS, the States/Territories/International Organizations and ICAO on the Conclusions formulated by the Seventh Meeting of the AERMET Subgroup, GREPECAS Conclusions/Decisions formulated in previous meetings and RAN CAR/SAM/3 Meeting Conclusions and Recommendations pending of implementation.

References:

- AERMETSG/7 Meeting Report
- GREPECAS/13 Meeting Report
- GREPECAS Procedural Handbook
- RAN CAR/SAM/3 Meeting Report

1. Introduction

1.1 The AERMET Subgroup, during its Seventh Meeting and in accordance with GREPECAS Procedural Handbook, adopted fourteen (14) "Draft Conclusions" and five (5) "Draft Decisions", 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 Review of the actions taken related to AERMETSG/7 Meeting Report

2.1.1 **Appendix A** to this working paper presents the Draft Conclusions formulated by the AERMETSG/7 Meeting, corresponding conclusions adopted by GREPECAS/13, 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 **Review of GREPECAS Conclusions/Decisions in the MET field pending of implementation**

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

2.3 **Review of the actions taken related to the RAN CAR/SAM/3 Meeting**

2.3.1 The Meeting shall recall that the AERMETSG working programme includes the follow up on the implementation of recommendations and conclusions of the RAN CAR/SAM/3 Meeting. In this regard, the Meeting could review the contents of **Appendix C** to this working paper and provide the Secretariat updated information on the status of implementation of conclusions and recommendations under consideration.

2.3.2 Likewise, the Group shall recall that GREPECAS agreed to update the AERMETSG working programme in order to include a study to determine the need for VOLMET service in CAR/SAM Regions. In this sense, a survey was sent to CAR/SAM States/Territories, IATA and IFALPA, and the results are included in **Appendix D** to this working paper.

3. **Action proposed**

3.1 The Meeting is invited to review the information provided in Appendices A, B and C to this working paper and to propose, if necessary, measures to foster the implementation or deletion of conclusions/decisions/recommendations.

3.2 In addition, it is expected that the Subgroup reviews Appendix D to this working paper and formulate a draft conclusion for GREPECAS/14 consideration.

- - - - -

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/13**			
Proyecto Conc.7/2	Conc. 13/16	**Cost Recovery of the Aeronautical MET Services of the CAR/SAM Regions** That the States/Territories, in coordination with the Aeronautical Meteorological Authorities: a) establish a national method for cost recovery for aeronautical meteorological services provided in their territory, through charges for air navigation services; and b) include the cost related to the reception and provision of WAFS, especially the charges for replacement or improvement of workstations and of the WAFS software required for the reception of these products in GRIB and BUFR codes, and with the maintenance of the ISCS1 (VSAT) workstation.	Call upon States to implement a methodology for cost recovery through the application of charges for air navigation services.	Valid
Proyecto Conc. 7/3	Conc. 13/17	**Survey on the ISCS Efficacy** That ICAO: a) request the States/Territories of the CAR/SAM Regions to develop a list of the ISCS focal points; and b) develop and send a survey formulary to the focal points on the efficacy of the ISCS, in coordination with the WAFS Provider State.	N/A	Valid

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/13**			
Proyecto Conc. 7/4	Conc. 13/18[1]	**Implementation Plan of the WAFS in CAR/SAM Regions** That the implementation plan for the WAFS in the CAR/SAM Regions be updated as indicated in Appendix B to this part of the Report.	N/A	Completed
Proyecto Conc. 7/5	Conc. 13/19	**Provision of results of GFS Model Runs by WAFC Washington** That, the WAFSOPSG consider the possibility that WAFC Washington disseminate the analysis for the Global Forecast System (GFS) model run to user States concerned.	N/A	Valid The WAFSOPSG/3 was carried out in Paris, France, from 26 to 29 September 2006. The meeting will be informed on the results.
Proyecto Conc. 7/6	Conc. 13/20[2]	**Periodic SIGMET tests on Volcanic Ash, Volcanic Ash Advisory and Volcanic Ash ASHTAM or NOTAM** That, ICAO invite the Washington and Buenos Aires VAACs, NOF and MWOs of the CAR/SAM Regions to take active part in periodic SIGMET tests, volcanic ash advisory and ASHTAM or NOTAM related to volcanic ash to be carried out according to the procedures agreed by the AERMET Subgroup.	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).	Valid In the month of August, letters were sent to VAAC Buenos Aires and VAAC Washington with a draft protocol for their approval or comments, inviting to carry out the test.
Proyecto Conc. 7/7	Conc. 13/21	**Designation of Volcano Observatories of selected States in the CAR/SAM Regions** That a new Table MET 3C is included in Part VI - MET of the CAR/SAM FASID to list the volcano observatories of selected States in the CAR/SAM Regions, which is presented in the **Appendix B** to this part of the Report.	N/A	Completed

[1] AERMETSG/7 Conclusión 7/4, pre-aprobada por los miembros del GREPECAS el 22 de agosto de 2005.
[2] AERMETSG/7 Conclusión 7/6, pre-aprobada por los miembros del GREPECAS el 22 de agosto de 2005.

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/13**			
Proyecto Conc. 7/8	Conc. 13/22	**Operational requirements for Volcano Observatories** That the IAVWOPSG considers: a) the development, in coordination with the IUGG, of a standard message format that volcano observatories should provide to ACC, MWO and VAACs related to volcanic eruptions; b) based on a) above, to invite the IUGG to consider the adoption of a standard format; and c) that volcano observatories agree to adopt the color code chart in accordance with Annex 15 for the purpose of supporting the issuance of ASHTAM and NOTAMs as messages to advise a volcano situation according to Annex 3.	N/A	Completed
Proyecto Conc. 7/9	Conc. 13/23	**Development of a Guide for the Development of Aerodromes Emergency Plans 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 development of aerodromes emergency plans that may be affected by volcanic ash in the CAR/SAM Regions.	N/A	Valid

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/13**			
Proyecto Conc. 7/10	Conc. 13/24	**Development of a system for the early detection of volcanic activity through remote sensors** That, the IAVWOPSG Member representing VAAC Buenos Aires include information on the development of a system for the early detection of volcanic activity through remote sensors in the management report to be presented to the IAVWOPSG/2 Meeting.	N/A	Valid
Proyecto Conc. 7/12	Conc. 13/25	**FORMATS FOR THE OPMET INFORMATION EXCHANGE** That, a) the Secretariat update the formats used by the CAR/SAM States for the coordinated control of OPMET data, taking into account the amendments to FASID Table MET 2A and the OPMET requirements of all the States/Territories of the different ICAO Regions, in accordance with the aforementioned table; and b) as of the coordinated OPMET control to be carried out from 10 to 16 June 2006, the States use, in addition to the current formats, the format included in Appendix C to this part of the Report.	N/A	Completed
Proyecto Conc. 7/13	Conc. 13/26	**Requirement for OPMET Data Exchange** That the CAR/SAM FASID Table MET 2A be amended to include, in italics, the aerodromes not included in FASID Table AOP1 of the States that accepted to send OPMET information to the ISCS and to the SADIS.	N/A	Completed

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/13**			
Proyecto Conc. 7/14	Conc. 13/27[3]	**Working hours of aerodromes that need to exchange OPMET Data** That, a) to update the information regarding the operation working hours of aerodromes that need to exchange OPMET data in the international sphere, included in Appendix D to this part of the report, and b) based on a), aerodromes working hours be included in the formats used for OPMET exchange.	N/A	Completed
Proyecto Conc. 7/15	Conc. 13/28	**Guide for OPMET information exchange in the CAR/SAM States** That the AERMET Subgroup, in coordination with the Secretariat, develops a Guide for OPMET information exchange in the CAR/SAM Regions.	N/A	Valid
Proyecto Conc. 7/16	Conc. 13/29	**Plan for the migration of the aeronautical meteorological messages to BUFR Code in the CAR/SAM Regions** That the AERMET Subgroup, in coordination with the CNS Committee of the GREPECAS ATM/CNS/SG, develops a detailed plan for the migration of aeronautical meteorological codes to BUFR codes.	N/A	Valid
Proyecto Conc. 7/17	Conc. 13/30	**Training on BUFR code** That, in order to facilitate the migration from Traditional Alphanumerical Codes (TAC) to BUFR code, WMO in collaboration with ICAO, organize a seminar on BUFR code and	ANB/MET to invite the WMO to organize a seminar, in coordination with ICAO, on the operational use of GRIB- and BUFR-coded WAFS products for the States of the CAR/SAM Region.	Valid The WMO was invited on 27 July 2006.

[3] AERMETSG/7 Conclusión 7/14, pre-aprobada por los miembros del GREPECAS el 22 de agosto de 2005.

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/13**			
		on its transmission, in order to introduce communications requirements and processing needed for their implementation in the CAR/SAM Regions.	Regional Office, Lima to follow-up with WMO concerning administrative arrangements for the seminar.	
Proyecto Conc. 7/18	Conc. 13/31	**PROPOSAL FOR AMENDMENT TO CAR/SAM ANP FASID, PART VI - MET** That, a) the text of Part VI – MET of the CAR/SAM Air Navigation Plan, Volume I, Basic, presented in **Appendix A** to this part of the Report, replace the current text of the CAR/SAM ANP, Volume I, Basic (Doc 8733); and b) the CAR/SAM FASID Document on facilities and services, be amended as shown in **Appendix B** to this part of the Report.	N/A	Completed
Proyecto Dec. 7/19	Dec. 13/97	**NEW TERMS OF REFERENCE AND WORK PROGRAMME OF THE AERMET SUBGROUP** That the terms of reference and the work programme of the AERMET Subgroup be updated as it is indicated in **Appendix A** to this part of the Report	N/A	Completed

- - - - - - -

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. 10/35	**Maintenance of WAFS equipment and systems** That, a) the WAFS provider State release information on those firms which were contracted to supply and maintain WAFS equipment and systems; and b) no later than January 2002, States contract the necessary service agreements in order to keep their one- and two-way WAFS equipment and systems (VSAT and STAR4) fully operational.	**a) Completed** **b) Valid** RMKS: Dates should be reviewed and updated.
Dec. 10/38	**MET requirements for CNS/ATM systems** That, the ATM/CNS Subgroup inform the AERMET Subgroup on the MET requirements for the development of the CNS/ATM activities in the CAR/SAM Regions, including a timetable setting priorities and implementation dates.	**Superseded** This requirement is contained in the tasks of the CNS/ATM/OP Task Force.
Conc. 10/39	**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.	**Valid**
Dec. 10/40	**Use of MET information and products by ATM personnel** That, the ATM/CNS Subgroup take the necessary measures to promote improved understanding and use of MET information and products by ATM personnel.	**Valid** RMKS: This matter will be discussed under Agenda Item 8.

Reference Report Conc./Dec.	Conclusions/Decisions	Subsequent Action by ICAO and/or by States/Territories International Organizations
Conc. 11/60	**Second CAR/SAM Regional Workshop on Aeronautical Meteorology services costs recovery** That ICAO, in close coordination with the WMO, organize and hold, as soon as possible, the Second Regional Workshop on aeronautical meteorology services costs recovery.	**Valid** This seminar is foreseen to be held in December 2006.
Conc. 12/54	**Active participation of Peru and Brazil in the WAFSOPSG** 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.	**Valid** WAFSPOPSG/1 (Lima, Peru, 10 – 13 November 2003): With the participation of Members from Brazil and Peru. WAFSPOPSG/2 (Bangkok, Thailand, 8 – 11 March 2005): With the participation of the Member from Brazil. WAFSPOPSG/3 (Paris, France, 27 – 29 September 2005).
Conc. 12/56	**Updating of the International Airways Volcano Watch contact list in CAR/SAM States/Territories/International Organizations** 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.	**Valid** There are still problems for the States to inform ICAO Regional Offices of the changes in contact information.
Conc. 12/57	**Implementation of SIGMET requirements** That the Lima and Mexico Regional Offices: 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 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.	**Valid** RMKS: This matter will be discussed under Agenda Item 2.

Reference Report Conc./Dec.	Conclusions/Decisions	Subsequent Action by ICAO and/or by States/Territories International Organizations
Conc. 12/58	**Active participation of Argentina as member of the IAVWOPSG** 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.	**Valid** IAVWOPSG/1 (Bangkok, Thailand, 15 – 19 March 2004): With the participation of the Member from Argentina. IAVWOPSG/2 (Lima, Peru, 26 – 30 September 2004): With the participation of th Member from Argentina. **RMKS**: It is considered valid, in order to have a record of assistance.
Conc. 12/59	**Harmonising ICAO colour code indicating level of alert of Volcanic activity and the codes used by vulcanological organizations and IFALPA** That the IAVWOPSG study the possibility of harmonising ICAO colour code indicating level of alert of volcanic activity with the codes used by vulcanological organizations and IFALPA, based on the draft shown in Appendix AA to this part of the Report.	**Completed** Following IAVWOPSG/1 Conclusion 1/10, the ad-hoc working group in charge of analyzing the application and use of colour codes, presented its report at the IAVWOPSG/2 (Lima, Peru, 2006). After the discussions, the Group formulated Conclusion 2/15 – Amendment to Annex 15, related with ICAO colour codes to indicate the level of alert of volcanic activity, to be included in Amendment 34 to the referred Annex.
Conc. 12/61	**Modules for distance learning in support of the IAVW** That the VAACs Buenos Aires and Washington carry out necessary coordination for developing training modules for ATS; AIS and MET personnel as regards ICAO IAVW procedures.	**Completed**
Conc. 12/64	**OPMET exchange controls for the CAR/SAM Regions** That, until an optimum percentage of OPMET data reception is achieved in the CAR/SAM Regions, OPMET exchange controls be applied from 10 to 16 June annually, including OPMET requirements of States/Territories/International Organizations from all ICAO Regions, in accordance with FASID Tables MET 2A and MET 2B, and using the forms approved by GREPECAS/9.	**Completed**

Reference Report Conc./Dec.	Conclusions/Decisions	Subsequent Action by ICAO and/or by States/Territories International Organizations
Conc. 12/65	**Meteorological services required in aerodromes - FASID TABLE MET 1A** That, in order to meet the requirements for international flight operations in the CAR/SAM Regions, the CAR/SAM ANP, Basic and the FASID Table MET 1A be amended as shown in **Appendix AD** to this part of the Report.	**Completed** The proposal for amendment to CAR/SAM ANP Basic was circulated to the States, Territories and international organizations and sent to ICAO HQs for approval by the Council. The amendment to FASID was included in the last amendment approved the 4th May 2006.
Conc. 12/66	**Training on quality management of MET services in the CAR/SAM Regions** 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.	**Valid** The seminar is foreseen to be held in December 2006.
Conc. 12/67	**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.	**Valid**
Conc. 12/68	**Priority of MET training in the CAR/SAM Regions** That WMO, in coordination with ICAO, be invited to give maximum priority to the training aspects in the specific field of aeronautical meteorology, according to the *Working Arrangements between ICAO and WMO (Doc 7475)* that exist between these two organizations.	**Completed**
Conc. 12/69	**Training programme in the CAR/SAM Regions for MET and ATM personnel with regard to amendment 73 to Annex 3** That States/Territories/International Organizations establish training programmes for MET and ATM personnel concerning Amendment 73 to Annex 3, effective 25 November 2004, and amendment to Doc 4444.	**Completed**

- - - - - -

APPENDIX C

STATUS OF IMPLEMENTATION OF CONCLUSIONS AND RECOMMENDATIONS OF THE RAN CAR/SAM/3 MEETING, RELATED WITH MET FIELD

Conclusion/Recommendation	Follow-up action	Status	Remarks
Conclusion 7/11 -List of CAR/SAM ATS/MET reporting points That, a) the ICAO regional offices concerned forward to States and international organizations in the CAR/SAM Regions the third edition of the list of ATS/MET reporting points which is given in Appendix C to the report on Agenda Item 7, amended to take account, as necessary, of changes to the ATS routes developed by the meeting; b) the ICAO regional offices concerned update the list annually based upon comments received from States and operators; and c) States publish, under GEN 3.5.6 - Aircraft reports of their aeronautical information publication (AIP), those ATS/MET reporting points from the list relevant to the flight information regions for which they are responsible. *(The ANC approved the Recommendation)*	States and Regional Offices	Follow-up to item c) of this Conclusion is part of the agenda of the regular mission programme to States carried out by the ROs/MET of the Regional Offices.	The fifth edition of the list was distributed to States in January 2002 So far, 7 amendments to the referred list have been distributed, the last one on 01/08/06.
Recommendation 7/12 - Improvement in the application of air-reporting procedures by voice communications That States undertake a review of the existing local arrangements concerning procedures for air reporting by voice communications, made between the operational units and airline operators, to ensure that: a) pilots are advised at their MET and/or AIS briefing prior to departure, of the ATS/MET reporting points along the whole route to be flown up to the next landing; b) operational staff are made fully aware of the importance of both routine and special air-reports and of their immediate transmission to the associated MWO; and	States	Follow-up to this conclusion is part of the agenda of the regular mission programme to States carried out by the Regional Offices ROs/MET.	Letter circulated to CAR/SAM States.

Conclusion/Recommendation	Follow-up action	Status	Remarks
c) MWOs disseminate air-reports received to WAFCs (and appropriate RAFCs), and other meteorological offices in accordance with regional meteorological procedures, paragraph 4.2. *(The ANC noted the Recommendation)*			
Recommendation 13/7 - Implementation of meteorological facilities and services That, States implement: a) aeronautical meteorological offices or specific facilities and services thereof given in FASID Tables MET 1A, 1B, 3 Part I and 3 Part II, as well as exchanges of OPMET data to cater for current flight operations given in FASID Tables MET 2 and 2A and the regional meteorological procedures related to the provision of facilities and services and the exchange of OPMET information as soon as possible following Council approval of the relevant recommendations of the meeting; and b) those offices or specific facilities and services, and OPMET exchanges related to future operations coincidently with the start of these operations. *(The ANC approved the Recommendation)*	States	Follow-up to this conclusion is part of the agenda of the regular mission programme to States carried out by ROs/MET of the Regional Offices.	Letter circulated to CAR/SAM States.
Recommendation 13/8 – Improvements in the implementation of CAR/SAM aeronautical MET offices That: a) States: 1) give the same priority to the implementation of aeronautical MET services as is given to other essential air navigation services; 2) ensure that urgent attention be paid to the quality and timeliness of aerodrome meteorological observations and, in particular, to the accuracy of information critical to flight safety, such as surface wind and pressure provided for landing and take-off; 3) in this implementation process, make full use of services available through technical cooperation programmes and projects to carry out the required training of aeronautical meteorological personnel including, *inter alia*,	States	Follow-up to this conclusion is part of the agenda of the regular mission programme to States carried out by ROs/MET of the Regional Offices.	Letter circulated to CAR/SAM States.

Conclusion/Recommendation	Follow-up action	Status	Remarks
forecasters, assistants and maintenance technicians, at all levels and the acquisition of the equipment needed to provide the required aeronautical meteorological information, in accordance with the regional air navigation plan; and b) ICAO Regional Offices concerned continue to monitor, as appropriate, the implementation of CAR/SAM aeronautical MET offices and especially equipment and services critical to flight safety, maintain a list of shortcomings and deficiencies occurring in the MET field in sufficient detail to permit identification of the specific problem, present status reports to the GREPECAS, and exchange the relevant information with the WMO Regional Office for the Americas. Note:- A list of services and equipment at aeronautical MET offices which are regarded as particularly critical for flight safety is provided in Appendix C to the report on this agenda item. *(The Council approved the Recommendation)*			
Recommendation 13/12 - Implementation of existing air-reporting procedures That States should continue to emphasize the implementation of existing air-reporting procedures while coordinating the smooth implementation of automated air reporting by data link. *(The ANC noted the Recommendation)*	States	Follow-up to this conclusion is part of the agenda of the regular mission programme to States carried out by the ROs/MET of Regional Offices.	Letter circulated to CAR/SAM States.
Recommendation 13/14 - Guide on the preparation and issuance of SIGMET messages That, a) the ICAO Regional Offices prepare and forward to all CAR/SAM States revised editions of the SIGMET guides, to take account, as necessary, of Amendment 72 to Annex 3; and	States and Regional Offices	a) Completed	The Seventh edition of the Guide was prepared and sent to CAR/SAM States. Actually, the Seventh edition is under preparation, which includes Amendment 73 to Annex 3.

Conclusion/Recommendation	Follow-up action	Status	Remarks
b) CAR/SAM States, upon receipt of the guide, take steps to ensure that forecasters at their meteorological watch offices make full use of the SIGMET guide in the preparation and dissemination of SIGMETs. *(The ANC approved the Recommendation)*		b) Follow-up to this conclusion is part of agenda of the regular mission programme to States carried out by ROs/MET of the Regional Offices.	
Recommendation 13/16 – Meteorological training activities That, WMO be invited to continue to organize, in consultation with ICAO, training activities for aeronautical meteorological personnel from CAR/SAM States, covering, *inter alia*, a) the interpretation and routine application of weather radar data and weather satellite images for the detection of mesoscale weather phenomena such as squall lines and their development and movement; and b) computer work station data processing techniques, including objective forecasting methods.	ICAO	On going	State letter SR166/4 dated 26 March 2000 sent to WMO's S.G. In addition, within the joint Project with WMO referred to by GREPECAS Conclusion 10/39, it is foreseen the inclusion of this training.
Recommendation 13/17 - Training for new meteorological codes That, States be encouraged to ensure that all staff concerned continue to receive training in the new coding procedures for the METAR, SPECI and TAF codes based on Amendments 69, 70 and 71 to Annex 3, with applicability dates 1 July 1993, 1 January 1996 and 5 November 1998, respectively. *(The ANC approved the Recommendation)*	States	Completed	

Conclusion/Recommendation	Follow-up action	Status	Remarks
Conclusion 13/23 -Evolutions in MET, AIS, Aerodromes and Search and Rescue in the CNS/ATM Systems That GREPECAS, based on the further advances in these disciplines, study the evolution in the CNS/ATM systems related to MET, AIS, aerodromes and SAR, in order for them to be included in the evolution tables when the further development of the Global Air Navigation Plan for CNS/ATM Systems takes place.	AERMETSG, ATM/CNS/SG ATM Committee and GREPECAS	On going	The Sixth Meeting of the AERMET Subgroup, under Decision 6/26, established the MET/ATM/OP Task Force on MET in the CNS/ATM concept. On the other hand, during the Third Meeting of the CNS/MET Subgroup, the ATM Committee designated Costa Rica as its representative in the MET/ATM/OP Task Force.

- - - - - -

APPENDIX D

RESULTS OF THE SURVEY ON VOLMET SERVICES REQUIREMENT IN CAR/SAM STATES/TERRITORIES

STATE	REPLY	COMMENTS
Argentina	Not required.	
Bolivia	Yes, it is required.	Regular Broadcasts
Brasil	Yes, it is required.	Regular Broadcasts in VHF with individual attention.
Chile	Yes, it is required.	Continued Broadcasts.
Colombia	Yes, it is required.	Continued Broadcasts.
Ecuador	Not required.	
Guyana	Not required.	
Paraguay	Yes, it is required.	Regular Broadcasts
Uruguay	Not required.	
Venezuela	Not required.	

CAR

STATE	REPLY	COMMENTS
Canada	Not required.	
United Kingdom	Yes, it is required.	Continued Broadcasts

- END -