



ICAO

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INFORMATION PAPER

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Second NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/2)
Puntarenas, Costa Rica, 1 to 4 June 2015

Agenda Item 4: Follow-up on the NAM/CAR Regional Performance Based Air Navigation Implementation Plan (NAM/CAR RPBANIP)

4.1 Progress reports of the Task Forces and the ANI/WG

AIM ROADMAP IMPLEMENTATION PROGRESS IN THE REPUBLIC OF CUBA

(Presented by Cuba)

EXECUTIVE SUMMARY	
This information paper describes progress in the implementation of ICAO's roadmap for the transition from AIS to AIM in the Republic of Cuba.	
<i>Strategic Objectives:</i>	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Environmental Protection
<i>References:</i>	<ul style="list-style-type: none">• ANI/WG/1 Final Report• National Strategic Plan for transition to AIM• AIM Seminar/Workshop Presentation, Jamaica, July 2012• ICAO's roadmap for the transition from AIS to AIM

1. Introduction

1.1 To meet the new requirements derived from the operational concept of the Global Air Traffic Management, aeronautical information services must make a transition to a broader concept of aeronautical information management with a different method to provide and manage information, given its data-focused approach compared to the product-focused approach of the AIS.

1.2 In the Republic of Cuba and based on the conclusions and decisions resulting from global and regional meetings prepared by ICAO, work has been intense to achieve an effective transition from AIS to AIM

1.3 Thereby, a National Strategic Plan for transition to AIM was developed based on ICAO's roadmap, which every year includes an action plan that gradually allows monitoring and compliance to the steps defined for the different phases.

2. Development

2.1 Our National Plan, as the roadmap, consists of three basic phases to achieve the transition. The following describes the status of the elements that have been completed or are in process to be completed in the Cuban State for each phase.

Phase 1. Consolidation			
Step No.	Element	State	Reviews
S-05	Implementation of WGS - 84	implemented	The system is completed since 1998
S-17	QMS	implemented and certified	The system has been certified several times
S-03	Monitoring of the compliance of the AIRAC Standards	implemented	Amendments and pertinent publications are carried out with the AIRAC system
S-04	Monitoring of the differences between States with regard to Annexes 4 and 15	implemented	A monitoring system of the differences has been implemented, and even differences related with SARPS and PANS are reported through the new EFOD tool. Differences are also published through the AIP.

Phase 2. Digital transition			
Step No.	Element	State	Reviews
S-11	e-AIP	in process	The digital AIP is available in a web site of the AIS in the Civil Aviation Intranet and we have been working to have it available on the Internet. Charts published in the AIP are also digitized and available in the same website. By 2015, an e-AIP module will be acquired as a complement to the database that includes the AIXM. See 5.1.
S-06	Integrated databases		
S-08	Aeronautical information conceptual model		
S-13 S-14	e - TOD	in process	Data from the obstacles of the Area 1 are already published in the AIP. For the moment, the digital model of the terrain of this area won't be implemented. For Areas 2 and 3, the uprisings of the obstacles are only made at airports with more than 1000 operations per month, such as: José Martí International Airport in Havana and Juan Gualberto Gómez in Varadero. It is expected to be published in 2015. Up to date, is not intended to take field measurements for these areas.

Phase 3. Information management			
Step No.	Element	State	Reviews
S-10	Communications networks	in process	The Cuban AMHS is being developed to conduct the 2015 interoperability testing
S-16	Training	in process	The Course AIM New Concept has been delivered to all the personnel, Seminars on ICAO's roadmap have been carried out for the transition to the AIM and national requirements have been applied to the AIM staff for reaching an appropriate English level by 2016
S-18	Agreements with the data originators	in process	Existing agreements with data originators have been deepened, improving quality procedures

2.2 In sum, it can be concluded that the AIM implementation chronogram by phase, designed by the Cuban State, is as follows:

Phase 1: Completed

Phase 2: To be completed in 2018 (estimated date)

Phase 3: To be completed in 2018 (estimated date)

3. Conclusions

3.1 Aeronautical Information has become a crucial and critical component of the present and future ATM system and has to be developed to meet the AIS service covering all phases of flight.

3.2 The roadmap for the transition from AIS to AIM has served our State as a practical guidance and advice in planning for the development of strategies for implementation and funding that are necessary for the global plan initiatives related to aeronautical information. In addition, it has provided us with a strategic positioning to promote the continuous improvement of aeronautical information services in terms of quality, timeliness and identification of new services and products to provide best services to aeronautical users.

3.3 The strategy for the gradual implementation of the AIM in Cuba was prepared based on these objectives of identifying important requirements and components of aeronautical information management, able and sufficient to support the demands required by CNS/ATM navigation. The establishment of stages of gradual implementation since 2007 and until 2018, that include human resources and investment planning in their development, has been of vital importance to the future projection of this specialty in our country.