



**AERMETSG/11
FINAL REPORT**

INTERNATIONAL CIVIL AVIATION ORGANIZATION

**CAR/SAM REGIONAL PLANNING AND
IMPLEMENTATION GROUP (GREPECAS)**

**REPORT OF THE
ELEVENTH MEETING OF THE AERONAUTICAL
METEOROLOGY SUBGROUP
(AERMETSG/11)**

LIMA, PERU, 28 TO 30 NOVEMBER 2011

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HISTORICAL

ii.1 **Place and Date of the Meeting**

The Eleventh Meeting of the GREPECAS Aeronautical Meteorology Subgroup (AERMETSG/11) was held at the ICAO South American Regional Office, in the city of Lima, Peru, from 28 to 30 November 2011.

ii.2 **Opening Ceremony**

Mrs. Nohora Arias Fandiño, Aeronautical Meteorology Regional Officer of the ICAO South American Regional Office, welcomed the participants on behalf of the Organization and thanked the attendance of MET experts provided by CAR/SAM States/Territories and international organizations emphasizing the importance of the issues to be discussed and opened the Meeting.

ii.3 **Organization of the Meeting**

The Meeting was chaired by Mr. Carlos Roberto Salinas (Paraguay), President of the AERMET Subgroup.

The Secretariat was in charge of Mrs. Nohora Arias, AERMET Subgroup Secretary and Aeronautical Meteorology Regional Officer of the ICAO SAM Office, assisted by Mr. Guillermo Vega, Aeronautical Meteorology Regional Officer of the ICAO NACC Office, Mexico.

ii.4 **Working Languages**

The working languages of the Meeting were Spanish and English. The Working Papers and Summary of Discussions of the Meeting were available to participants in both languages.

ii.5 **Agenda**

The Meeting adopted the following agenda:

Agenda Item 1: Review follow-up actions in respect to the reports of the AERMETSG/10 and GREPECAS/16 meetings and to GREPECAS Conclusions in the MET field pending of implementation.

Agenda Item 2: Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions.

- Agenda Item 3:** Review the status of implementation of the International Airways Volcano Watch (IAVW) in the CAR/SAM States.
- Agenda Item 4:** Exchange of OPMET information.
- Agenda Item 5:** Implementation of MET Quality System in the CAR/SAM Regions.
- Agenda Item 6:** Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects.
- Agenda Item 7:** Any other business.

ii.6 **Schedule and working method**

The Meeting agreed to hold its daily sessions from 08:30 to 17:00 hours, with adequate breaks.

ii.7 **Attendance**

The meeting was attended by three States of the CAR Region, ten States of the SAM Region, as well as IFALPA, totaling 34 participants. A list of participants is shown in pages iii-1 to iii-8.

ii.8 **Conclusions and Decisions**

The AERMETSG records its activities in the form of Draft Conclusions, Draft Decisions and Decisions as follows:

Draft Conclusions: Conclusions that require approval by GREPECAS prior to their implementation.

Draft Decisions: Decisions that require approval and adoption by GREPECAS prior to their implementation

Decisions: Decisions that deal with matters of concern to the Contributory Body.

ii.9 **List of Draft Conclusions and Decisions**

NUMBER	TITLE	PAG.
11/1	CURRENCY OF WIFS USER GUIDE AND ADMINISTRATIVE MESSAGES	2-2
11/2	DOC. 9766 – <i>HANDBOOK ON THE INTERNATIONAL AIRWAYS VOLCANO WATCH (IAVW) – OPERATIONAL PROCEDURES AND CONTACT LIST, IN SPANISH</i>	3-1
11/3	CAR/SAM QMS/MET GUIDE	5-1
11/4	QUALIFICATIONS AND TRAINING REQUIREMENTS OF METEOROLOGICAL PERSONNEL PROVIDING SERVICE TO INTERNATIONAL AIR NAVIGATION	5-2
11/5	COLLABORATIVE DECISION PROCESS IN SUPPORT OF THE WORLD AREA FORECAST SYSTEM (WAFS)	6-1
11/6	TRANSFORMATION OF THE AERMET SUBGROUP INTO A MET PROGRAMME FOR THE CAR AND SAM REGIONS	6-2

ii.10 **List of Working, Information and Discussion Papers**

WORKING PAPERS

Number	Agenda Item	Title	Date	Presented by
WP/00	---	Tentative Calendar and working method		Secretariat
WP/01	--	Tentative Agenda and Explanatory Notes	26/09/11	Secretariat
WP/02	1	Review the follow-up actions in respect to the reports of the AERMETSG/10 and GREPECAS/16 meetings and to GREPECAS Conclusions in the MET field pending of implementation	10/10/11	Secretariat
WP/03	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions	11/10/11	Secretariat
WP/04	3	Review the status of implementation of the International Airways Volcano Watch (IAVW) in the CAR/SAM States	11/10/11	Secretariat
WP/05	4	Exchange of OPMET information	04/11/11	Secretariat
WP/06	5	Implementation of MET Quality System in the CAR/SAM Regions	12/10/11	Secretariat
WP/07	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects	02/11/11	Secretariat
WP/08	3	Review the status of implementation of the International Airways Volcano Watch (IAVW) in the CAR/SAM States - METEOROLOGICAL WATCH OFFICE (MWO) BACK-UP FOR SIGMET INFORMATION	25/08/11	United States

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Number	Agenda Item	Title	Date	Presented by
WP/09	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - WIFS TRANSITION STATUS UPDATE	15/10/11	United States
WP/10	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - TIMES TO DOWNLOAD FILES FROM WIFS	15/10/10	United States
WP/11	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - ISCS TO WIFS REGISTRATION COORDINATION	15/10/11	United States
WP/12	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - CHANGES TO ACCESSING WIFS	15/10/11	United States
WP/13	5	Implementation of MET Quality System in the CAR/SAM Regions - QUALIFICATIONS AND TRAINING OF METEOROLOGICAL PERSONNEL PROVIDING SERVICE FOR INTERNATIONAL AIR NAVIGATION	02/11/11	Secretariat
WP/14	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects - COLLABORATIVE DECISION MAKING	15/10/11	United States
WP/15	4	Exchange of OPMET information - ANALYSIS OF THE RESULTS OF THE POLL CARRIED OUT AMONG THE CAR/SAM STATES	14/11/11	Rapporteur of the COM/MET Task Force
WP/16	4	Exchange of OPMET information	28/09/11	Brazil

INFORMATION PAPERS

Number	Agenda Item	Title	Date	Presented by
IP/01	--	General Information	22/08/11	Secretariat
IP/02	--	List of Working and Information Papers		Secretariat
IP/03	1	Review the follow-up actions in respect to the reports of the AERMETSG/10 and GREPECAS/16 meetings and to GREPECAS Conclusions in the MET field pending of implementation	10/10/11	Secretariat
IP/04	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - WAFS INTERNET FILE SERVICE (WIFS)	10/10/11	United States
IP/05	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects - RIGHTSIZING – INTRODUCTION TO THE FLEXIBLE TERMINAL SENSOR NETWORK	10/10/11	United States
IP/06	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - SUMMARY OF RECENT AND FORTHCOMING DEVELOPMENTS TO THE WAFS	10/10/11	United States

Number	Agenda Item	Title	Date	Presented by
IP/07	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects - SUPPORTING THE TRANSITION TOWARDS A DATA-CENTRIC AIR TRANSPORT SYSTEM	15/10/11	United States
IP/08	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects - NEXTGEN STATUS	15/10/11	United States
IP/09	7	Any other business - THE INTERNATIONAL FLIGHT FOLDER DOCUMENTATION PROGRAM (IFFDP)	04/11/11	United States
IP/10	6	Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects - GREPECAS/16 MEETING RESULTS	10/10/11	Secretariat
IP/11	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - WAFS INTERNET FILE SERVICE (WIFS) AND CURRENT DEVELOPMENTS	04/11/11	United States
IP/12	2	Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions - THE NATIONAL WEATHER SERVICE (NWS) GTS INTERNET FILE SERVICE	04/11/11	United States
IP/13	3	Review the status of implementation of the International Airways Volcano Watch (IAVW) in the CAR/SAM States - NON CONVENTIONAL VOLCANIC ASH DISPERSION SITUATION	10/11/11	Argentina
NI/14	5	Implementation of MET Quality System in the CAR/SAM Regions (<i>Spanish only</i>)	17/11/11	Peru

Lista de Participantes / List of Participants

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Agenda Item 1: Review follow-up actions in respect to the reports of the AERMETSG/10 and GREPECAS/16 meetings

Under this agenda item, the following working and information papers were presented:

- WP/02 (Secretariat)
- IP/03 (Secretariat)

1.1 The Meeting reviewed the actions taken by GREPECAS, States/Territories/International Organizations and ICAO, on the Conclusions formulated by the Tenth Meeting of the AERMET Subgroup.

1.2 Even though most of the conclusions have been completed, the Group considered that Conclusion 16/10 – Monitoring of SIGMET received in the Brasilia International OPMET Databank and Conclusion 16/13 – SIGMET Tests, can be considered completed, since they will be maintained until the deficiencies related with SIGMET transmission are corrected, and are included in the tasks to be developed by the Project for the implementation of international airways volcanic watch (IAVW), where the development of a guide for the preparation of emergency plans for aerodromes that could be affected by volcanic ash in the CAR/SAM Regions has also been included, in compliance with Conclusion 10/39, pending of implementation.

1.3 With regard to Conclusion 16/11 – Participation of States' members in the meetings of ICAO operations groups or study groups administered by ICAO Headquarters, Montreal, the Meeting agreed that States that could not implement this conclusion should inform ICAO Secretary General, in order to give other States the opportunity to represent the Region in these meetings.

1.4 Regarding Conclusion 16/19 – ATM/MET Seminar/Workshop, the Meeting took note that it is foreseen to be held in Mexico in October 2012.

1.5 Based on the above, the only GREPECAS Conclusions pending of implementation would be:

- Conclusion 16/16 – Installation of AMHS user terminals in meteorological units with international OPMET requirement;
- Conclusion 15/5 - Training for CAR/SAM States on the details and use of new WAFS icing, turbulence and convective cloud forecasts derived from GRIB 2 data; and
- Conclusion 10/39 – Training of Aeronautical Meteorological Personnel.

Agenda Item 2: Review the status of implementation of the World Area Forecast System (WAFS) in the CAR/SAM Regions

Under this agenda item, the following working and information papers were presented:

- WP/03 (Secretariat), WP/09, WP/10, WP/11 and WP/12 (United States)
- IP/04, IP/11, IP/12 (United States)

2.1 The Meeting was informed on the evolution of the World Area Forecast System (WAFS), in accordance with the results of the Sixth Meeting of the WAFS Operations Group (WAFSOPSG/6), and its implementation status in the States of the CAR/SAM Regions (**WP/03**).

Transition to WIFS

2.2 The Meeting took note that some users have several Points of Contact (POCs), thus, it was agreed that, in support of the authentication of the WIFS application process (**WP/11**), WIFS registration will consider only one list and a single Point of Contact that ICAO Lima and Mexico Regional Offices should keep up-to-date, in compliance with GREPECAS Conclusion 15/6. In this regard, **Appendices A and B** of this part of the report include the contact lists with WIFS operational focal points for the CAR and SAM Regions, respectively.

2.3 In addition, the Subgroup was informed of the status of ISCS-G2 users in the CAR/SAM Regions that have registered for a WAFS Internet File Service (WIFS) account, (**WP/09**). The Meeting took note that several WIFS accounts in the Region have been very active, others not and that some users of the International Satellite Communication Service-Generation 2 (ISCS-G2) have not registered yet. In this regard, the Meeting was aware of the urgent need for the States that have not registered yet, apply on line at the website <http://www.aviationweather.gov/wifs> as soon as possible (**WP/11**).

2.4 The Subgroup recalled that the ISCS/WIFS Provider State extended the service ISCS-G2 until 30 June 2012 and that there will be no additional extensions, therefore, beginning **1 July, 2012**, WIFS will be the only means available for the users to obtain WAFS forecasts from the Washington WAFS.

2.5 The Meeting deemed appropriate to include in the work programme of the Project for WAFS implementation, a strict follow up to States so that they have available the necessary dedicated bandwidth to access WIFS (minimum recommended Internet connection speed is 64 kbps, bursting to 512 kbps) (**WP/10**) and to activate their account to assist the ISCS/WIFS Provider State to assess if the account is operating properly and if the user is accessing the WAFS data. The project will also make a strict follow up to States to ensure the transition from the ISCS service to WIFS as soon as possible, and **not later than 31 March 2012**.

WIFS User Guide

2.6 The Subgroup took note with satisfaction and appreciation that, in compliance to GREPECAS Conclusion 10/03, the WIFS User Guide is available in Spanish and English at the WIFS website <http://www.aviationweather.gov/wifs>, under "Documents" (**WP/12**), as well as in ICAO NACC and SAM Offices websites, under e-documents. In this regard, the Meeting approved the following draft conclusion:

DRAFT
CONCLUSION 11/01 **CURRENCY OF WIFS USER GUIDE AND ADMINISTRATIVE**
MESSAGES

That,

- a) the ISCS/WIFS Provider State be thanked for publishing the WIFS User guide in Spanish and invited to keep ICAO informed on any update; and
- b) States periodically access the WIFS advisories page (www.aviationweather.gov/wifs/) for any interim updates to the WIFS User Guide for changes in the operations of WIFS.

**WIFS OPERATIONAL FOCAL POINTS/
PUNTOS FOCALES OPERACIONALES DEL WIFS¹**

Updated October 2011 /Actualizada Octubre 2011

Contactos en Estados Unidos para todo lo relacionado con la transición del ISCS-G2 al WIFS / Contacts in the United States for all related to ISCS-G2 to WIFS transition		
Transición del ISCS-G2 al WIFS		Acceso y autorización del WIFS
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¹ A single WIFS point of contact is required, who should be a meteorologist directly involved with the operational section of the World Area Forecast System (WAFS).

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AERMETSG/11
Appendix A to the Report on Agenda Item 2

2A - 3

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AERMETSG/11
Appendix A to the Report on Agenda Item 2

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Note 1: The AERMETSG considered necessary to include the contact information of the ICAO Lima MET Regional Officer in order to be included in the list of addressees that will receive the information on WIFS improvements.

Nota 1: El AERMETSG consideró necesario incluir la información de contacto de la Oficial Regional MET de las Oficinas de la OACI de Lima, con el fin de que sean incluidos en la lista de destinatarios que recibirá la información sobre las mejoras del WIFS.

Note 2: Esta lista será actualizada por la Secretaría de la OACI con base en la información suministrada por los Estados

Note 2: This list is kept up-to-date by the ICAO Secretariat based on the input from States.

**WIFS OPERATIONAL FOCAL POINTS/
PUNTOS FOCALES OPERACIONALES DEL WIFS¹**

Updated November 2011 /Actualizada Noviembre 2011

Contactos en Estados Unidos para todo lo relacionado con la transición del ISCS-G2 al WIFS / Contacts in the United States for all related to ISCS-G2 to WIFS transition		
Transición del ISCS-G2 al WIFS		Acceso y autorización del WIFS
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¹ A single WIFS point of contact is required, who should be a meteorologist directly involved with the operational section of the World Area Forecast System (WAFS).

AERMETSG/11
Appendix B to the Report on Agenda Item 2

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Nominated by/ Nominado por	Name/Nombre	Postal address/ Dirección Postal	Contact information/ Información de contacto
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AERMETSG/11
Appendix B to the Report on Agenda Item 2

2B - 3

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Note 1: The AERMETSG considered necessary to include the contact information of the ICAO Lima MET Regional Officer in order to be included in the list of addressees that will receive the information on WIFS improvements.

Nota 1: El AERMETSG consideró necesario incluir la información de contacto de la Oficial Regional MET de las Oficinas de la OACI de Lima, con el fin de que sean incluidos en la lista de destinatarios que recibirá la información sobre las mejoras del WIFS.

Nota 2: Esta lista será actualizada por la Secretaría de la OACI con base en la información suministrada por los Estados

Note 2: This list is kept up-to-date by the ICAO Secretariat based on the input from States.

27 Jan. 12

Agenda Item 3: Review the status of implementation of the International Airways Volcano Watch (IAVW) in the CAR/SAM States

Under this agenda item, the following working and information papers were presented:

- WP/04 (Secretariat) and WP/08 (United States)
- IP/08 (United States) and IP/13 (Argentina)

3.1 The meeting started the discussion of agenda item 3, taking note of the evolution of the International Airways Volcano Watch (IAVW), in accordance with the results of the Fifth and Sixth Meetings of the IAVW Operations Group (IAVWOPSG/5 and IAVWOPSG/6).

3.2 When dealing with the implementation status of IAVW in the CAR/SAM Regions, the Meeting took note of the regional guidance in Spanish prepared by the Secretariat to explain the contents of Doc 9766, *Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List*, in compliance with GREPECAS Conclusion 16/09.

3.3 In this regard, and aware of the latest events on volcanic ash in the SAM Region which have affected several States and FIRs, the Meeting considered necessary to have Doc 9766 available in Spanish, thus, formulated the following draft conclusion:

DRAFT

CONCLUSION 11/02

DOC. 9766 - HANDBOOK ON THE INTERNATIONAL AIRWAYS VOLCANO WATCH (IAVW) — OPERATIONAL PROCEDURES AND CONTACT LIST, IN SPANISH

That, in order to support CAR/SAM States in IAVW implementation, ICAO be invited to consider the development of a Spanish version of Doc 9766 - *Handbook on the International Airways Volcano Watch (IAVW), Operational Procedures and Contact List*.

3.4 The Subgroup recalled GREPECAS Conclusion 15/12, following Part VI – MET of the CAR/SAM ANP, Basic¹, and considered essential to develop procedures for the transference of responsibilities of MWOs.

3.5 In this regard, the Meeting agreed that based on the new GREPECAS methodology, a project for the implementation of international airways volcano watch (IAVW) will be required, and that this task could be developed by this project.

3.6 In addition the Meeting also recalled that the referred project could also review the contingency plans for volcanic eruptions in the CAR and SAM Regions, as well as other tasks required for the implementation of IAVW and the issuance of volcanic ash related SIGMET.

¹ “14. When a meteorological watch office (MWO) is temporarily not functioning or is not able to meet all its obligations, its responsibilities should be transferred to another MWO and a NOTAM should be issued to indicate such a transfer and the period during which the office is unable to fulfill all its obligations”.

Agenda Item 4: Exchange of OPMET information

Under this agenda item, the following working papers were presented:

- WP/05 (Secretariat), WP/15 (COM/MET TF Rapporteur) and WP/16 (Brazil)

4.1 The Meeting reviewed the results of the OPMET exchange control corresponding to the period from 10 to 16 June 2010 and 2011 of the States participating in the control, and of those from which information was received in the States of the CAR/SAM Regions in accordance with the procedures established by GREPECAS (**WP/05**).

4.2 In addition, the Subgroup made a preliminary analysis of the answers to the survey carried out with the States of the CAR/SAM Regions based on a questionnaire prepared by the AERMETSG COM/MET Task Force and the Secretary of the Subgroup, with the objective of identifying the deficiencies that obstruct the normal exchange of OPMET information (**WP/15**).

4.3 The Meeting considered that the exchange of OPMET information would be another project of the GREPECAS MET Programme, and agreed that a detailed analysis would be required to meet the objective conclusions that will enable the proposal of corrective actions, which will be one of the tasks of this project.

4.4 The comparison between the availability of the messages in the Brasilia International OPMET Data Bank was also under preliminary review and should be analyzed in detail by the above mentioned project (**WP/16**).

Agenda Item 5: Implementation of MET Quality System in the CAR/SAM Regions

Under this agenda item, the following working and information papers were presented:

- WP/06 (Secretariat) and WP/13 (Secretariat)
- IP/14 (Peru)

5.1 The Meeting started its discussions on this agenda item taking note of the status of QMS/MET implementation, as well of the draft Guide to support the implementation of the quality management system in the aeronautical meteorology services (QMS/MET) in the CAR/SAM Regions.

5.2 In compliance with GREPECAS Decision 9/22, the Meeting approved the draft QMS/MET Guide for the CAR/SAM Regions, and agreed that, as well as the other CAR/SAM MET Guides, should be kept up to date.

5.3 The Meeting considered that the implementation of the quality system of meteorological information for international air navigation (QMS/MET) would be another project of the GREPECAS MET Programme, and agreed that the updating of the CAR/SAM QMS/MET Guide should be a task of this project.

5.4 In this regard, the Meeting formulated the following draft conclusion:

**DRAFT
CONCLUSION 11/03 CAR/SAM QMS/MET GUIDE**

That, in order to support the implementation of the quality management system of meteorological information supplied to international air navigation users, the CAR/SAM States that so require use the QMS/MET Guide, as presented in **Appendix A**¹ to this part of the report.

5.5 In accordance with Annex 3, 2.1.5, each Contracting State shall ensure that the designated meteorological authority complies with the requirements of the World Meteorological Organization (WMO) in respect of qualifications and training of meteorological personnel providing service for international air navigation. In this regard, the Subgroup took note of new qualifications and training requirements of the WMO, as approved by the Sixteenth World Meteorological Congress in May 2011 (**WP/13**). According to the new WMO requirements MET service providers providing service to international air navigation must demonstrate that:

- a) by 1 December 2013, their aeronautical meteorological personnel comply with the competency standards prescribed in WMO Publication No. 49, Technical Regulations; and
- b) by 1 December 2016, their aeronautical meteorological forecasters satisfy qualifications requirements of the Basic Instruction Package – Meteorology (BIP-M).

¹ Appendix A corresponds to the Appendix of WP/06

5.6 In this regard, the Meeting formulated the following draft conclusion:

DRAFT

CONCLUSION 11/04

**QUALIFICATION AND TRAINING REQUIREMENTS OF
METEOROLOGICAL PERSONNEL PROVIDING SERVICE TO
INTERNATIONAL AIR NAVIGATION**

That, States in the CAR/SAM Region be invited, as a matter of urgency, to ensure that the designated meteorological authority complies, if not already done so, with the requirements of the World Meteorological Organization (WMO) in respect of qualification and training of meteorological personnel providing service for international air navigation.

Note 1.— The requirements concerning qualification and training of meteorological personnel in aeronautical meteorology are given in WMO Publication No. 49, Technical Regulations, Volume I — General Meteorological Standards and Recommended Practices, Chapter B.4 — Education and Training.

Note 2.— Enhanced WMO qualification and training requirements (including competency standards) become applicable in WMO Publication No. 49 as of 1 December 2013 and 1 December 2016.

Agenda Item 6: Transition from the AERMET Subgroup and its Task Forces to the MET Programme and its projects

Under this agenda item, the following working and information papers were presented:

- WP/07 (Secretariat) and WP/14 (United States)
- IP/10 (Secretariat) and IP/05, IP/07 and IP/08 (United States)

6.1 The Meeting recalled that the Air Navigation System Performance-based Implementation Plans had been developed by ICAO CAR and SAM Regions and in compliance with GREPECAS Conclusion 15/01, in order to establish a well defined strategy for the implementation of ATM systems and to align the work of the Subgroup within the projects scheme approved by GREPECAS (**WP/07**).

6.2 The Subgroup noted with satisfaction that the “Collaborative decision making” (CDM) has shown to be a successful process in determining operational impact of thunderstorm activity on Air Traffic Flow Management (ATFM). The purpose of this paper is to make the CAR/SAM Regions aware of the CDM process and provide examples of aviation meteorological forecasts that use the collaborative decision process (**WP/14**).

6.3 Although the CDM is a new concept, the Air Traffic Management Requirements and Performance Panel (ATMRPP) has recognized the value of CDM and is in the process of providing global guidance on the implementation and use of CDM by issuing a Manual on CDM.

6.4 The Meeting considered that the CDM should be thought as a two step process, since there is a collaborative forecasting process and then there is a decision making process by the principal users. The terms are interwoven in some context but the overall aim is in support of a CDM program that can be implemented to facilitate aviation meteorological forecasts in support of flight planning and Air Traffic Flow Management (ATFM) decisions.

6.5 Consequently, the Meeting formulated the following draft conclusion:

DRAFT

CONCLUSION 11/05

**COLLABORATIVE DECISION PROCESS IN SUPPORT OF THE
WORLD AREA FORECAST SYSTEM (WAFS)**

That, States in the CAR/SAM Regions, be invited to participate in the collaborative decision process of the WAFS Washington significant weather (SIGWX) forecasts.

6.6 The Meeting agreed that with the new organization and work methodology adopted by GREPECAS (**IP/10**), the tasks of the Subgroup could be carried out under the MET Programme and Projects to support the States of the CAR and SAM Regions in ensuring that meteorological service for international air navigation and operational procedures follow ICAO Standards and Recommended Practices (SARPS) and harmonize with national regulations. In this regard, the Meeting formulated the following draft decision:

**DRAFT
DECISION 11/06**

**TRANSFORMATION OF THE AERMET SUBGROUP INTO A
MET PROGRAMME FOR THE CAR AND SAM REGIONS**

That, the Terms of Reference and Work Programme of the GREPECAS Aeronautical Meteorology Subgroup (AERMETSG) be reflected in the work to be developed by the MET Programme under the coordination of the ICAO Lima and Mexico Aeronautical Meteorology Regional Officers, with the following projects for each Region:

- a) Project for WAFS implementation;
- b) Project for IAVW implementation;
- c) Project for QMS/MET implementation;
- d) Project for OPMET exchange optimization, including SIGMET (WS, WV and WC) and warnings.

Note: The description of the projects for CAR and SAM Regions is presented in Appendices A, B and C to this part of the Report.

REVIEW OF THE WORK PROGRAMME

CAR/SAM PROJECTS

PROGRAMME: **H:** **AERONAUTICAL METEOROLOGY (MET)**

PROJECT: **H1:** **WAFS Implementation**

PROJECT COORDINATOR: **Steven Albersheim (United States):** steven.albersheim@faa.gov

EXPERTS: **Dulce Roses (United States):** dulce.roses@faa.gov
Matt Strahan (United States): matt.strahan@noaa.gov

No.	Task	Start – End	Responsible	Status	Deliverable
1	2	3	4	5	6
1.0	Transition from ISCS to WIFS				
1.1	ISCS users that have yet to register, need to apply on line at http://www.aviationweather.gov/wifs as soon as possible	Nov 2011/Jan 2012	Dulce Roses / Matt Strahan	Valid	Report from Wash WAFC to ICAO on registration via FAA
1.2	States review the WIFS Registration Status, and provide a single Point of Contact to the WIFS provider states and the ICAO Regional Office in support of authentication of the WIFS application process	Nov 2011/Jan 2012	Dulce Roses	Valid	Report to ICAO on compliance
1.3	States who are listed in Table 2 need to activate their accounts to assist the WIFS Provider State in assessing whether the account is working properly	Nov 2011/Jan 2012	Dulce Roses	Valid	Report to ICAO on compliance
1.4	States be urged to evaluate and acquire the necessary dedicated bandwidth to access WIFS, based on the type of data to be downloaded	Nov 2011/Jan 2012	ISCS Users	Valid	E-mail report to Steve
1.5	ISCS Users need to make the transition from their operational ISCS service to WIFS at their earliest convenience, and by no later than 31st March 2012 given that the ISCS-G2 service will be terminated on 30 th June 2012	Nov 2011/Mar 2012	Dulce Roses / Steven Albersheim / Matt Strahan	Valid	Report to ICAO on compliance
1.6	States be urged to use the single common URL (www.aviationweather.gov/wifs/data), and transit to the common URL as soon as possible if still	Nov 2011/Dec 2012	Steven Albersheim	Valid	Report of States that have complied
1.7	In order to access WIFS users need to use the Wget software package	Nov 2011/Jan 2012	Dulce Roses	Valid	Report of States that have obtained software
1.8	Users who require assistance to modify their workstation to Access WIFS need to contact their vendors	Nov 2011/Feb 2012	Dulce Roses	Valid	Report on compliance

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No.	Task	Start – End	Responsible	Status	Deliverable
1	2	3	4	5	6
2.0	Support Services for WAFS Products				
2.1	Users are encouraged to participate in web-based training on the intended use of gridded WAFS forecasts for cumulonimbus clouds, icing and turbulence	TBD	Matt Strahan	Valid	
2.2	Users of WAFS products need to use only GRIB2 in that GRIB1 terminates with Amd 76	Nov 2011/Nov 2013	Matt Strahan	Valid	Report to ICAO on States ready for GRIB2
2.3	States are encouraged to register and participate in the SIGWX chat/CDM	Ongoing	Matt Strahan	Valid	Report to ICAO on States participating

REVIEW OF THE WORK PROGRAMME

CAR PROJECTS

PROGRAMME: **H:** **AERONAUTICAL METEOROLOGY (MET)**

PROJECT: **H2:** **IAVW Implementation**

PROJECT COORDINATOR: **Enrique Camarillo (Mexico): camarillo_enrique@yahoo.com.mx**

EXPERTS: **Sergio González (Mexico): egonz310@sct.gob.mx**
Werner Stolz (Costa Rica): wstolz@imn.ac.cr

No.	Task	Start – End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Review and update the volcanic ash contingency plan for the SAM Region	06 Dec 2011/22 Dec 2011	TBD	Valid	Doc. updated
2	Review the SIGMET Guide and present changes proposals	17 Jan 2012/15 Feb 2012	TBD	Valid	Doc. updated
3	Establish a List of SIGMET Points of Contact ¹ (POC)	15 Dec 2011/15 Feb 2012	TBD	Valid	POC List
4	Update the SIGMET Guide based on Amendment 76 to Annex 3	01 Dec 2012/01 Feb 2013	TBD	Valid	Doc. updated
5	Develop the procedures for the transfer of responsibilities of the back-up MWO	05 Apr 2012/05 Jun 2012	TBD	Valid	Procedure
6	Definition of dates for the Regional Meeting for the approval of the Contingency Plan with the ATM, AIM, AGA and MET areas.	18 Feb 2012/20 Feb 2012	TBD	Valid	Meeting proposed
7	Review and update the protocol for the SIGMET Exercise on volcanic ash. Prepare the protocol exercise.	01 Oct 2012/01 Oct 2014	TBD	Valid	Annually Protocol and appendices
8	Monitor the Annual SIGMET Exercise on volcanic ash	Dec 2011/Dec 2014	TBD	Valid	Annually Appendix E
9	Attend general problems of the States	01 Dec 2011/31 Dec 2014	TBD		Inform the Regional Office

¹ The Meeting emphasized that the POCs should be operational personnel.

REVIEW OF THE WORK PROGRAMME

CAR PROJECTS

PROGRAMME: **H:** **AERONAUTICAL METEOROLOGY (MET)**

PROJECT: **H3:** **QMS/MET Implementation**

PROJECT COORDINATOR: **Juan Ayón (Cuba):** juan.ayon@iacc.avianet.cu; dan@iacc.avianet.cu

EXPERTS: **Kareen Gourzong (Jamaica):** k.gourzong@metservic.gov.jm
Marlon Noel (Trinidad & Tabago): dirmet@tstt.net.tt
Representative from Cuba to be determined
Representative from Nicaragua to be determined

No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Update the CAR/SAM QMS Guide, with reference to: a) MET personnel competences; b) Amendment 76 to Annex 3	15 Dec 2011/30 Mar 2012	TBD	a) Valid b) Valid	Updated guide
2	Maintain the List of Points of Contact ² (POC) updated	15 Dec 2011/15 Dec 2013	TBD	Valid	Updated POC(s) list
3	Prepare survey to States on MET personnel	15 Dec 2011/30 Mar 2012	TBD	Valid	Identify deficiencies
4	Table of compliance with rules of Annex 3 and MET procedures	15 Dec 2011/30 Mar 2012	Focal points	Valid	Identify deficiencies
5	Tables of compliance to CAR/SAM ANP, Part VI, MET	15 Dec 2011/Mar 2012	Focal points	Valid	Identify deficiencies
6	QMS MET implementation plan in States AOP aerodromes	15 Dec 2011/30 Mar 2012	Focal points	Valid	Implementation plan
7	Project development course	March 2011	Coordinator	Valid	Course report
8	Report on problems for analysis and strategies of solution	15 Dec 2011/15 Dec 2013	Focal points	Valid	Continuous improvement
9	Supervision and continuous review of QMS/MET system at AOP aerodromes	15 Dec 2011/15 Dec 2013	Focal points	Valid	Continuous improvement

² The Meeting emphasized that the POCs should be operational personnel.

REVIEW OF THE WORK PROGRAMME

CAR PROJECTS

PROGRAMME: **H:** **METEOROLOGÍA AERONÁUTICA (MET)**

PROJECT: **H4:** **Optimization of OPMET exchange, including SIGMET (WS, WV and WC) and meteorological advisories and warnings**

PROJECT COORDINATOR: **Enrique Camarillo (Mexico): camarillo_enrique@yahoo.com.mx**

EXPERTS: **Sergio González (Mexico): egonz310@sct.gob.mx**
Representative from Costa Rica to be determined
Representative from Honduras to be determined

No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Send by e-mail the OPMET Guide and the OPMET Control Tables	01 Dec 2011/01 Dec2011	Coordinator	Valid	Tables for verification
2	Review the OPMET Guide for CAR/SAM Region and propose updates, if necessary, in respect of CAR Region	02 Jan 2012/08 Aug 2012	CAR States	Valid	Corrected tables
3	Review the OPMET Control Table (schedule contents and MET stations)	02 Jan 2012/08 Aug 2012	CAR States	Valid	Corrected tables
4	Consolidate the information received from States (OPMET Guide)	01 Mar 2012/01 Apr 2012	Experts from Costa Rica and Mexico	Valid	Corrected tables
5	Consolidate the information received from States (OPMET Table – schedule contents and MET stations)	01 Mar 2012/01 Apr 2012	Experts from Costa Rica and Mexico	Valid	Corrected tables
6	Develop OPMET control based on proposed updates	10 Jun 2012/06 Jun 2012	CAR States / Brasilia OPMET Bank	Valid	OPMET Control
7	Present the necessary amendments to the Guide and to the OPMET Control Table at the OPMET Meeting of the CAR Region	18 Jun 2012/01 Jun 2012	Coordinator/Rapporteur	Valid	OPMET Guide and Control table updated
8	Assess OPMET control results	17 Jun 2012/07 Aug 2012	CAR States	Valid	Not applicable
9	Submit the OPMET control results to ICAO/CAR and States	18 Aug 2012/01 Aug 2012	CAR States / Brasilia OPMET Bank	Valid	OPMET Control
10	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	25 Aug 2012/05 Nov 2012	CAR States	Valid	Not applicable
11	Propose actions to the project coordinator to improve OPMET exchange	16 Nov 2012/05 Dec 2012	CAR States	Valid	Proposed actions

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No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
12	Propose actions to ICAO/CAR to improve OPMET exchange if necessary	01 Feb 2013/08 Feb 2013	Coordinator/Rapporteur	Valid	Proposed actions
13	Develop OPMET control	10 Jun 2013/16 Jun 2013	CAR States / Brasilia OPMET Bank	Valid	OPMET Control
14	Assess OPMET control results	17 Jun 2013/07 Aug 2013	CAR States	Valid	Not applicable
15	Submit the OPMET control results to ICAO/ CAR and States	18 Aug 2013/01 Aug 2013	CAR States	Valid	OPMET Control
16	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	25 Aug 2013/05 Nov 2013	CAR States	Valid	Not applicable
17	Propose actions to the project coordinator to improve OPMET exchange	16 Nov 2013/05 Dec 2013	CAR States	Valid	Proposed actions
18	Propose actions to ICAO/CAR to improve OPMET exchange if necessary	01 Feb 2014/08 Feb 2014	Coordinator	Valid	Proposed actions
19	Develop OPMET control	10 Jun 2014/06 Jun 2014	CAR States / Brasilia OPMET Bank	Valid	OPMET Control
20	Assess OPMET control results	17 Jun 2014/07 Aug 2014	CAR States	Valid	Not applicable
21	Submit the OPMET control results to ICAO/CAR and States	18 Aug 2014/01 Aug 2014	CAR States	Valid	OPMET Control
22	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	21 Aug 2014/01 Oct 2014	CAR States	Valid	Not applicable
23	Submit to the project coordinator a report with the evolution obtained by the State during the OPMET controls carried out in the period 2012-2013-2014.	22 Oct 2014/10 Nov 2014	CAR States	Valid	Preliminary report
24	Develop and present the Final Report to ICAO/CAR on OPMET Exchange improvement	15 Nov 2014/05 Dec 2014	Coordinator	Valid	Final report

REVIEW OF THE WORK PROGRAMME

SAM PROJECTS

PROGRAMME: **H:** **AERONAUTICAL METEOROLOGY (MET)**

PROJECT: **H2:** **IAVW Implementation**

PROJECT COORDINATOR **Jorge Oscar Leguizamón (Argentina):** jolegui@smn.gov.ar; jolegui2010@gmail.com

EXPERTS: **Olver Boolsen (Argentina):** boolsen@smn.gov.ar
Walter Ríos (Bolivia): waraliaga@yahoo.es
Oscar Bermúdez (Colombia): obermud@aerocivil.gov.co
Jorge Armoa (Paraguay): jorge.armoa@meteorologia.gov.py; aeronautica@meteorologia.gov.py
Lourdes Martínez (Peru): lmartinez@corpac.gob.pe

No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Review and update the volcanic ash contingency plan for the SAM Region	06 Dec 2011/22 Dec 2011	Jorge Armoa	Valid	Doc. updated
2	Review the SIGMET Guide and present changes proposals	17 Jan 2012/15 Feb 2012	Jorge Leguizamón	Valid	Doc. updated
3	Establish a List of SIGMET Points of Contact ¹ (POC)	15 Dec 2011/15 Feb 2012	Walter Ríos	Valid	POC List
4	Update the SIGMET Guide based on Amendment 76 to Annex 3	01 Dec 2012/01 Feb 2013	Lourdes Martínez	Valid	Doc. updated
5	Develop the procedures for the transfer of responsibilities of the back-up MWO	05 Apr 2012/05 Jun 2012	Jorge Armoa	Valid	Procedure
6	Definition of dates for the Regional Meeting for the approval of the Contingency Plan with the ATM, AIM, AGA and MET areas.	18 Feb 2012/20 Feb 2012	Oscar Bermúdez	Valid	Meeting proposed
7	Review and update the protocol for the SIGMET Exercise on volcanic ash. Prepare the protocol exercise.	01 Oct 2012/01 Oct 2014	Olver Boolsen	Valid	Annually Protocol and appendices
8	Monitor the Annual SIGMET Exercise on volcanic ash	Dec 2011/Dec 2014	Olver Boolsen	Valid	Annually Appendix E
9	Attend general problems of the States	01 Dec 2011/31 Dec 2014	Jorge Leguizamón	Valid	Inform the Regional Office

¹ The Meeting emphasized that the POCs should be operational personnel.

REVIEW OF THE WORK PROGRAMME

SAM PROJECTS

PROGRAMME: **H:** **AERONAUTICAL METEOROLOGY (MET)**

PROJECT: **H3:** **QMS/MET Implementation**

PROJECT COORDINATOR: **Ricardo Reyes (Perú):** rreyes@corpac.gob.pe; rreyst05@hotmail.com

EXPERTS: **Olver Boolsen (Argentina):** boolsen@smn.gov.ar
Arthur Gonçalves Ferreira (Brasil): pln1.1@decea.gov.br
Xenia Guardia (Panama): xguardia@aeronautica.gob.pa
Roberto Salinas (Paraguay): roberto.salinas@meteorologia.gov.py; salinascr@hotmail.com
Lourdes Martínez (Peru): lmartinez@corpac.gob.pe

No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Update the CAR/SAM QMS Guide, with reference to: a) MET personnel competences; b) Amendment 76 to Annex 3	15 Dec 2011/30 Mar 2012	a) Ricardo Reyes b) Roberto Salinas	a) Valid b) Valid	Updated guide
2	Maintain the List of Points of Contact ² (POC) updated	15 Dec 2011/15 Dec 2013	Arthur Gonçalves Ferreira/Xenia Guardia	Valid	Updated POC(s) list
3	Prepare survey to States on MET personnel	15 Dec 2011/30 Mar 2012	Arthur Gonçalves Ferreira/Xenia Guardia	Valid	Identify deficiencies
4	Table of compliance with rules of Annex 3 and MET procedures	15 Dec 2011/30 Mar 2012	Focal points	Valid	Identify deficiencies
5	Tables of compliance to CAR/SAM ANP, Part VI, MET	15 Dec 2011/Mar 2012	Focal points	Valid	Identify deficiencies
6	QMS MET implementation plan in States AOP aerodromes	15 Dec 2011/30 Mar 2012	Focal points	Valid	Implementation plan
7	Audit tests	August 2011	Leader auditors-C/PG	Valid	Report
8	Project development course	March 2011	Coordinator	Valid	Course report
9	Report on problems for analysis and strategies of solution	15 Dec 2011/15 Dec 2013	Focal points	Valid	Continuous improvement
10	Supervision and continuous review of QMS/MET system at AOP aerodromes	15 Dec 2011/15 Dec 2013	Focal points	Valid	Continuous improvement

² The Meeting emphasized that the POCs should be operational personnel.

REVIEW OF THE WORK PROGRAMME

SAM PROJECTS

PROGRAMME: **H:** **METEOROLOGÍA AERONÁUTICA (MET)**

PROJECT: **H4:** **Optimization of OPMET exchange, including SIGMET (WS, WV and WC) and meteorological advisories and warnings**

PROJECT COORDINATOR: **Daniel Martins Neiva Filho (Brazil):** nor3@decea.gov.br, danielneivafilho@gmail.com

EXPERTOS: **Aníbal Castro Cárdenas (Bolivia) – RAPPORTEUR:** ancastro@dgac.gob.bo
Valdeci Donizeti Juliar da Franca (Brasil): jfrancavdjf@cindacta1.aer.mil.br
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Tjiettra Akloe (Suriname): cheetra@hotmail.com
José Ramón Pereira Bastida (Venezuela): jose.pereira@inac.gob.ve, meteope@yahoo.com

No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
1	Send by e-mail the OPMET Guide and the OPMET Control Tables	01 Dec 2011/01 Dec2011	Coordinator	Valid	Tables for verification
2	Review the OPMET Guide for CAR/SAM Region and propose updates, if necessary, in respect of SAM Region	02 Jan 2012/08 Aug 2012	SAM States	Valid	Corrected tables
3	Review the OPMET Control Table (schedule contents and MET stations)	02 Jan 2012/08 Aug 2012	SAM States	Valid	Corrected tables
4	Consolidate the information received from States (OPMET Guide)	01 Mar 2012/01 Apr 2012	Experts from Panama, Ecuador, Peru and Bolivia	Valid	Corrected tables
5	Consolidate the information received from States (OPMET Table – schedule contents and MET stations)	01 Mar 2012/01 Apr 2012	Experts from Venezuela and Brazil	Valid	Corrected tables
6	Develop OPMET control based on proposed updates	10 Jun 2012/06 Jun 2012	SAM States / Brasilia OPMET Bank	Valid	OPMET Control
7	Present the necessary amendments to the Guide and to the OPMET Control Table at the OPMET Meeting of the SAM Region	18 Jun 2012/01 Jun 2012	Coordinator/Rapporteur	Valid	OPMET Guide and Control table updated
8	Assess OPMET control results	17 Jun 2012/07 Aug 2012	SAM States	Valid	Not applicable
9	Submit the OPMET control results to ICAO/SAM and States	18 Aug 2012/01 Aug 2012	SAM States / Brasilia	Valid	OPMET Control

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No.	Task	Start - End	Responsible	Status	Deliverable
1	2	3	4	5	6
			OPMET Bank		
10	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	25 Aug 2012/05 Nov 2012	SAM States	Valid	Not applicable
11	Propose actions to the project coordinator to improve OPMET exchange	16 Nov 2012/05 Dec 2012	SAM States	Valid	Proposed actions
12	Propose actions to ICAO/SAM to improve OPMET exchange if necessary	01 Feb 2013/08 Feb 2013	Coordinator/Rapporteur	Valid	Proposed actions
13	Develop OPMET control	10 Jun 2013/16 Jun 2013	SAM States / Brasilia OPMET Bank	Valid	OPMET Control
14	Assess OPMET control results	17 Jun 2013/07 Aug 2013	SAM States	Valid	Not applicable
15	Submit the OPMET control results to ICAO/SAM and States	18 Aug 2013/01 Aug 2013	SAM States	Valid	OPMET Control
16	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	25 Aug 2013/05 Nov 2013	SAM States	Valid	Not applicable
17	Propose actions to the project coordinator to improve OPMET exchange	16 Nov 2013/05 Dec 2013	SAM States	Valid	Proposed actions
18	Propose actions to ICAO/SAM to improve OPMET exchange if necessary	01 Feb 2014/08 Feb 2014	Coordinator	Valid	Proposed actions
19	Develop OPMET control	10 Jun 2014/06 Jun 2014	SAM States / Brasilia OPMET Bank	Valid	OPMET Control
20	Assess OPMET control results	17 Jun 2014/07 Aug 2014	SAM States	Valid	Not applicable
21	Submit the OPMET control results to ICAO/SAM and States	18 Aug 2014/01 Aug 2014	SAM States	Valid	OPMET Control
22	Analyze OPMET control results received from States and from the Brasilia OPMET Bank	21 Aug 2014/01 Oct 2014	SAM States	Valid	Not applicable
23	Submit to the project coordinator a report with the evolution obtained by the State during the OPMET controls carried out in the period 2012-2013-2014.	22 Oct 2014/10 Nov 2014	SAM States	Valid	Preliminary report
24	Develop and present the Final Report to ICAO/SAM on OPMET Exchange improvement	15 Nov 2014/05 Dec 2014	Coordinator	Valid	Final report

Agenda Item 7: Any other business

7.1 The Meeting thanked the WAFS Provider State for the development of two important presentations. The first one about the transition from the second generation of the International Satellite Communications System (ISCS-G2) to the WAFS Internet File Service (WIFS), and the second on the International Airways Volcano Watch (IAVW).