



International Civil Aviation Organization

CAR/SAM Regional Planning and Implementation Group (GREPECAS)

Eleventh Meeting of the GREPECAS Aeronautical Information Management Subgroup (AIM/SG/11)

Bogotá, Colombia, 16 - 20 June 2008

AIM/SG/11-WP/17

02/06/08

Agenda Item 5: Review of Administrative Aspects of the AIS/MAP Subgroup

**5.2 Consideration of restructuring the AIM Subgroup.
Substitution of AUTO/TF with the creation of GIS/TF**

(Presented by the Secretariat)

SUMMARY

This Working Paper evaluates the updating of the Subgroup organic structure in the GREPECAS Aeronautical Information Management. It is also presented the Automation Task Force substitution, which in two years have not met, for the new GIS Task Force creation.

References:

- AIS/MAP/SG/10 Meeting – (Caracas, Venezuela, 2006)
- GREPECAS/14 Meeting – (San Jose, Costa Rica, 2007)

1. Introduction

1.1 This working paper requests the Meeting the analysis and scope of the current AIM Subgroup organic structure with the view to improve the functioning of the effectiveness of the Subgroup functioning, specifically, regarding the substitution of the Automation Task Force (AUTO/TF), which in the last two years have not met, for a new GIS Task Group (GIS/TF). This new structure of the contributory body, if approved, will be presented in the next GREPECAS/15 Meeting.

2. Discussion

2.1 Also, and for the Meeting's consideration, this Secretary considers convenient to evaluate the AIS/MAP Database and Automation Task Force which, regrettably, have delayed their activities, and all assigned works are not updated. In the other hand, the new concepts and technologies have developed new activities on Spatial Database which have a significant relation with the AIM Electronic Aeronautical Charts Task Force. Therefore, the Meeting should considered the importance of consolidating the current tasks of the AUTO/TF Group, and the new task that the actual technology demands of the Geographical Information System (GIS), which contains the AUTO fundamental concepts and other related items with the geo-referenced spatial information.

2.2 Regarding AIM/SG restructuring, considering a new organic structure/functional in the mentioned Subgroup, and the variety of new activities that implies its development, the Meeting is requested to analyze the following proposed action:

- a) Eliminate the AIS/MAP Database and Automation Task Force as a contributory group of the AIM Subgroup;
 - Eliminate their terms of reference, programme and composition.
- b) Create a new Geographical Information System (GIS) Task Force in a coordinated action with AIM contributory bodies;
 - Incorporate the name of Geographical Information System Task Force (AIM/GIS/TF) and new terms of reference, programme and composition.

4. Suggested action

4.1 Taking into account the content of this working paper, including Appendix A and B, the Meeting is requested to consider the change proposals suggested for the AIM Subgroup and for their contributory bodies, and if necessary, submit them to the GREPECAS/15 Meeting's consideration for the actions to be considered pertinent, with the view to make more effective the AIM Subgroup functioning.

4.2 The Meeting is invited to:

- a) Analyze thoroughly the content of this Working Paper and its corresponding Appendices
- b) Adopt, if it is required, concrete actions on the proposed changes in the organic and functional structure of the AIM Subgroup, and
- c) Submit, if it is the case, to GREPECAS/15, pertinent actions on this issue, due supported.

APPENDIX A

TERMS OF REFERENCE AND WORK PROGRAMME OF THE AERONAUTICAL INFORMATION MANAGEMENT SUBGROUP (AIM/SG) (AIM/SG)

1. Terms of Reference

Foster and ensure the evolution of CAR/SAM Aeronautical Information ~~Services~~ *Management* from a manual operational environment to an environment where digital aeronautical information of high quality and integrity is processed and exchanged electronically to support the implementation of CNS/ATM, GNSS, ATM and a state-of-the-art FMS

2. Work Programme

- a) Develop strategies and policies to establish the basic requirements and planning criteria for the evolution of AIS Services ~~within transition~~ to an effective Aeronautical Information Management (AIM) environment, in keeping with the components of the Global Inter Operational Concept.
- b) Coordinate ~~the application- implementation~~ of quality systems in AIM services in keeping with the relevant ISO standards; propose action plans for the implementation by CAR/SAM States of these types of systems. ~~and assess the problems facing AIM services for the implementation of the cited systems.~~
- c) Define the requirements to ensure due process when evaluating personnel within the framework of ~~effective~~ aeronautical information management, together with the consistent application ~~of CAR/SAM AIM~~ training programmes, ~~also~~ taking into account the need for basic criteria to ensure the development of an English language training programme related to effective aeronautical information management.
- d) *Coordinate the development of basic operational requirements and the required strategies for adoption of aeronautical information conceptual and exchange models (AICM/AIXM) in the CAR/SAM Regions, in order to facilitate the electronic Exchange of digital aeronautical information/data between operational systems and their mutual inter-functionalities, both within the CAR/SAM Regions, as well as between these and other ICAO Regions..*
- e) Implement ~~practical~~ guides to assist the States in the provision of electronic terrain and obstacle data (Doc 9881) for the electronic representation of aeronautical charts. ~~as well as in the drafting of electronic aerodrome obstacle charts, as required.~~
- f) Conduct ~~the required relevant studies~~ *guidance material* for the use of geographical information systems (GIS) in AIM; also, prepare technical guides for the production by CAR/SAM Status of VFR aeronautical charts (scales between 1:500,000 and 1:1,000,000) in digital format.

- g) Periodically update the CAR/SAM Regional Navigation Plan (Part VII, AIS) in order to ensure its effective evolution with respect to the Global CNS/ATM Plan and in keeping with the SARPS contained in ICAO Annexes 4 and 15.
- h) Promote and follow-up on the effective implementation of ~~AIM requirements~~ *SARPS of ICAO Annexes 4 and 15 of the CAR/SAM Regional Air Navigation Plan* in keeping with established procedures in order to take corresponding corrective action to resolve deficiencies affecting air operations.
- i) Coordinate, on an ongoing basis, with all GREPECAS contributory bodies, in order to ensure proper integration of all areas contributing to CNS/ATM implementation.

APPENDIX A-3

**TERMS OF REFERENCE AND WORK PROGRAMME OF THE AERONAUTICAL
INFORMATION MANAGEMENT DATA BASE TASK FORCE
(AIM/DB/TF)**

1. Terms of Reference

Promote, within the effective aeronautical information management context, the harmonized and consistent development of technical specifications for the implementation of the appropriate automated systems that will ensure the electronic exchange of digital aeronautical information/data of high quality and integrity in the CAR/SAM Regions, within the context of a global exchange of information.

2. Work Programme

- a) Define basic requirements and planning criteria for the final implementation of the CAR/SAM Integrated Automated AIS System, considering the agreed criteria for the RAN CAR/SAM/3, regarding CASADAB
- b) Prepare technical guidelines required to promote in CAR/SAM Regions the AIS System application in direct support to CNS/ATM Systems, to GNSS System, Operational ATM and, inclusive, the Flight Management System (FMS).
- b) Speed pertinent studies on the technical criteria development on the integrated automated process of PIB/AIS, MET y FPL products as a support to the electronic supply of a previous information service and after the flight in CAR/SAM International Airports.
- c) Based on the existent specification, define Basic operation requirements and planning criteria for the applying and development of AICM and AIXM concepts for their regular use in all automated AIS Systems for their application in CAR/SAM Regions.
- d) Support directly the evolution and application of the AIM concept in CAR/SAM Regions

3. Composition

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4. Rapporteur

Alternate rapporteur

APPENDIX A-5

**TERMS OF REFERENCE AND WORK PROGRAMME
OF THE GEOGRAPHICAL INFORMATION SYSTEMS TASK FORCE
IN THE AERONAUTICAL INFORMATION MANAGEMENT
(AIM/GIS/TF)**

1. Terms of reference

Promote within the aeronautical information management the harmonized and coherent development of technical specifications for the implementation of geographical information systems allowing ensuring the geo-spatial information/aeronautical digital data management of high quality and integrity in CAR/SAM Regions, within a global information exchange context.

2. Work Programme

- a) *Define planning Basic criteria requirements for the final implementation of a Geographical Information System considering the agreed criteria by the RAN CAR/SAM/3 regarding to CASADAB and to aeronautical information automatization.*
- b) *Develop technical guidance required to promote the application of the Geographical Information System directly to CNS/ATM Systems, to GNSS System, ATM Operational System and inclusive the evolved Flight Management System (FMS).*
- c) *To speed pertinent studies on the development of technical criteria on harmonization and automated integrated process of the products: AIP, AIC, SUP, AMD/AIP, PIB/AIS, MET y FPL and aeronautical charts as a support to the electronic provision of the information/aeronautical data users, as well as the previous information services and after flight in the CAR/SAM international airports.*
- d) *To consider the existent specification y the basic operational requirements and the criteria for applying the AICM and/or AIXM concepts for the regular use in all AIM information/aeronautical data exchange systems in the CAR/SAM Regions and others.*
- e) *To support directly in the evolution and application of the AIM concept in CAR/SAM Regions*

3. Composition

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4. Rapporteur

Alternate Rapporteur