



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/15 – Rev. 2

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Agenda Item 4:

Review of the Implementation Process

4.4 Follow-up on e-TOD implementation (electronic terrain and obstacle data), action taken by CAR/SAM States regarding Annex 15, Chap. 10, Appendix 8 SARPS and guidance from Doc. 9881 (Conclusions 9/7 and 9/9 of the AIS/MAP/SG/9 Meeting)

(Presented by the Secretariat)

SUMMARY

This working paper has the objective to request CAR/SAM Regions States to inform ICAO Regional Offices on the actions adopted on the provision of Electronic Terrain and Obstacle data (e-TOD).

References:

- Annex 15
- ICAO Doc. 9881 – Guidelines for electronic terrain obstacles and aerodromes mapping information.
- Report on GREPECAS/14 Meeting (San José, Costa Rica 16-20 April 2007)

1. Introduction

1.1 During AIS/MAP/SG/10 Meeting some technical considerations were presented regarding the provision requirement by CAR/SAM States/Territories on the Electronic Terrain and Obstacle data concerning their respective territories (Area 1) and designated Areas (Areas 2, 3 and 4), according to ICAO Annex 15, Chapter 10. It is recognized the importance of key elements which directly impact the implementation of the required data in electronic aeronautical chart display, and one of these key elements would be constituted by the electronic terrain and obstacle availability data with large integrity and reliability levels.

1.2 With the implementation of ground and flight applications big international civil aviation safety benefits are expected, which are based on electronic terrain and obstacle data, as well as world-wide level in air traffic control units which are integrated by systems that make use of electronic terrain. Nevertheless, the performance of these applications is based on multiple information sources which might have a distortion from insufficient or inappropriate quality specifications.

1.3 During GREPECAS/14 Meeting the problem of electronic terrain and obstacle data display in aeronautical charts was discussed and was recognized based on electronic terrain and obstacle data availability and which CAR/SAM States must provide with large integrity and reliability levels. This is reflected in Conclusion 14/40 of GREPECAS Meeting which is **Attached** for ease of reference.

2. Discussion

2.1 It is urgent to satisfy the necessary requirements of electronic terrain and obstacle data, taking into account the cost-benefit relation, method and technology acquisition and available information. This information should be provided according to the ICAO four basic coverage par 10.2.1 to 10.2.4 from Airport Reference Point (ARP) to correspond with existent specifications for the provision of topographic planes and aerodrome terrain and obstacle, ICAO Annex 4, Chapter 5.

3. Suggested action

3.1 To evaluate the content of this working paper on the availability of electronic terrain and obstacle data from States within 2008 and 2010, and with the objective to promote the effective compliance of technical requirements, the Meeting is invited to:

- a) Comply with Conclusion 14/40 (Availability of electronic terrain and obstacle data in CAR/SAM Regions);
- b) Inform ICAO NACC Office of the implementation plans or the difficulties to implement e-TOD, and
- c) Formulate an integral plan for Technical Cooperation regarding cost-benefit for Regions, instead of individual States/Territories.

APPENDIX

CONCLUSION 14/40

COMPLIANCE WITH SARPS CONTAINED IN CHAPTER 10 OF ICAO ANNEX 15 (ELECTRONIC TERRAIN AND OBSTACLE DATA)

That the States and Territories of the CAR and SAM Regions, with a view to ensuring the provision of electronic terrain and obstacle data, take action in order to:

- a) include in their planning as soon as possible, the implementation of all required procedures to ensure that electronic terrain and obstacle data be provided in the period between 20 November 2008 (Annex 15, 10.6.1.1) and 18 November 2010 (Annex 15, 10.6.1.2), respectively, as established;*
- b) ensure effective compliance of item a), through the establishment of a team of specialists in charge of the development of corresponding technical studies on this matter;*
- c) put into practice an action plan oriented towards the collection of sets of electronic terrain and obstacle data for their classification, storage and availability in digital databases in accordance with the contents and structure specified in Appendix 8 to ICAO Annex 15; and*
- d) ensure availability of electronic terrain and obstacle data of the State's national territory through coordination with national geographic institutes to have aeronautical Visual (VFR) flight Charts available in digital format at scales between 1:250,000 and 1:1,000,000, respectively.*

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