



ICAO

International Civil Aviation Organization

Third Meeting of the Bay of Bengal Traffic Flow Review Group (BOBTFRG/3)

Video Teleconference, 14 – 15 December 2021

Agenda Item 3: Updates from States on the Implementation of Improved Horizontal Separation Standards

**INDONESIA COMMUNICATIONS, NAVIGATION AND SURVEILLANCE (CNS)
CAPABILITIES OVER BANDA ACEH**

(Presented by Indonesia)

SUMMARY

This paper describes Indonesia's communication, navigation, and surveillance capabilities over Banda Aceh to collaborate coordination over the portion of airspace and also to describe mitigation the Hotspot A2 between Chennai FIR and Kuala Lumpur FIR.

1. INTRODUCTION

1.1 Following up SAIOACG Task List on Action Item 10/1 to engage in three-party discussion between India, Indonesia, and Malaysia to support the mitigating of LHDs at Chennai – Kuala Lumpur interface (Hot Spot A2), Indonesia describes its CNS capability over that area.

1.2 This paper also reminds the meeting of the SCSTFRG/5 working paper (WP07) regarding the provision of air traffic management over high seas, which was jointly presented by Malaysia and Thailand.

1.3 The paper mentioned above presents the case for the responsibility to provide air traffic management services over international waters to be delegated to adjacent coastal states that offer better surveillance and communications capabilities.

2. DISCUSSION

Communication Capabilities over Bandar Aceh

2.1 Jakarta ACC Upper Banda Aceh is the sector providing air traffic services on the south of Hot Spot A2 area. Jakarta Upper Banda Aceh has a primary frequency on 128.3 MHz and a secondary on 132.2 MHz with coverage up to 300 NM.

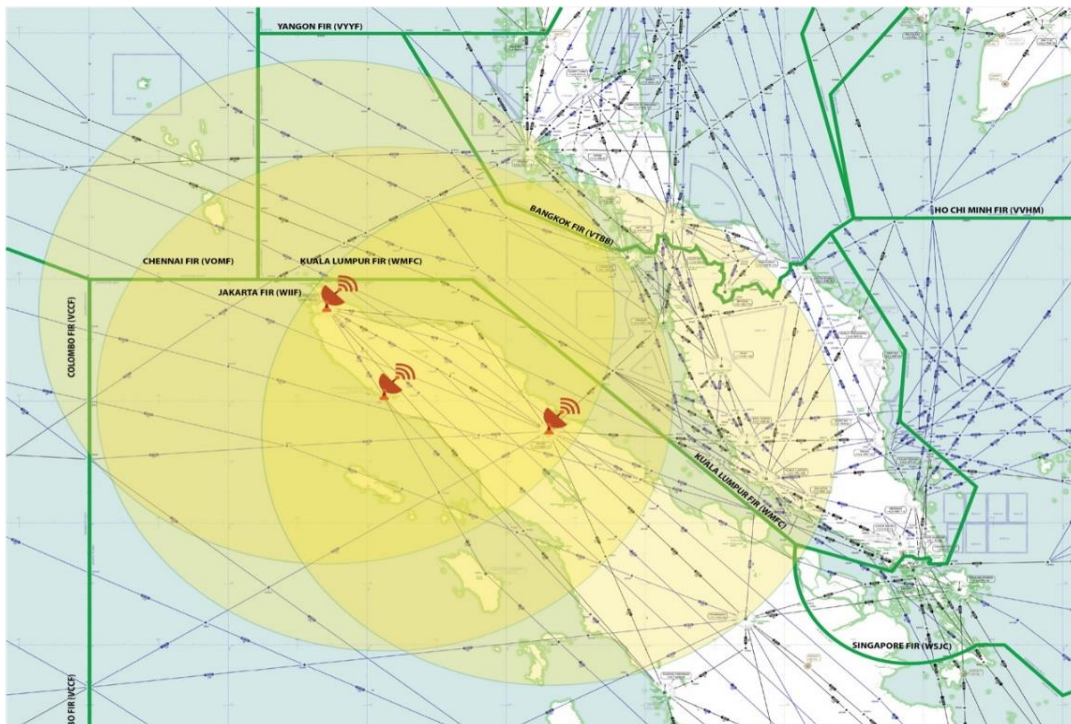


Figure 1. VHF-ER at Banda Aceh, Meulaboh & MDN

Surveillance Capabilities over Bandar Aceh

2.2 Jakarta ACC Upper Banda Aceh is covered by MSSR mode S located in Banda Aceh on coordinate 053230.5N 0953025.3E with coverage up to 250 NM.

2.3 Jakarta upper Banda Aceh also covered by ADS B. ADS-B Ground Station within Jakarta FIR located in Aceh with coverage up to 250 NM on coordinate 053229.5N 0953002.6E.

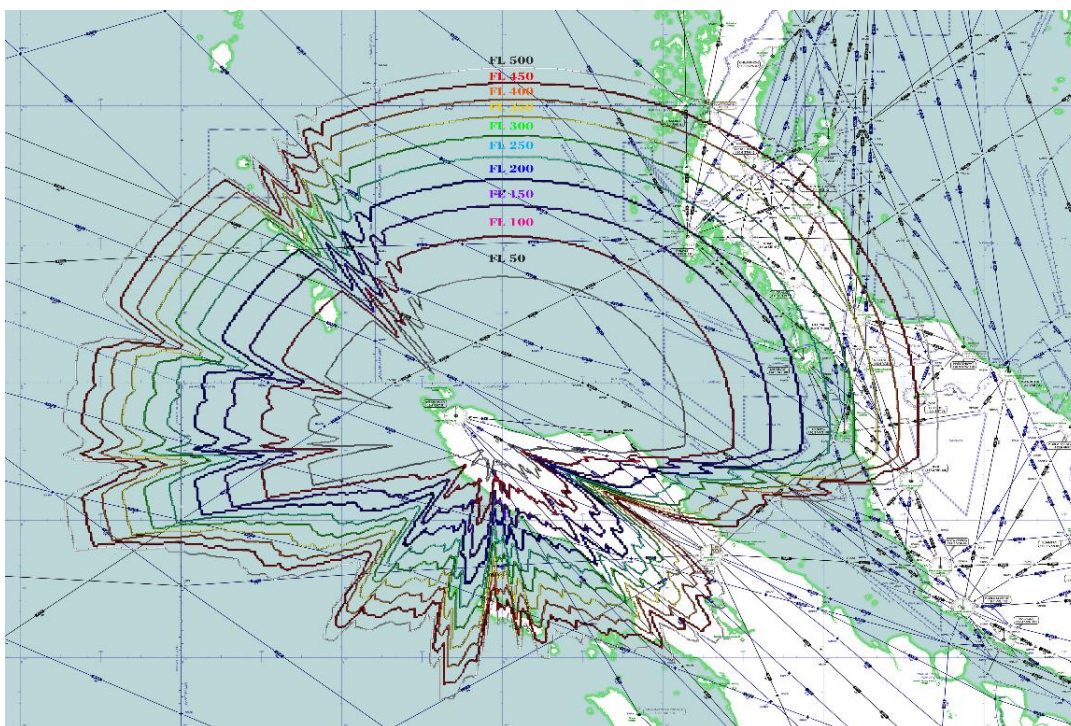


Figure 2. ADS-B GS in Banda Aceh

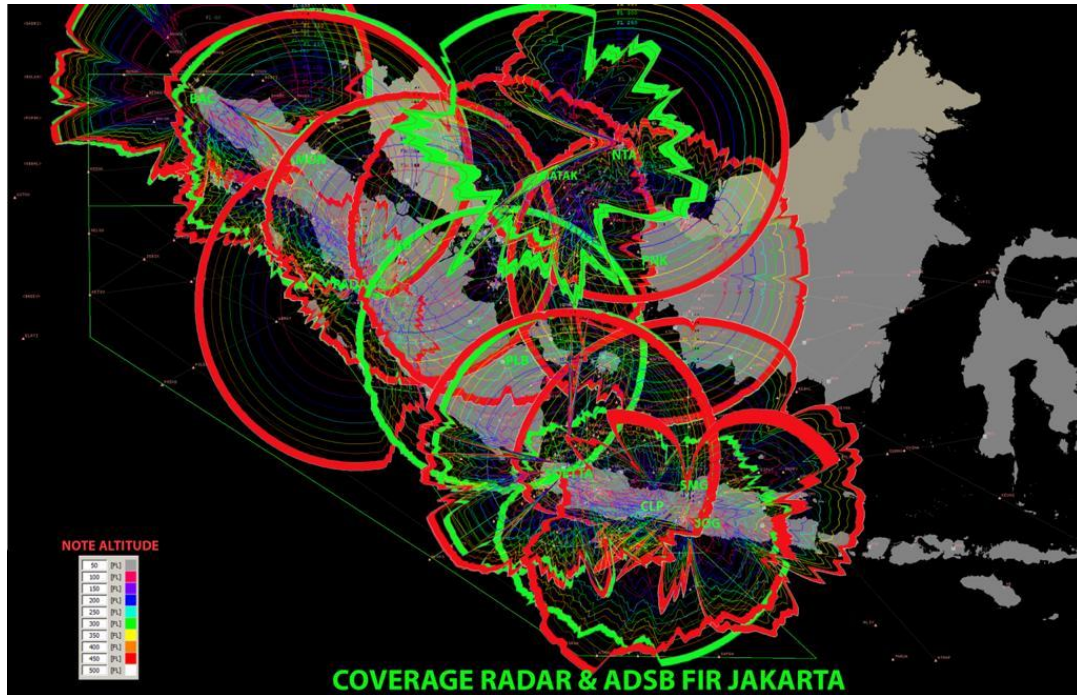


Figure 3. MSSR (Green) and ADS-B GS (Red) Coverage over Jakarta FIR

Future Enhancement on Surveillance Capabilities (Near Bay of Bengal)

2.4 Indonesia is currently installing ADS-B ground station in the islands of Nias and Lasikin that would enhance future surveillance capabilities over the southwest part of Jakarta ACC to provide better air traffic services for the traffics on ATS route M300, P570, P576, L896, M766, L774, N628, & L879.

2.5 The facilities as mentioned above are expected to be ready following the timeline below:

ADS-B Ground Station Installment	Performed in August 2021
Monitoring and Safety Assessment	September to December 2021
Implementation	First Quarter year 2022

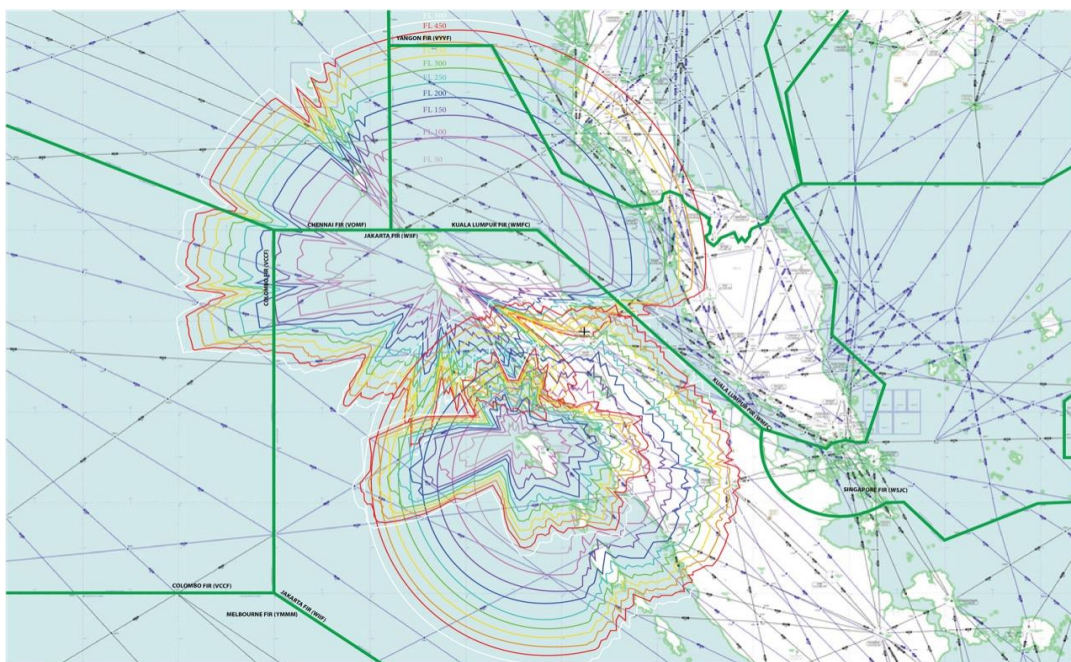


Figure 4. ADSB-B Coverage Prediction di Bandar Aceh, Medan, Lasikin & Nias

2.6 Indonesia is currently implementing VHF extended range over Nias, Padang, and Bengkulu for Indian Ocean Sector Communication facilities to enhance communication capabilities over the southwest part of Jakarta ACC to provide better air traffic services for the traffics on ATS route M300, P570, P576, L896, M766, L774, N628, & L879.

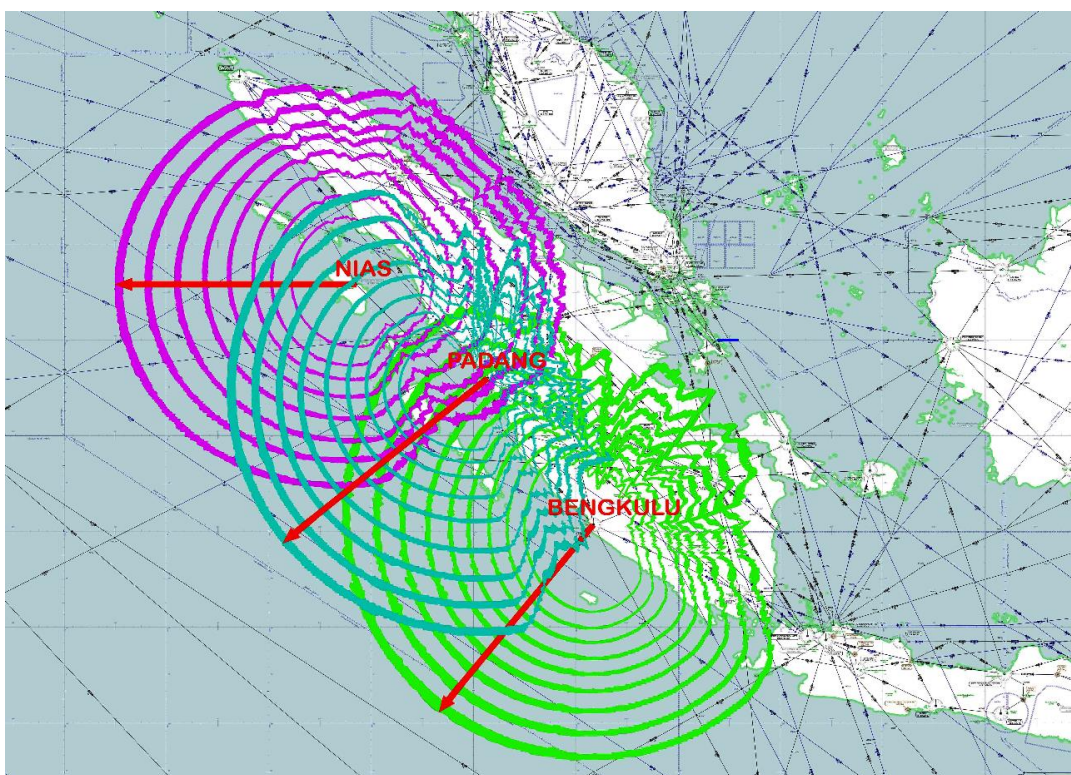


Figure 4. VHF-ER coverage prediction at Nias, Padang & Bengkulu

Mitigation Plan proposed for Hot Spot A2

2.7 As a coastal adjacent ACC with communication, navigation, and surveillance facilities that cover the Hot Spot A2 area, Indonesia would like to propose more efficient services that would enable the industry to reap benefits from what is available today within the area and could be effectively implemented as soon as possible.

2.8 Indonesia's proposals are as follows:

Option 1: Tactically delegate the Hot Spot A2 to Jakarta ACC Banda Aceh Sector and conduct a trilateral meeting to discuss strategic coordination, TCP, amendment of Letter of Coordination Agreement (LOCA), and any other operational or important matters.

Option 2: Permanently delegated the airspace portion around Hot Spot A2 area as part of Jakarta ACC Banda Aceh Sector expansion area. The delegates area would remain as part of Kuala Lumpur FIR.

2.9 At present, Indonesia refrains from conducting surveillance data sharing due to certain reasons and expecting the proposals above should be followed up with bilateral and/or trilateral meeting to discuss any issues as its generated from the services provided.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) encourage related parties to consider the proposals, and
- c) discuss any relevant matters as appropriate.

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