



International Civil Aviation Organization

ICAO

Eleventh Meeting of the South China Sea Traffic Flow Review Group (SCSTFRG/11)

Bangkok Thailand, 04 – 06 July 2023

Agenda Item 3: Review of the Existing Traffic Flow Route Structures in SCS Airspace and Identifying Priorities

TRAFFIC SAMPLE DATA VISUALIZATION OVER SOUTH CHINA SEA

(Presented by the Monitoring Agency for Asia Region)

SUMMARY

This paper presents the updated visualization of traffic flows in the South East Asia based on Traffic Sample Data (TSD) from 2018 - 2022 to assist the SCSTFRG in reviewing the existing route structures in this area.

1. INTRODUCTION

1.1 To assist SCSTFRG, MAAR undertook a task in producing a visual presentation of traffic flows in the South East Asia area based on annual Traffic Sample Data (TSD) of 2016 and 2017 for the SCSTFRG/5 through SCSTFRG/7. This paper presents an update of traffic visualization based on TSD from 2018 - 2022.

2. DISCUSSION

2.1 Data limitations of TSD, used to generate the chart presented with this paper, are:

- 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.

2.2 **The attachment** to this paper shows visual presentation of traffic flows in the region. Blue lines represent westbound movements while oranges lines represent eastbound movements. The thickness of the lines is calculated from the volume of traffic in the month of December.

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.

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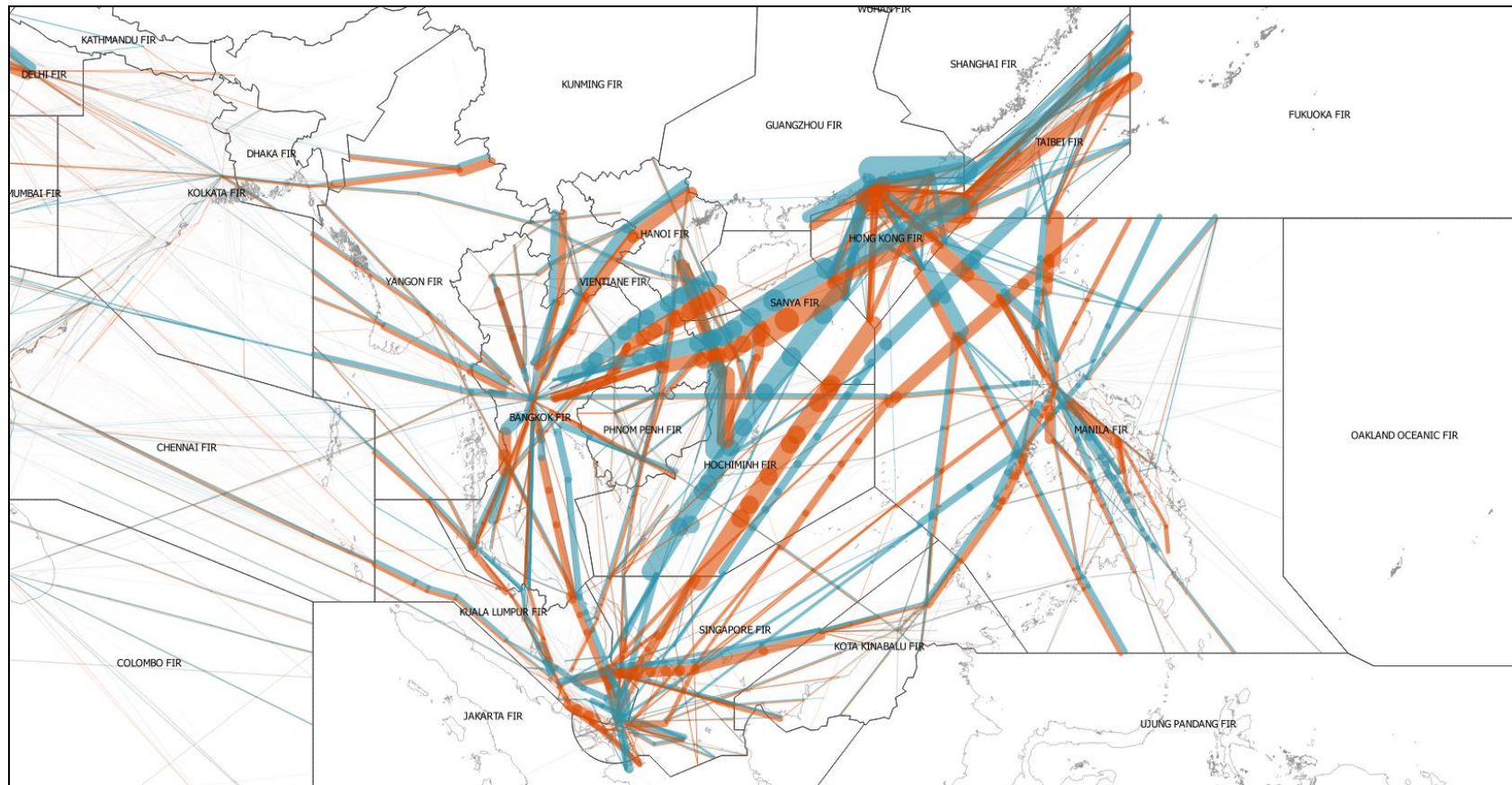


Figure 1: 2018 SEA Traffic Flow from TSD

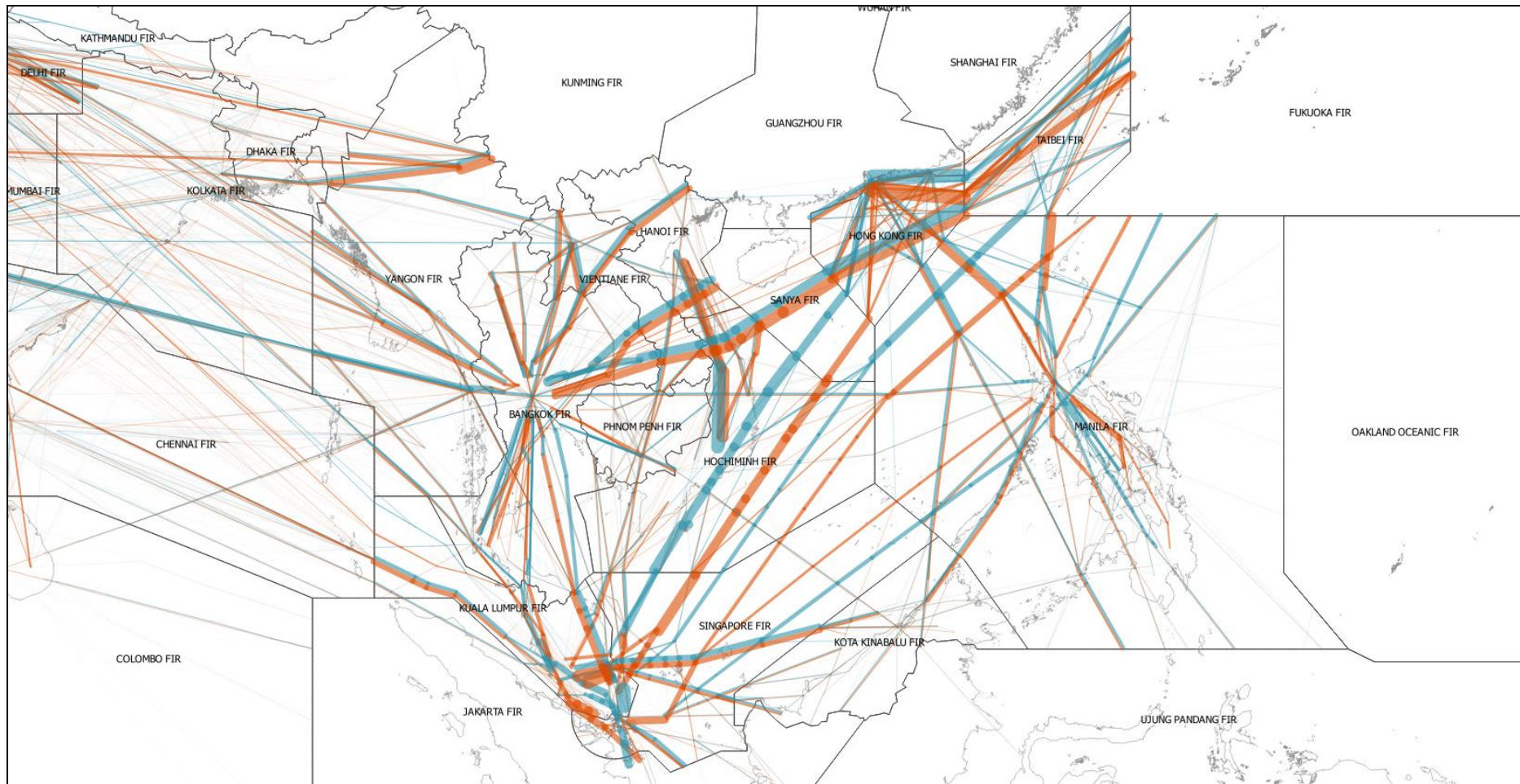


Figure 2: 2019 SEA Traffic Flow from TSD

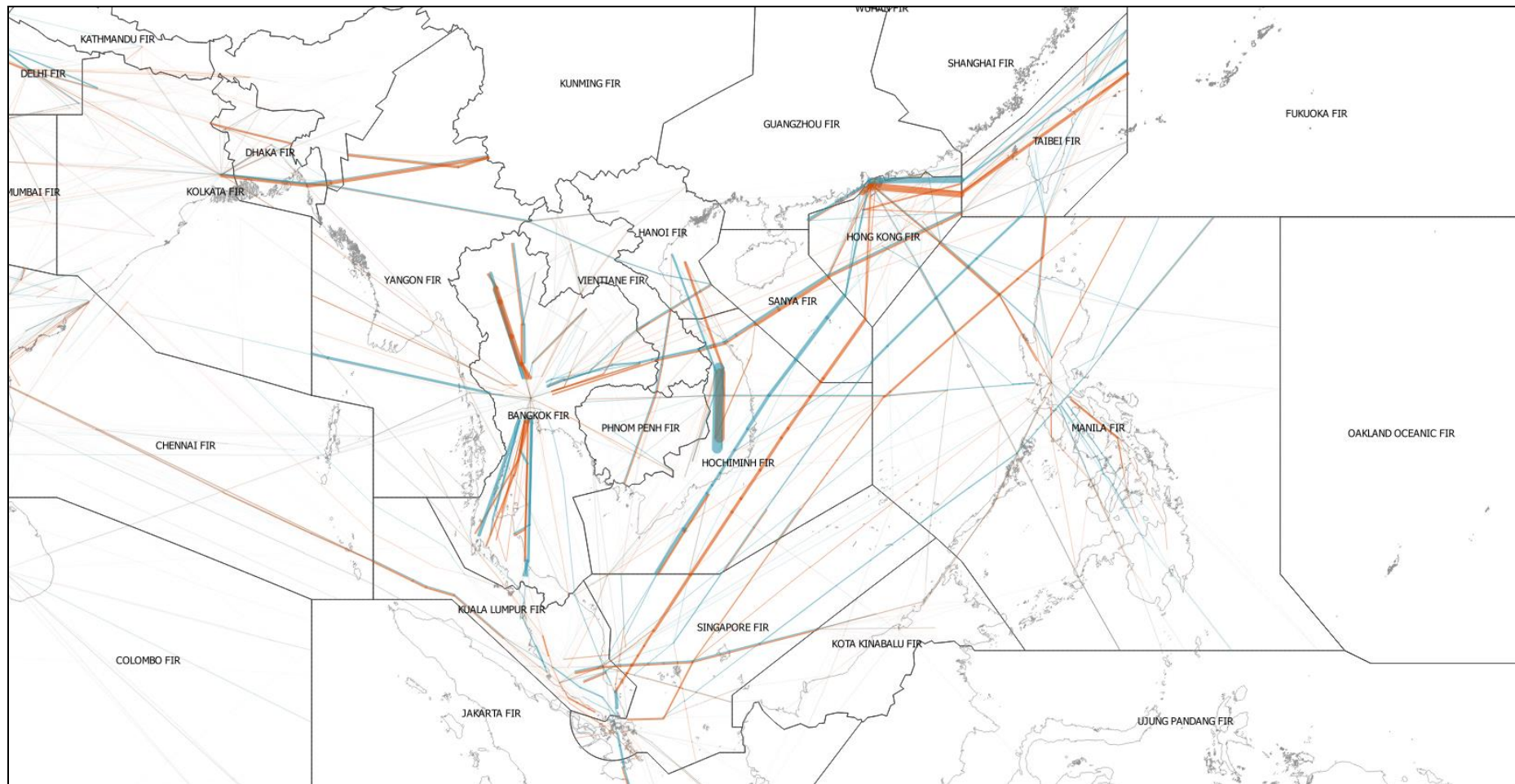


Figure 3: 2020 SEA Traffic Flow from TSD

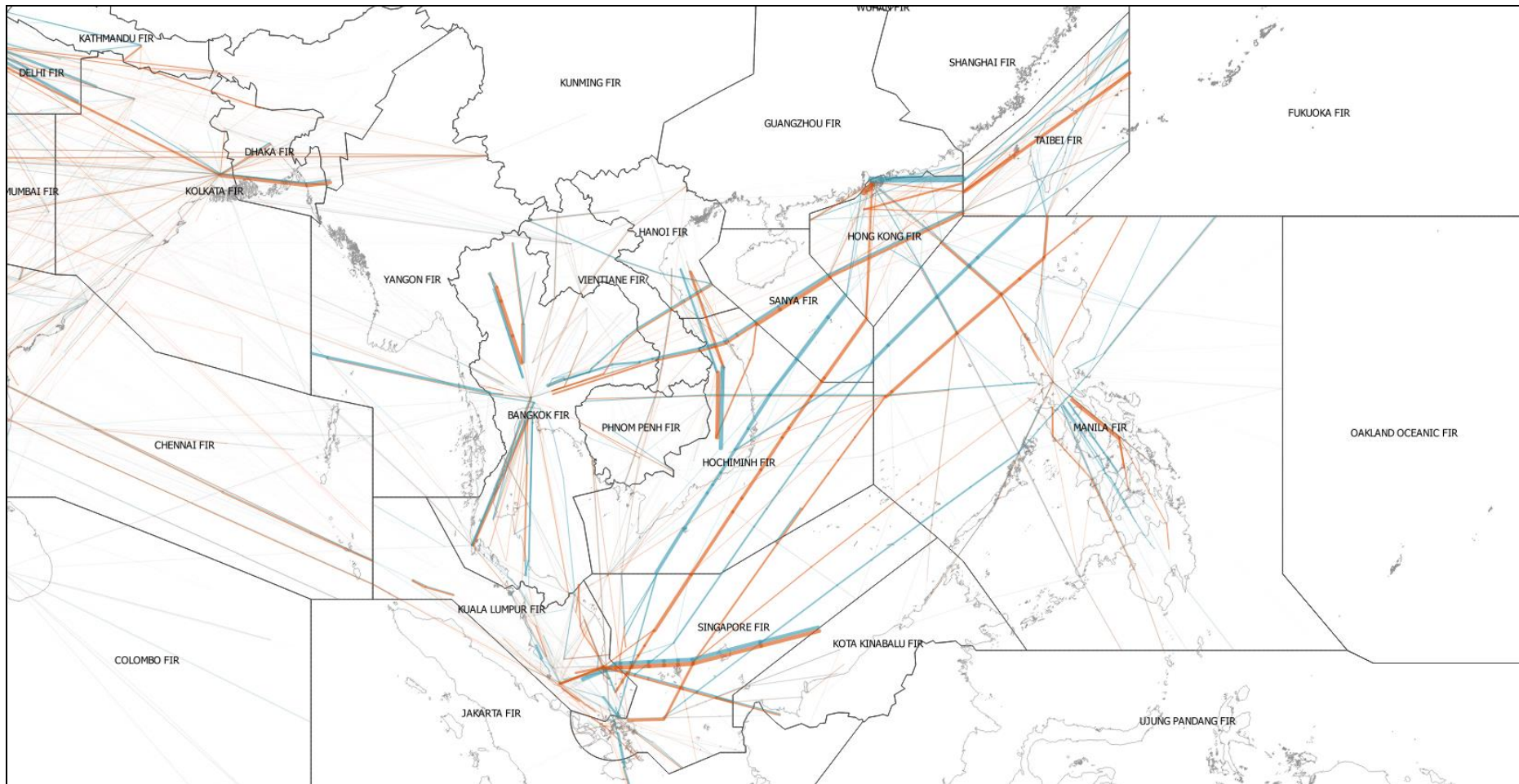


Figure 4: 2021 SEA Traffic Flow from TSD

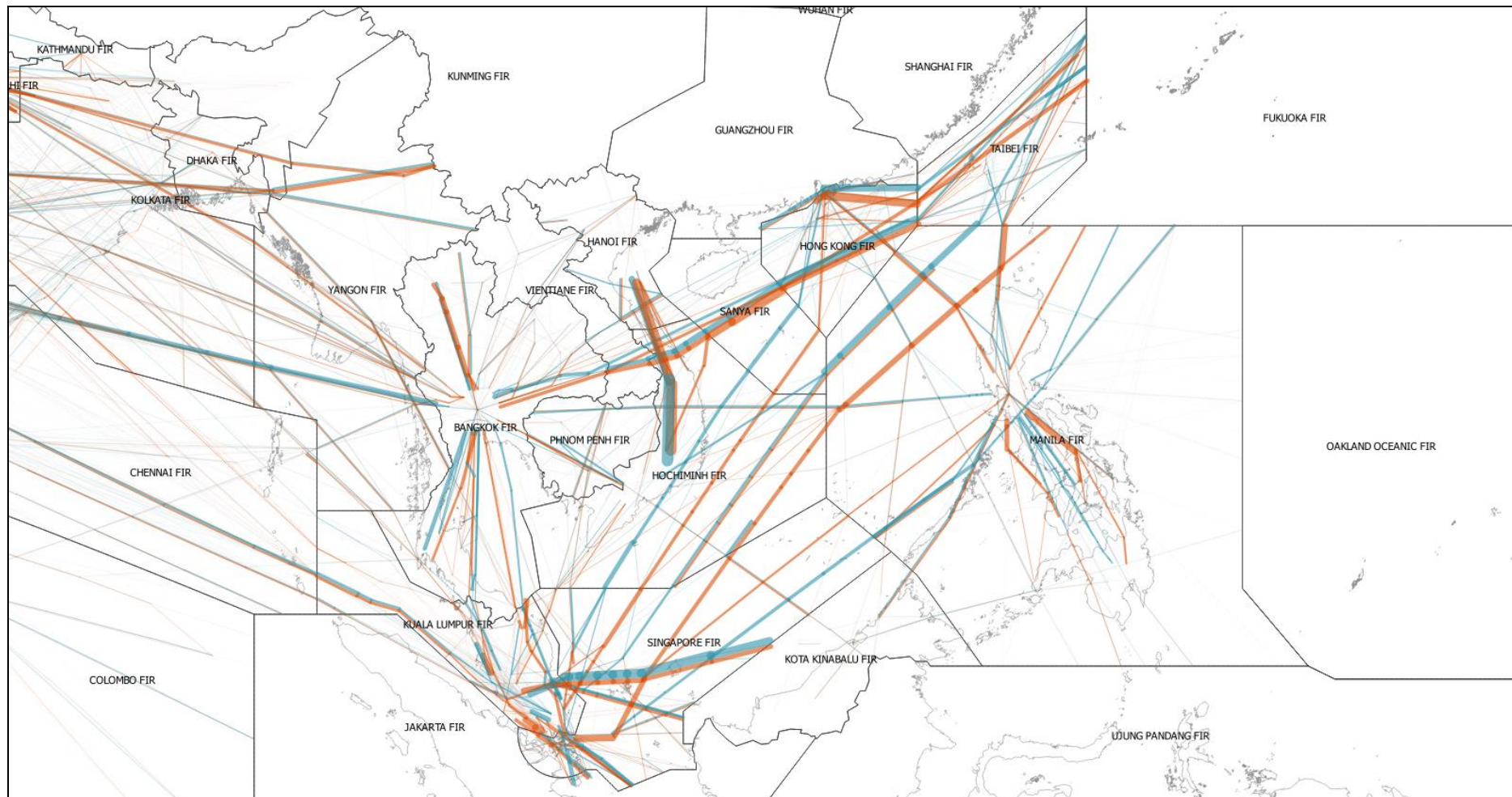


Figure 5: 2022 SEA Traffic Flow from TSD