



International Civil Aviation Organization

The Sixth Meeting of the Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/6)

Bangkok, Thailand, 15 to 17 March 2011

Agenda Item 4: Review of APANPIRG/21

Questionnaire on Survey Inventory Related to WGS-84 Implementation

(Presented by the Secretariat)

SUMMARY

APANPIRG and States have been working towards WGS-84 implementation for many years, however, considerable work still remains. The implementation of PBN is dependent on States providing geographical coordinates based on the same geodetic datum, i.e. WGS-84, in conformity with provisions contained in Annexes 4, 11, 14 and 15. This paper suggests that the questionnaire on WGS-84 implementation be undertaken by the Regional Office.

Action by AAITF/6 is at paragraph 3.

1. INTRODUCTION

1.1 Current and future developments in satellite technology will, to a large extent, reduce the dependence of civil aviation on ground-based navigation aids, as well as permit improvements in overall efficiency of air navigation systems. In this regard, the implementation of the World Geodetic System of 1984 (WGS-84) should be expedited to facilitate the implementation of the Performance Based Navigation (PBN) within the Region.

1.2 The implementation of PBN is dependent on States providing geographical coordinates based on the same geodetic datum, i.e. WGS-84, in conformity with provisions contained in Annexes 4 – *Aeronautical Charts*, 11 – *Air Traffic Services*, 14 – *Aerodromes* and 15 – *Aeronautical Information Services* to the Convention on International Civil Aviation. It is therefore essential that all ICAO Contracting States be fully compliant with WGS-84 provisions.

2. DISCUSSION

2.1 To this effect, a regional survey to review the status of implementation of WGS-84 throughout the Region is suggested, as described in the following paragraphs.

2.1.1 APANPIRG and States have been working towards WGS-84 implementation for many years and a large part of the work have been completed by most States. However, considerable work still remains.

2.1.2 Additionally, the WGS-84 reference system requires regular updating. APANPIRG recognizes that implementation is now most urgent, as availability of geographical coordinates in the commonly agreed WGS-84 reference system is a prerequisite for States to obtain the benefits of PBN,

and also an important step in preparing for the transition from Aeronautical Information Services (AIS) to Aeronautical Information Management (AIM), for which the provision of digital geographic data of appropriate quality will be essential.

2.1.3 In order to allow for a comprehensive analysis of the status of implementation of WGS-84 throughout the Region, it is important that appropriate background information be provided to substantiate any discrepancy in the current implementation status.

2.1.4 As mentioned above, significant progress has been achieved in the implementation of WGS-84. Therefore, in case States satisfied WGS-84 being fully implemented in accordance with relevant ICAO Standard and Recommended Practices (SARPs) over their territory and published accordingly, it is considered that a simplified status report on WGS-84 would be sufficient.

2.1.5 However, in case implementation of WGS-84 is still not fully completed but only accomplished in part, or is in progress, it is essential that appropriate information be provided by the State concerned through a detailed status report.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) consider the way forward to facilitate the implementation of WGS-84; and
- b) agree with the questionnaire on the status of implementation of WGS-84.

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