



Agenda Item 5: Other air navigation matters

REVIEW OF AIS/MAP – AIM ACTIVITIES

(Presented by the Secretariat)

SUMMARY

This working paper presents the most important AIS/MAP – AIM matters to be discussed by the States/Territories/International Organizations.

References:

- Report of the Tenth Meeting of the GREPECAS Aeronautical Information Services Subgroup (AIS/MAP/SG/10) (Caracas, Venezuela, 26 February - 02 March 2007).
- Report of the GREPECAS/14 Meeting (San Jose, Costa Rica, 16 – 20 April 2007).
- Previous meetings in the CAR Region.

1. Introduction

1.1 The Tenth Meeting of the GREPECAS Aeronautical Information Services (AIS) Subgroup reviewed the conclusions and decisions of the previous Subgroup's meetings and of GREPECAS, considering that there were still very important matters pending solution in the AIS/MAP, that should be taken care of through concrete actions, in accordance with the terms of reference of the Subgroup, such as regional planning and implementation for the development concerning automation of the aeronautical information services, digital processing of aeronautical information integrated documentation and of relational databases including terrain data and obstacles, as well as the standardization of aeronautical charts and their evolution towards providing information services in electronic format and the respective AIS/MAP (AIM) quality assurance programmes.

2. Discussion

2.1 AIS/MAP-Related Pending Tasks

2.1.1 In accordance with previous meetings in the CAR Region, the defined work programme should be updated in order to include the seven main tasks still pending until they are finalized. These are listed below including a reference to their implementation status before this Meeting.

<i>Task No. 1. Resolve, under the ICAO NACC Office coordination, the discrepancies of the WGS-84 coordinates of common points in the adjacent FIRs, published in the AIPs of the States/Territories of the Caribbean and their adjacent regions.</i>
To date, no information in the Regional Office indicates that these discrepancies in the area have been resolved. <u>The NACC Regional Office should be informed on the progress attained with regard to WGS-84 coordinates publication agreements.</u>
<i>Task No. 2. Contribute to the coordination and follow-up of the total implementation of WGS-84 in the Caribbean States/Territories.</i>
The harmonization of the bordering FIRs coordinates for the CAR Region is still pending. <u>The NACC Regional Office should be informed on the progress attained with regard to WGS-84 coordinates publication agreements in the respective AIPs.</u>
<i>Task No. 3. Carry out the coordination, assistance and follow-up of the implementation of a standard AIS/MAP Quality Assurance System in the Caribbean States/Territories.</i>
As stated in the report of the GREPECAS/14 Meeting, this is a priority task for AIM services (AIS/MAP), therefore, the ICAO NACC Office should be informed on the status of implementation of the <u>quality management system of the States/Territories.</u> Recently, the GREPECAS/14 approved a conclusion on the adoption of part 4 of the <i>Guidance Manual for the Implementation of an AIS/MAP Quality System in the CAR/SAM Regions.</i>
<i>Task No. 4. Promote, with the assistance of the ICAO NACC Office, training actions related with the correct application and effective compliance with the quality requirements of the aeronautical data established in the ICAO Annexes 15, 11 and 14, in support of the AIS/MAP Quality Management System as referenced in Doc 9881 (Guidelines for Electronic Terrain, Obstacle and Aerodrome Mapping Information).</i>
The ICAO Council approved a Special Implementation Project (SIP) aimed at training, through a <i>Seminar on the new standards derived from the amendments to Annexes 4 and 15 according to the development of CNS/ATM systems in the CAR/SAM Regions on e-TOD</i> , where the importance of holding a training event on the understanding and interpretation of the tables of quality requirement of aeronautical and electronic data on terrain and obstacles will be reviewed. <u>The “E-TOD Seminar” will be held in November in Dominican Republic. The civil aviation authorities of the Region should seriously consider the participation of AIS/MAP experts at this important event.</u>
<i>Task No. 5. Recommend the necessary actions to develop and assist States/Territories with implementing the AIS Automation Plan approved for the Caribbean developing the relevant databases.</i>
ICAO Council informed on assistance to formalize a regional co-operation project to help solving the AIS deficiencies among which the following stand out: - Digital development of aeronautical charts for visual or instrumental navigation - Quality assurance - Automation - Diffusion of AIPs by electronic means - Implementation and harmonization of WGS-84 coordinates During the GREPECAS/14 Meeting, it was reported that ICAO would have the Global Model for the Exchange of Aeronautical Information/Data (AIXM) ready by end 2007, and therefore, ICAO was urged to define the corresponding guidelines as soon as possible.
<i>Task No. 6. Review, propose actions and follow-up on the implementation of AIS/MAP requirements established in the CAR/SAM ANP and in GREPECAS conclusions</i>
The Table of Deficiencies controls the follow-up of the implementation of AIS/MAP requirements established in the ANP. In most cases, the table is not updated. <u>The NACC Regional Office should be</u>

notified on the action plans to resolve the AIS/MAP deficiencies.
<i>Task No. 7. Study the elements of human factors applied to the AIS/MAP, in accordance with the AIS/MAP/SG/10 Meeting results.</i>
GREPECAS/14 Meeting reviewed the <i>Application of human factors principles to Aeronautical Information Management (AIM)</i> , considering that the AIS/MAP Subgroup changes its name as AIM Subgroup. The Subgroup will begin the necessary actions for the development of the principles of human factors in aeronautical information management and their application. The need for developing a Manual containing guidelines on human factors and a plan for their implementation was also posed, including the activities aimed at guiding human factors within the air navigation systems. The AIS/MAP Quality Management Task Force of the GREPECAS AIM Subgroup, in its new Terms of Reference and Work Programme has foreseen the development of relevant guidelines for determining the proficiency of AIS/MAP personnel, in compliance with the requirements established in Standard ISO:9001:2000 concerning human resources management.

2.2 The CAR States/Territories are requested to follow-up on the work programme at their earliest convenience. The updated information should be sent to the NACC Regional Office by e-mail to: icao_nacc@mexico.icao.int)

3. Suggested Action

3.1 The Meeting is invited to:

- a) note the information container in this working paper;
- b) inform the ICAO NACC Office on the progress attained with regard to the tasks table presented in paragraph 2.1.1 by **27 September 2007**, and
- c) approve the following Draft Conclusion to be referred to the next Meeting of Directors of Civil Aviation of the Caribbean:

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CONCLUSION 1/X

PARTICIPATION OF AIS/MAP-AIM OFFICERS IN THE SEMINAR ON TERRAIN AND OBSTACLES ELECTRONIC DATA (e-TOD)

That, in accordance with the ICAO NACC Office Meeting and Seminars Schedule, Civil Aviation Authorities of the CAR States/Territories/International Organizations consider in their training plans the participation of AIS/MAP officers in the Seminar on Terrain and Obstacles Electronic Data (e-TOD), scheduled for November 2007 in view of the importance of this fact for the support to the implementation of the ATM system.