



International Civil Aviation Organization

**Thirteenth Meeting of the APANPIRG
ATS/AIS/SAR Sub-Group (ATS/AIS/SAR/SG/13)**

Bangkok, Thailand, 23 – 27 June 2003

Agenda Item 4: Consider problems and make specific recommendations concerning the provision of ATS/AIS/SAR in the Asia/Pacific Region

AIS IMPLEMENTATION TASK FORCE

(Presented by Australia, New Zealand, China, Republic of Korea and Japan)

SUMMARY

This paper considers the on-going works after the AISMAP Divisional Meeting (AISMAP98) held in Montreal on 23 March – 3 April 1998, and the present situation of AIS implementation in the Asia/Pacific Region.

1. INTRODUCTION

1.1 The Air Traffic Management (ATM) environment has evolved over the last forty years from a mainly procedural based system in which aircraft is navigated by the specific radio navigation facilities NDB, VOR etc. to an RNAV based system with radar coverage. The process of evolution has been enabled by the introduction of automated air and ground systems and their associated databases. Progressively, the systems have depended on the availability and reliability of digital navigation databases which are assembled by data derived from appropriate paper-based aeronautical information publications (AIP) and associated documentation.

1.2 The role and function of aeronautical information has been changing significantly, as is described in the chapter 9 “*Aeronautical Information Services*” of ICAO Global Air Navigation Plan for CNS/ATM Systems.

To correspond to this change, the following issues were discussed in Aeronautical Information Services/Aeronautical Charts (AIS/MAP) Divisional Meeting 1998 (AISMAP98) held on 23 March – 3 April 1998.

- a) Aeronautical Data Bases
- b) Aeronautical Charts
- c) Exchange of Aeronautical Information
- d) Requirements for AIS/MAP Personnel

2. DISCUSSION

2.1 ICAO activity

2.1.1 Each state has recognized the importance of a standardized data model to exchange aeronautical data among various Aeronautical Data Bases in the world, and AISMAP98 adopted the following recommendation.

“evaluate and validate the proposed ICAO and the United States/EUROCONTROL data models in accordance with the validation objectives of paragraphs 1.1.5.11 and 1.1.5.12 of the Report of Agenda Item 1.1, and present a proposal for action to the ANC, in due course.”

As a result of the recommendation, Aeronautical Data Modeling Study Group (ADMSG) had been established to evaluate and validate data models.

2.1.2 In addition, the following items have been studied by AISMAP Study Group (AISMAPSG) to create the draft of SARPs.

- a) Electronic terrain data
- b) Electronic aeronautical chart
- c) Aerodrome Obstacle Charts
- d) Quality System
- e) GNSS NOTAM
- f) AIS Personnel Licensing

2.1.3 With advancement of these ICAO activities in the field of AIS, the amendments of ANNEX4, ANNEX15, AIS Manual and Chart Manual have been commenced. It is planned, between North American and European Regions, to commence the exchange of aeronautical data from 2006.

Asia/Pacific Region should correspond to such developments.

2.2 On the other hand, the implementation of ICAO SARPs related to AIS has been required. Especially, the SARPs on the following issues should be implemented promptly in the Asia/Pacific Region.

- a) AIRAC Adherence
- b) Timely, accurate and integrated dissemination of regional changes to aeronautical information involving several States
- c) Transition to WGS-84
- d) Prompt supply of Aeronautical Information

2.3 Accordingly, appropriate activities are necessary in the Asia/Pacific Region to assist each state to implement SARPs related to AIS and to correspond to the quick advancement in the field of AIS. The activities should include the reactivation of AIS Automation Task Force (AATF) which developed the draft of new guidance materials for AIS in the Asia/Pacific Region and was adjourned last year. The reactivated task force should not study only AIS Automation but also the acceleration of implementation of ICAO SARPs in the Asia/Pacific Region.

3. RECOMMENDATION

3.1 The meeting is invited to:

- a) Note the contents of this paper, and.
- b) Consider the reactivation of the AIS Automation Task Force (AATF) with attached Terms of Reference. And the name of Task Force should be changed to AIS Implementation Task Force(AITF).

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TERMS OF REFERENCE

The Working Group shall:

- a) Examine method of support to enforce ICAO SARPs AIS in Asia/Pac Region.
- b) Accelerate introduction of the quality system to Aeronautical Information Services in Asia/Pac Region.
- c) Prepare an amendment to the relevant Regional Air Navigation Plan or the Facilities and Services Implementation Document(FASID) as appropriate.
- d) Examine the correspondence of other regions and the possibility to apply it to the Asia/Pacific Region
- e) Accelerate utilization of the Guidance Material in Asia/Pac Region and prepare an amendment to this as appropriate.

And

- d) Consider:
 - Outcomes from ICAO ADMSG (Aeronautical Data Model Study Group)
 - Outcomes from ICAO AISMAPSG (AISMAP Study Group)
 - Amendment to ANNEX4, ANNEX15, AIS Manual and Chart Manual
 - Amendment to EUROCONTROL OPADD (Operating Procedures for AIS Dynamic Data)
 - Develop Guidance Material for Static Data Procedures
 - AIS automation plan