

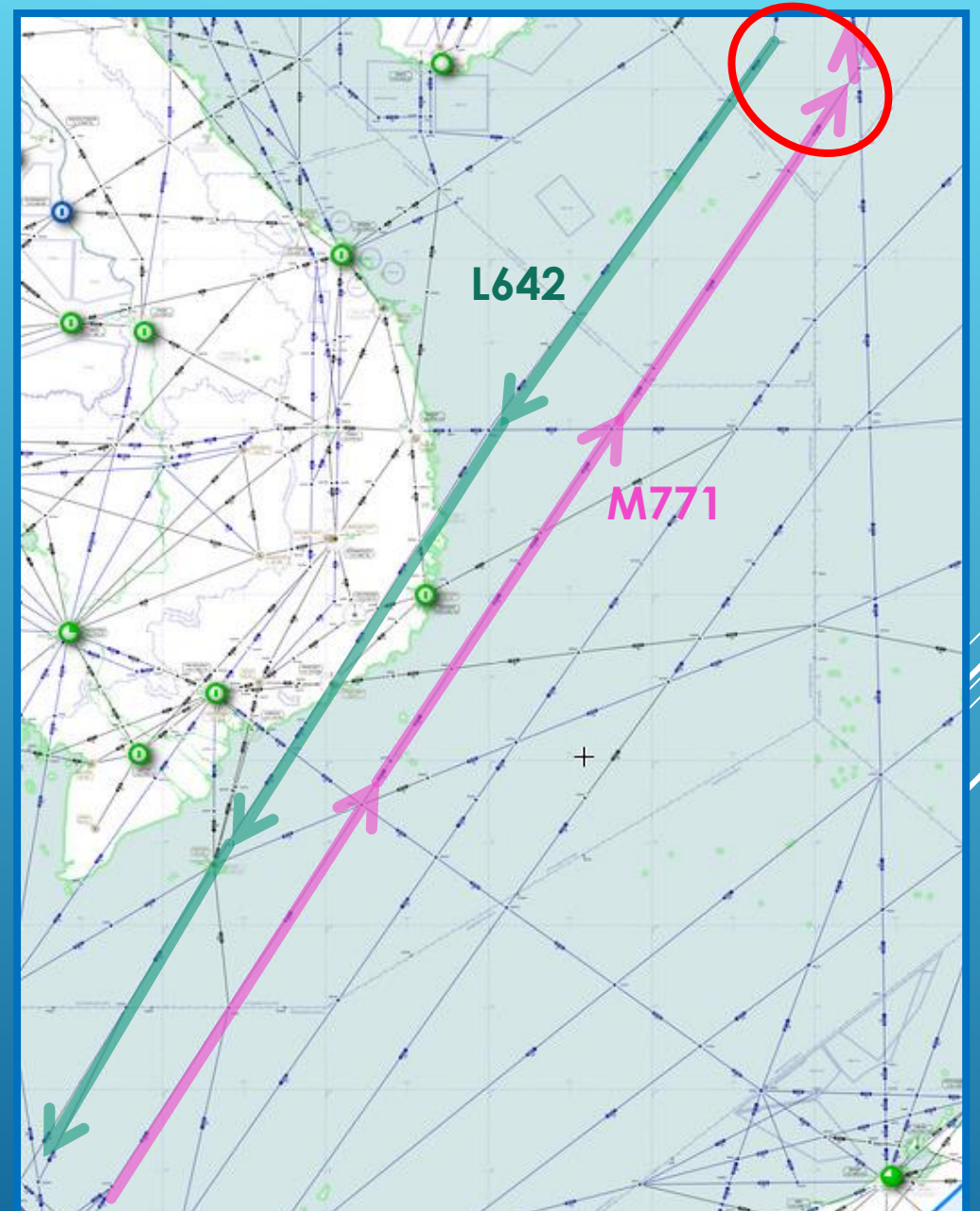
# SCSTFRG/9 WP/02 OPTIMISATION OF THE CAPACITY OF ATS ROUTES L642 AND M771

Presented by Hong Kong China

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# INTRODUCTION

- To optimize the capacity of the route segments of L642 / M771:
  - Establishment of new En-route sector in 2019
  - Deployment of space-based ADS-B to enhance surveillance
- Ready for reduction of longitudinal spacing to 20NM on L642 and M771



# ROUTE CAPACITY ON ATS ROUTES L642 AND M771 IN THE HONG KONG FIR

- ▶ 50NM minimum longitudinal spacing for RNP 10 compliant ACFT
  - ▶ L642 and M771 – RNP 4 routes within HK FIR
  - ▶ FLAS: F310, F320, F350, F360, F390\*, F400
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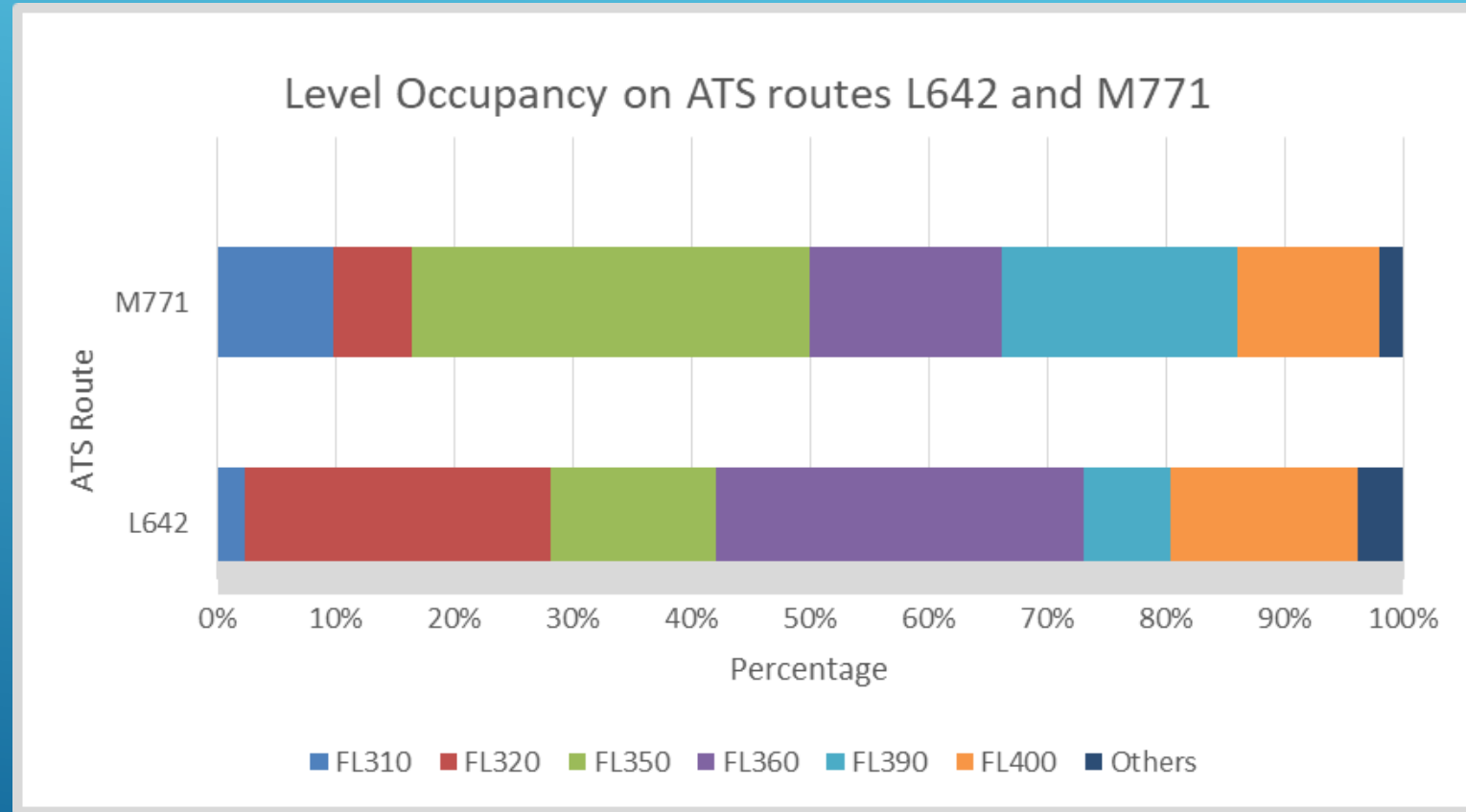
# PRE-COVID AIR TRAFFIC DEMAND ON ATS ROUTES L642 AND M771 IN THE HONG KONG FIR

ATS Route	L642	M771
Route Hourly Capacity (2301-1600UTC)	57	
Route Hourly Capacity (1601 – 2300 UTC)	48	
Maximum hourly movement	14 *	12 **
Percentage of route capacity occupied	24.6%	21.1%
Average Daily Movement	153	128

Traffic Statistics between 4 November and 8 November 2019

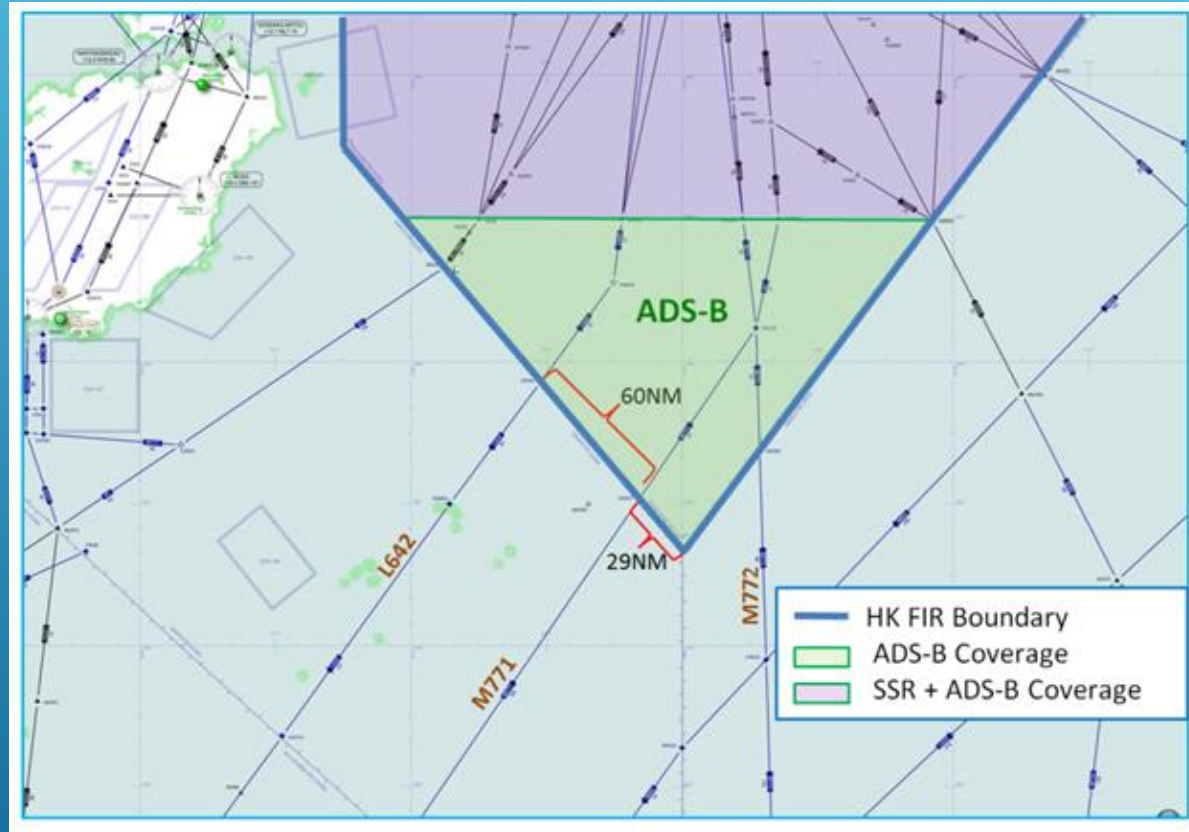
(Note: \*Recorded at 0800-0859Z on 4 Nov; \*\*Recorded at 1200-1259Z on 7 Nov)

# PRE-COVID AIR TRAFFIC DEMAND ON ATS ROUTES L642 AND M771 IN THE HONG KONG FIR



Level Occupancy on ATS routes L642 and M771

# PROPOSAL TO ENHANCE THE CAPACITY ON ATS ROUTES L642 AND M771




Surveillance coverage of ATS routes L642 and M771 in Hong Kong FIR

# PROPOSAL TO ENHANCE THE CAPACITY ON ATS ROUTES L642 AND M771

- Application of 20NM longitudinal spacing is practicable with the use of surveillance separation
- Longitudinal Spacing changes from 50NM to 20NM:
  - Doubled the route capacity
- Collaboration and Coordination among ACCs is essential for successful implementation

# ACTION BY THE MEETING

The meeting is invited to:

- Note the information contained in this paper;
  - Agree on the proposal of enhancing the longitudinal spacing of ATS routes L642 and M771 to 20NM; and
  - Discuss among the concerned ACCs for any relevant matters as appropriate.
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