



International Civil Aviation Organization

NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE

Twenty-Eighth Eastern Caribbean Working Group Meeting (28 E/CAR WG)

Montserrat, 26 to 30 April 2004

28 E/CAR WG – WP/22

06/04/04

Agenda Item 3: Specific Air Navigation Activities and Developments
3.7 Communications, Navigation and Surveillance (CNS)

GNSS DEVELOPMENTS

(Presented by Barbados)

SUMMARY

The E/CAR Region was introduced to CNS/ATM at the CAR/SAM RAN 2 Meeting in Santiago, Chile in 1989. The Region had made some significant strides in its early implementation but has lost momentum in recent times. This paper seeks to examine the development that has taken place in the Region and the wider world since 1989, and to appeal for a renewed thrust towards accomplishing CNS/ATM objective within the preset time frames.

1. Introduction

1.1 History records that ICAO introduced the Region to CNS/ATM at the CAR/SAM RAN/2 Meeting in 1989 in Santiago, Chile. At that Meeting the Region was sensitized of the benefits and cost savings that could be derived from the implementation of CNS/ATM. The Region being alert to that fact embraced the CNS/ATM concept and embarked on a phase-approach towards the implementation of certain aspects of CNS/ATM.

2. Background

2.1 The E/CAR WG and the E/CAR Directors of Civil Aviation appointed InterCaribbean Aeronautical Communications Ltd. (IACL) as the entity to coordinate the implementation of CNS/ATM in the Region. All States developed local CNS/ATM Plans and an E/CAR Regional CNS/ATM Plan was established. IACL as coordinator sponsored the conduct of planimetric surveys in States and the changing of references to conform to the ICAO's WGS-84 System. Indeed IACL continued by having the RNAV GPS Non-Precision Approaches built and flight tested for most States. The Regions' CNS/ATM Plan was therefore established.

3. Fact

3.1 Since the successful completion of the above captioned exercises some five years ago there has been very little progress in the Region. GNSS training that is readily available is slowly being accessed by States. Only one State has implemented RNAV GPS Approaches. CNS/ATM Plans in some States are in need of updating. There has been no coordinated Regional effort towards the phased implementation of CNS/ATM elements as required by the Regional CNS/ATM Plan.

3.2 Other Regions that were not as advanced as the E/CAR Region five years ago have caught up and gone ahead leaving the E/CAR Region lagging behind. By 2008 the aviation world will have three constellations, GPS, GALILEO and GLONASS available for navigation. At the same time, a number of Regions would have implemented Space Based Augmentation Systems such as, WAAS, EGNOS, MSAS and GAGAN capable of supporting CAT 1 Approaches.

3.3 The E/CAR Region is in dire need of renew impetus in its CNS/ATM programme to move the process forward.

4. Action Required

4.1 The Meeting is being requested to:

- 1) encourage States to complete the GNSS training and implement their RNAV GPS Approaches;
- 2) encourage States CNS/ATM Plan coordinators to meet with IACL and update CNS/ATM Plans; and
- 3) develop and implement urgent action to give impetus to early implementation of CNS/ATM in the E/CAR Region.