



International Civil Aviation Organization

**THE NINTH MEETING OF THE SOUTHEAST ASIA AND BAY OF BENGAL
SUB-REGIONAL ADS-B IMPLEMENTATION WORKING GROUP
(SEA/BOB ADS-B WG/9)**

Beijing, China, 30 October - 1 November 2013

Agenda Item 3: Updating implementation and co-ordination activities

ADS-B IMPLEMENTATION PLAN IN MALDIVES

(Presented by Maldives)

SUMMARY

This paper presents information on the ADS-B implementation plans in the Maldives.

1. INTRODUCTION

1.1 As the Air Navigation Service Provider (ANSP), Maldives Airports Company Limited (MACL) has completed installation and commissioning of 4 nos. ADS-B ground stations supplied by Comsoft of Germany in November 2012.

1.2 Two stations are installed at Male' Ibrahim Nasir International Airport (INIA), 1 station at the North in Kulhudhuffushi island and 1 station at South in Fuah Mulah island.

1.3 The work to integrate the ADS-B sensor data to the ATM automation system is planned for next week with Site Acceptance scheduled in mid-November 2013.

2. DISCUSSION

2.1 Maldives has a single Monopulse Secondary Radar installed at Male INIA with an operational range of 220NM. The coverage we get from this radar is not sufficient for surveillance of the whole of Maldives FIR which contains mostly of oceanic airspace. The main objective of installing the ADS-B sensors is to fill this surveillance gap and as a backup surveillance source to the MSSR

2.2 With the installation of ADS-B sensors at North and South of the country, we now have approximately 95% surveillance coverage of the FIR above FL290.

2.3 Mix of IFR and VFR operation within Male' TMA and beyond requires continuous surveillance for the efficient and safe conduct of Air Traffic control. The majority of the seaplane operation is concentrated within 80NM from Male TMA. ADS-B station installed at Male' enables us to monitor the seaplane movements from sea level to 6000ft up to 80NM. All twin-otters operating are equipped with ADS-B IN/OUT avionics.

2.2 Maldives plan to deploy an ADS-B expert through ICAO Technical Cooperation Bureau to assist in the development of ADS-B concept of operations, policy to use of technology, regulations and phased operational implementation.

2.4 Monitoring and collection of the transmitted ADS-B data is presently being carried out.

2.5 Maldives has plans to share ADS-B data with Adjacent FIRs.

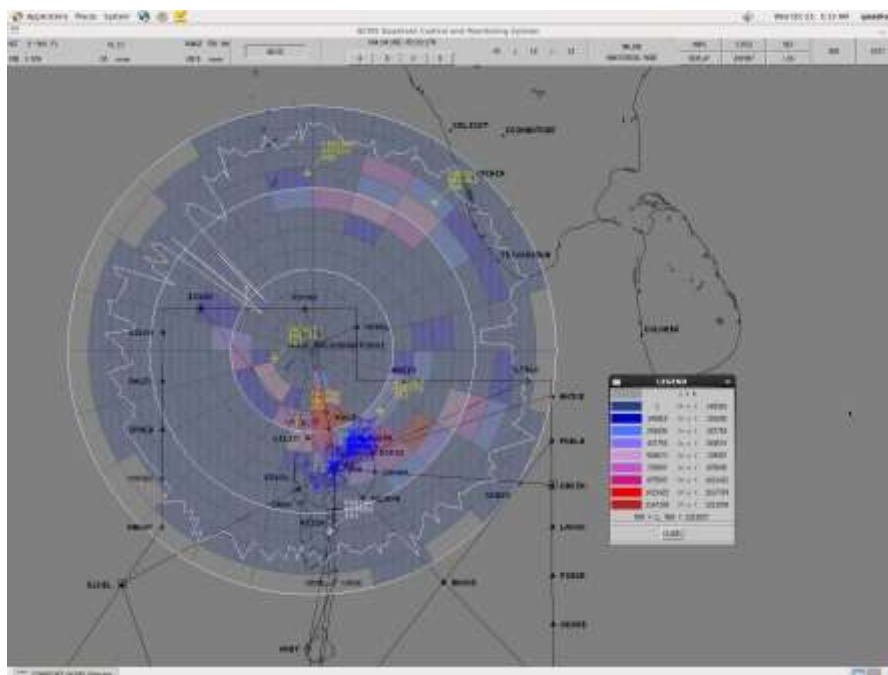


Figure 1: Coverage map of sensor at Kulhudhuffushi island

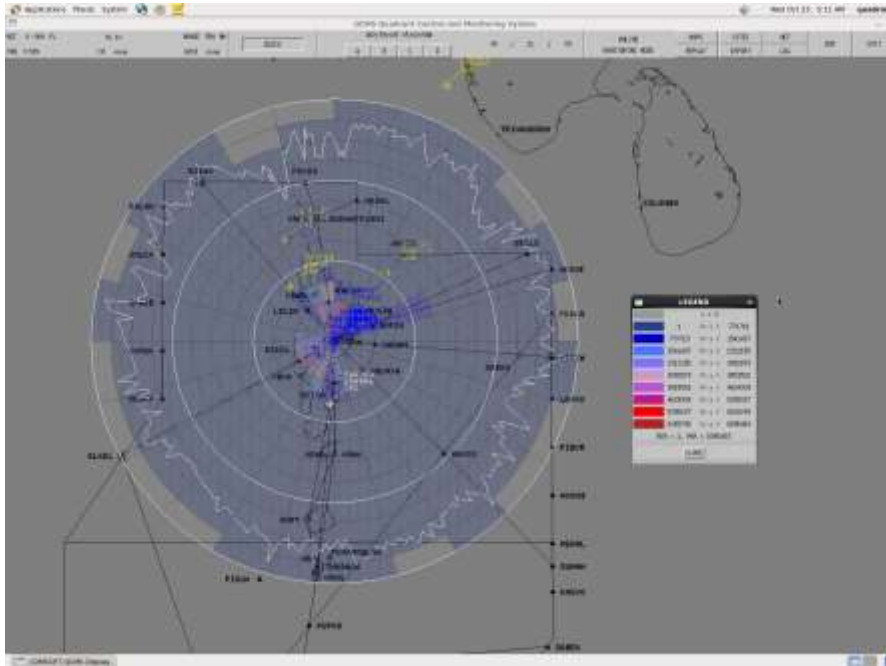


Figure 2: Coverage map of sensor at INIA

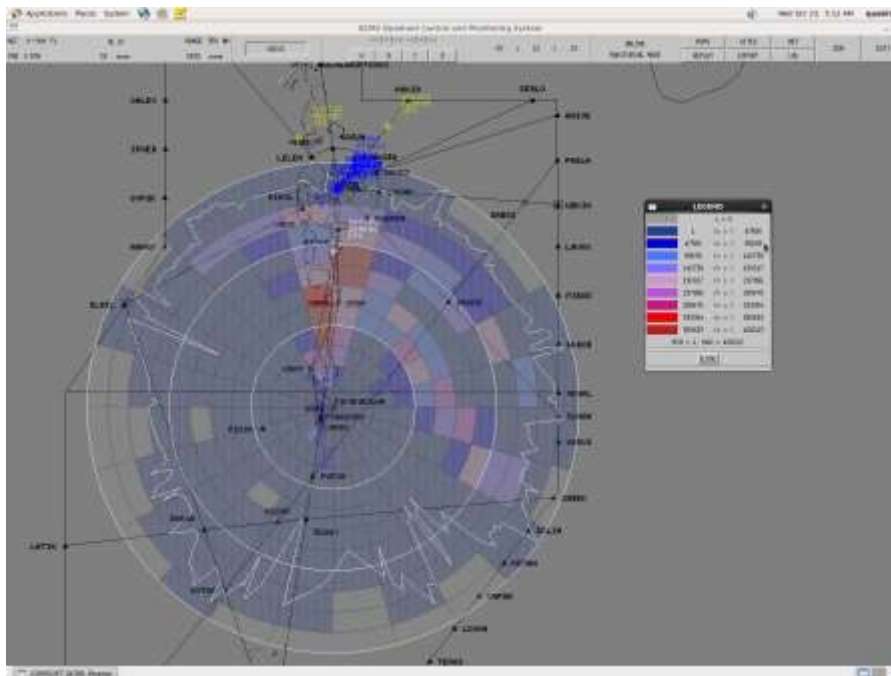


Figure 3: Coverage map of sensor at Fuah Mulah island

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to note the information contained in this paper.
