



International Civil Aviation Organization
The Third Meeting of South China Sea Major Traffic Flow Review Group
(SCS-MTFRG/3)
Bangkok, Thailand, 25-27 February 2016

Agenda Item 3: Review of the existing MTF route structures in SCS Airspace and identifying priorities

WPAC/SCS 2015 Traffic Sample Data Visualization

(Presented by Monitoring Agency for Asia Region)

SUMMARY

This paper presents a visualization of traffic flows in the Western Pacific and South China Sea (WPAC/SCS) based on 2015 Traffic Sample Data (TSD) to assist SCS-MTFRG in reviewing the existing route structures in the SCS Airspace.

1. INTRODUCTION

1.1 To assist SCS-MTFRG, MAAR, undertook a task in producing a visual presentation of traffic flows in the WPAC/SCS based on annual Traffic Sample Data (TSD). This paper presents an update of traffic visualization based on 2015 TSD.

2. DISCUSSION

Data Limitations

2.1 TSDs from States that are used to generate the charts presented with this paper has the following limitations:

- TSD from each State is generated differently. They may be retrieved from each ANSP's ATM system, prepared manually, processed from FPLs, or submitted in the form of raw FPLs. Therefore, the nature of each TSD may be different from one another. For example, some TSDs are based on actual trajectories while some are based on planned trajectories.
- Some data sets may be missing significant points inside the FIR, and some may be missing a significant portion of flights.

Post-Processing

2.2 In order to produce a better picture of the traffic flows, MAAR also interpolated unreported significant points on the major international routes. However, data from some FIRs with unreported middle points on domestic routes has been left unchanged.

Generated Charts

2.3 **Attachment 1** shows a visual presentation of **traffic flows** in the region. Blue lines represent westbound movements while oranges lines represent eastbound movements. The thickness of the lines was calculated from the volume of traffic in December 2015.

2.4 **Attachment 2** shows the **traffic flows and the number of crossing pairs on the 'same' flight levels** within a 15 minute window during the month of December 2015. The significant points with highest same-level crossing pairs are BKK, VPK, GUKUM, DOTMI, VILAO, and LPB.

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 matters as appropriate.