



International Civil Aviation Organization

THE THIRD MEETING OF ADS-B STUDY AND IMPLEMENTATION TASK FORCE (ADS-B TF/3)

Bangkok, Thailand, 23 – 25 March 2005.

Agenda Item 4: Review States' activities on trials and demonstration of ADS-B

ADS-B UPDATE FROM INDONESIA

(Provided by Indonesia)

SUMMARY

This information paper presents results of the ADS-B update program in Indonesia.

1. Introduction

1.1 To extend the surveillance coverage within Indonesian airspace, in the Near-Term DGAC of Indonesia desires to install ADS-B ground station for use as complementary surveillance tool (PSR, SSR, and ADS-C). Next in the Long-Term, the purpose is to deploy SSR replacement program and to explore other application (Ground to Air, Ground to Ground, Air to Air).

2. ADS-B Installation

In the near term, the installation would be divided into Phase-1 and Phase-2.

2.1. Phase-1

Indonesia planned to install 11 ground stations into 3 stages to extend radar-like coverage and replace the unserviceable radar.

Stage-1: Jayapura, Timika, Merauke and Saumlaki

Stage-2: Ambon, Biak, Sorong and Ternate

Stage-3: Palu, Kupang and Natuna

2.2. Phase-2

In the phase-2, Indonesia planned to install more 9 ground stations as a backup for the old SSR station which is facing their end-of-life design.

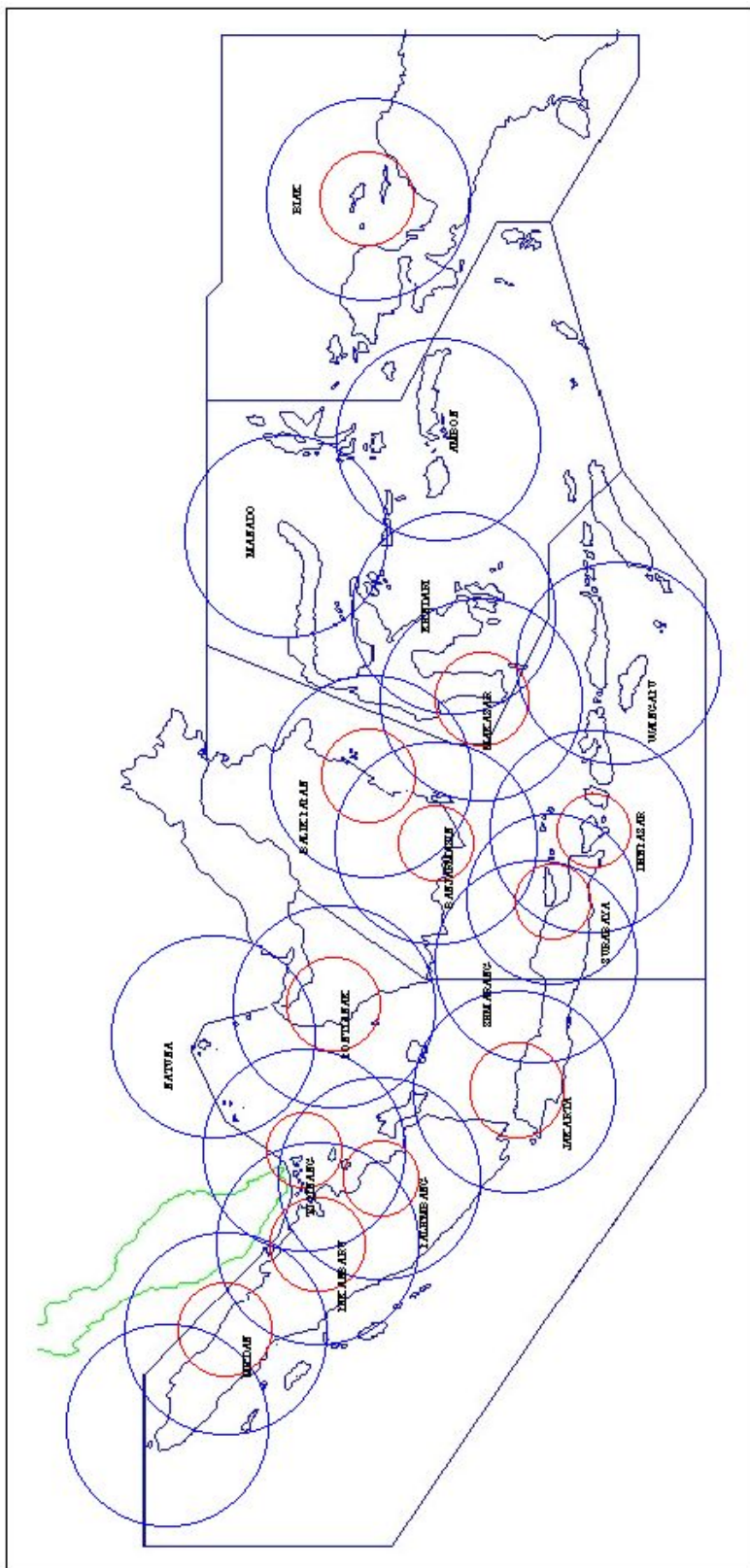
Nr	SSR Location	Inst.Yr.
1	Semarang	1981
2	Tanjung Pinang	1981
3	Palembang	1981
4	Medan	1981
5	Jakarta Int'l	1985
6	Makassar	1986
7	Pekanbaru	1986
8	Banjarmasin	1987
9	Surabaya	1988

3. ATC System capabilities

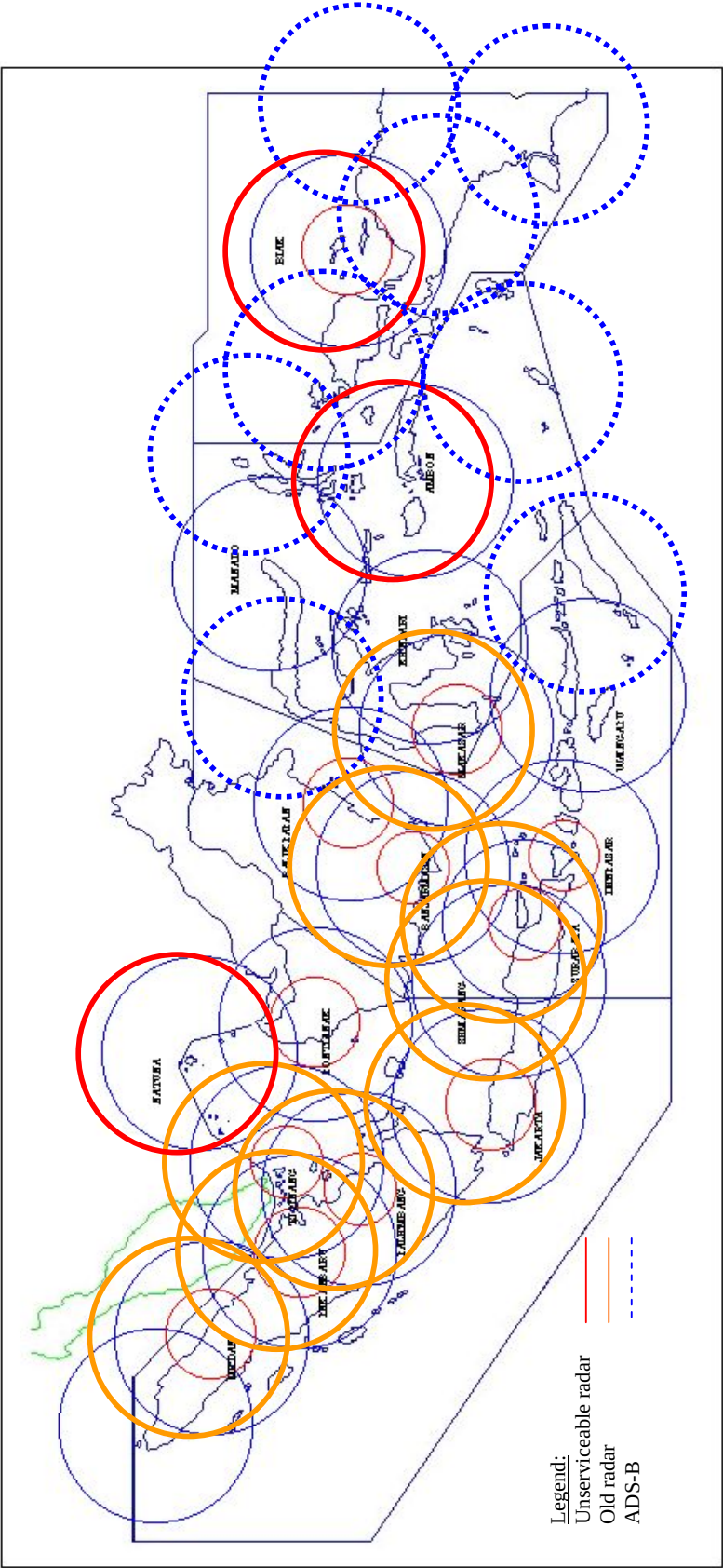
3.1 The Makassar Automation Air Traffic System has capability to process the ADS data.

4. Action

4.1 The meeting is invited to note the information in this paper.



Current theoretical radar coverage



Theoretical ADS-B coverage