

International Civil Aviation Organization



**THIRTEENTH MEETING OF THE SOUTH EAST ASIA
AND BAY OF BENGAL SUB-REGIONAL ADS-B
IMPLEMENTATION WORKING GROUP
(SEA/BOB ADS-B WG/13)**



Colombo, Sri Lanka, 14 – 16 November 2017

Agenda Item 3: Review implementation and co-ordination activities and sub-regional implementation plans

UPDATE ON ADS-B PROJECT IN MALAYSIA

(Presented by Malaysia)

SUMMARY

This paper presents update on the progress of latest activities of ADS-B project in KL FIR.

1. Introduction

1.1 Part of the scope in the New KL ATCC project that started since year 2016 is the installation of two (2) new ADS-B ground station, in Langkawi and Genting.

1.2 This paper provides the information on the latest activity of ADS-B installation in KL FIR Malaysia.

2. Progress of ADS-B Ground Station Installation in KL FIR

1.3 The installation work of ADS-B station in Genting has run smoothly. The setting up and user acceptance test was completed in December 2016.

1.4 However, the installation work of ADS-B Langkawi has taken longer time to complete due to change on the installation specification. The installation completed in October 2017 and the user acceptance test has successfully completed on early November 2017.

1.5 From on the user acceptance test, the performance assessment of overall ADS-B ground station network composing the both ground stations for the position update period of 4 second at 250 NM are shown in **Table 1** below:

ADS-B Site	Expected PD [%]	Result PD [%]
Genting	> 97%	97.62
Langkawi	> 97%	99.08

Table 1: Overall performance requirement (0 – 250 NM)

1.6 The recording of ADS-B surveillance data on November 2017 from both stations shown the coverage of more than 250 NM in all direction as shown in **Figure 1**.

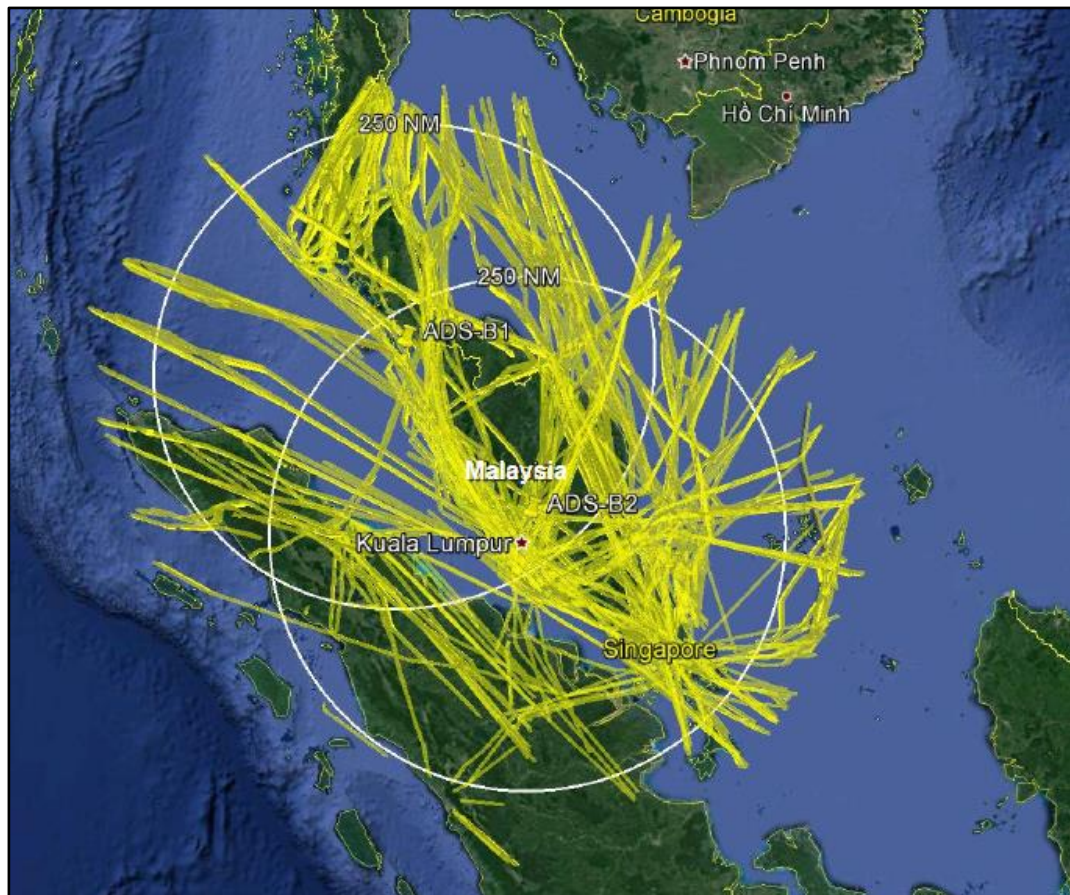


Figure 1: Overall horizontal coverage visualization of ADS-B Genting and Langkawi

1.7 The ADS-B data from both stations will be fused into the multi surveillance fusion system for further observation and test before it can be verify for operational used.

2 Conclusion

2.1 The overall result of the recorded data leads to confirm the full compliance with the User System Requirement. The coverage for each ADS-B ground station is over 250 NM.

2.2 The probability of update of the overall ES-GSN System and for each ADS-B ground station is compliant with the value of better than 97%.

3 Action by the Meeting

3.1 The meeting is invited to:

- a) note the information contained in this paper; and
- b) discuss any relevant matter as appropriate
