



International Civil Aviation Organization

**FIFTEENH MEETING OF THE ADS-B STUDY AND IMPLEMENTATION
TASK FORCE (ADS-B SITF/15)**

Bangkok, Thailand, 18 - 20 April 2016

**Agenda Item 4: Review States' activities and interregional issues on implementation of
ADS-B and multilateralism**

ADS-B IMPLEMENTATION IN THE MALDIVES

(Presented by Maldives)

SUMMARY

This paper presents information on the efforts by Maldives to implement ADS-B for the provision of Air Traffic Services in Male FIR.

1. INTRODUCTION

1.1 In November 2012, 4 ADS-B stations (2 at Male' Ibrahim Nasir Intl Airport, 1 at Kulhudhuffushi Island in the North and 1 at Fuah Mulah Island in the south) were installed to enhance surveillance capability within Male FIR. Since then, ADS-B has been integrated with the ATM system; and is now available for use, covering up to 90% of Male FIR above FL290 (29,000 feet)

1.2 On 7th February 2016, Maldives started using ADS-B to enhance ATS surveillance capability in Male FIR.

1.3 At this stage, the carriage of ADS-B equipment is NOT mandatory. The provision of ATS using ADS-B is for capable aircraft. Radar remains the primary surveillance tool within 200NM from Male International Airport.

2. DISCUSSION

Aircraft Equipage for ADS-B Out

2.1 Maldives has not yet decided on a date to make the carriage of ADS-B Out mandatory.

2.2 However, IFR aircraft intending to use ADS-B Out in Male FIR are required to be certified as meeting:

- a) EASA AMC 20-24, or
- b) the equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia; and

2.3 If an IFR aircraft carries an ADS-B transmitting equipage which does not comply with the requirements of paragraph 2.2, the equipment shall be:

- a) Deactivated ; or
- b) Set to transmit only a value of zero for the Navigation Uncertainty Category (NUC_P) or Navigation Integrity Category (NIC).

Airworthiness approval for aircraft registered in Maldives

2.3 It has been agreed among the stakeholder in Maldives to complete the airworthiness approval for all locally registered aircraft already equipped with ADS-B by 30th December 2016

2.4 For aircraft which require retrofitting of ADS-B Out equipment, the local operators have agreed to obtain airworthiness approval for at least one aircraft every year until the process is complete.

VFR aircraft equipped with ADS-B

2.5 There are 51 seaplanes (Twin Otter aircraft with floats) conducting commercial air transport between Male International airport and resort islands. These aircraft have ADS-B out functionality combined with GPS to give highly accurate positional information.

2.6 Although there is no requirement for the installation of GPS equipment suitable for ADS-B in the APAC region, Maldives has decided to certify existing fleet of seaplanes for operation within control airspace before the end of 2016.

2.7 EASA AMC 20-24 will be the guideline, although some exemptions will be considered

3. ACTION REQUIRED BY THE MEETING

3.1 The meeting is invited to note the information contained in this papers; and

3.2 The meeting is invited to note that Maldives seeks support from ICAO and APAC States with significant experience in implementing ADS-B
