

October 2023

London Luton Airport Expansion

Planning Inspectorate Scheme Ref: TR020001

Volume 8 Additional Submissions (Examination)
**8.62 Issue Specific Hearing 3 Action 29 Response
Paper - Historical Flight Path Information**

Infrastructure Planning (Examination Procedure) Rules 2010

Application Document Ref: TR020001/APP/8.62



The Planning Act 2008

The Infrastructure Planning (Examination Procedure) Rules 2010

**London Luton Airport Expansion Development Consent
Order 202x**

**8.62 ISSUE SPECIFIC HEARING 3 ACTION 29 RESPONSE PAPER -
HISTORICAL FLIGHT PATH INFORMATION**

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Contents

		Page
1	Introduction	1
2	Westerly operations flightpaths and altitude maps	2
2.1	2017	2
2.2	2018	4
2.3	2019	6
2.4	2020	8
2.5	2021	10
2.6	2022	12
2.7	2023	14
3	Easterly operations flightpath and altitude maps	15
3.1	2017	15
3.2	2018	17
3.3	2019	19
3.4	2020	21
3.5	2021	23
3.6	2022	25
3.7	2023	27

Table of Figures

Figure 2-1: 2 nd Quarter 2017 Altitude Map Westerly Operations.....	2
Figure 2-2: 3 rd Quarter 2017 Altitude Map Westerly Operations	3
Figure 2-3: 4 th Quarter 2017 Altitude Map Westerly Operations	3
Figure 2-4: 1 st Quarter 2018 Altitude Map Westerly Operations	4
Figure 2-5: 2 nd Quarter 2018 Altitude Map Westerly Operations.....	4
Figure 2-6: 3 rd Quarter 2018 Altitude Map Westerly Operations	5
Figure 2-7: 4 th Quarter 2018 Altitude Map Westerly Operations	5
Figure 2-8: 1 st Quarter 2019 Altitude Map Westerly Operations	6
Figure 2-9: 2 nd Quarter 2019 Altitude Map Westerly Operations.....	6
Figure 2-10: 3 rd Quarter 2019 Altitude Map Westerly Operations	7
Figure 2-11: 4 th Quarter 2019 Altitude Map Westerly Operations	7
Figure 2-12: 1 st Quarter 2020 Altitude Map Westerly Operations	8
Figure 2-13: 2 nd Quarter 2020 Altitude Map Westerly Operations.....	8
Figure 2-14: 3 rd Quarter 2020 Altitude Map Westerly Operations	9
Figure 2-15: 4 th Quarter 2020 Altitude Map Westerly Operations	9

Figure 2-16: 1 st Quarter 2021 Altitude Map Westerly Operations	10
Figure 2-17: 2 nd Quarter 2021 Altitude Map Westerly Operations.....	10
Figure 2-18: 3 rd Quarter 2021 Altitude Map Westerly Operations	11
Figure 2-19: 4 th Quarter 2021 Altitude Map Westerly Operations	11
Figure 2-20: 1 st Quarter 2022 Altitude Map Westerly Operations	12
Figure 2-21: 2 nd Quarter 2022 Altitude Map Westerly Operations.....	12
Figure 2-22: 3 rd Quarter 2022 Altitude Map Westerly Operations	13
Figure 2-23: 4 th Quarter 2022 Altitude Map Westerly Operations	13
Figure 2-24: 1 st Quarter 2023 Altitude Map Westerly Operations	14
Figure 3-1: 2 nd Quarter 2017 Altitude Map Easterly Operations.....	15
Figure 3-2: 3 rd Quarter 2017 Altitude Map Easterly Operations	16
Figure 3-3: 4 th Quarter 2017 Altitude Map Easterly Operations	16
Figure 3-4: 1 st Quarter 2018 Altitude Map Easterly Operations	17
Figure 3-5: 2 nd Quarter 2018 Altitude Map Easterly Operations.....	17
Figure 3-6: 3 rd Quarter 2018 Altitude Map Easterly Operations	18
Figure 3-7: 4 th Quarter 2018 Altitude Map Easterly Operations	18
Figure 3-8: 1 st Quarter 2019 Altitude Map Easterly Operations	19
Figure 3-9: 2 nd Quarter 2019 Altitude Map Easterly Operations.....	19
Figure 3-10: 3 rd Quarter 2019 Altitude Map Easterly Operations	20
Figure 3-11: 4 th Quarter 2019 Altitude Map Easterly Operations	20
Figure 3-12: 1 st Quarter 2020 Altitude Map Easterly Operations	21
Figure 3-13: 2 nd Quarter 2020 Altitude Map Easterly Operations.....	21
Figure 3-14: 3 rd Quarter 2020 Altitude Map Easterly Operations	22
Figure 3-15: 4 th Quarter 2020 Altitude Map Easterly Operations	22
Figure 3-16: 1 st Quarter 2021 Altitude Map Easterly Operations	23
Figure 3-17: 2 nd Quarter 2021 Altitude Map Easterly Operations.....	23
Figure 3-18: 3 rd Quarter 2021 Altitude Map Easterly Operations	24
Figure 3-19: 4 th Quarter 2021 Altitude Map Easterly Operations	24
Figure 3-20: 1 st Quarter 2022 Altitude Map Easterly Operations	25
Figure 3-21: 2 nd Quarter 2022 Altitude Map Easterly Operations.....	25
Figure 3-22: 3 rd Quarter 2022 Altitude Map Easterly Operations	26
Figure 3-23: 4 th Quarter 2022 Altitude Map Easterly Operations	26
Figure 3-24: 1 st Quarter 2023 Altitude Map Easterly Operations	27

1 INTRODUCTION

- 1.1 This document provides a summary of flightpath information, including altitude, in response to action point 29 from the Examining Authority [EV8-008] following Issue Specific Hearing 3 held on 27 September 2023.
- 1.1 As requested by the Examining Authority, publicly available flight path information has been compiled from the airport operator's Quarterly Monitoring Reports which include, from quarter 2 of 2017 onwards, graphical information on flightpaths and altitude. Further information is available in the full Quarterly Monitoring Reports which can be downloaded from the airport operator's website: <https://www.london-luton.co.uk/corporate/community/noise/quarterly-monitoring-report>.
- 1.1 Flightpath and altitude maps that show the departures and arrival paths from the Quarterly Monitoring Reports described above are reproduced in this document for every quarter from the 2nd quarter of 2017 to the 1st quarter of 2023, for easterly and westerly operations. These derive directly from radar information.
- 1.1 These maps show that whilst there is a typical spread of flightpath and altitude across individual flights, the general trend of the spread below 5,000ft is broadly unchanged over time. Above 5,000ft some changes can be observed due to the Swanwick Airspace Improvement Programme - Airspace Deployment 6 (AD6) airspace change that was implemented in February 2022.
- 1.1 On westerly arrivals, aircraft are typically at 3,000 ft at the eastern border of Stevenage, around Walkern, and this remains broadly unchanged, with some aircraft taking a slightly steeper arrival from the 4th quarter of 2021 and not descending to 3,000 ft until closer to the runway, past Stevenage. This is shown in **Error! Reference source not found.** - Figure 2-24.
- 1.1 On westerly departures, aircraft are typically at 3,000 ft at Markyate, and this remains broadly unchanged. This is shown in **Error! Reference source not found.** - Figure 2-24
- 1.1 On easterly arrivals, aircraft are typically at 3,000 ft at Dagnall and Whipsnade from 2017, and this remains broadly unchanged, with some aircraft taking a slightly steeper arrival from the 4th quarter of 2021 and not descending to 3,000 ft until closer to the runway. This is shown in Figure 3-1 - Figure 3-24.
- 1.1 On easterly departures, aircraft are typically at 3,000 ft at St Pauls Walden and Rush Green, and this remains broadly unchanged. This is shown in Figure 3-1 - Figure 3-24.

2 WESTERLY OPERATIONS FLIGHTPATHS AND ALTITUDE MAPS

2.1 2017

Quarter 2

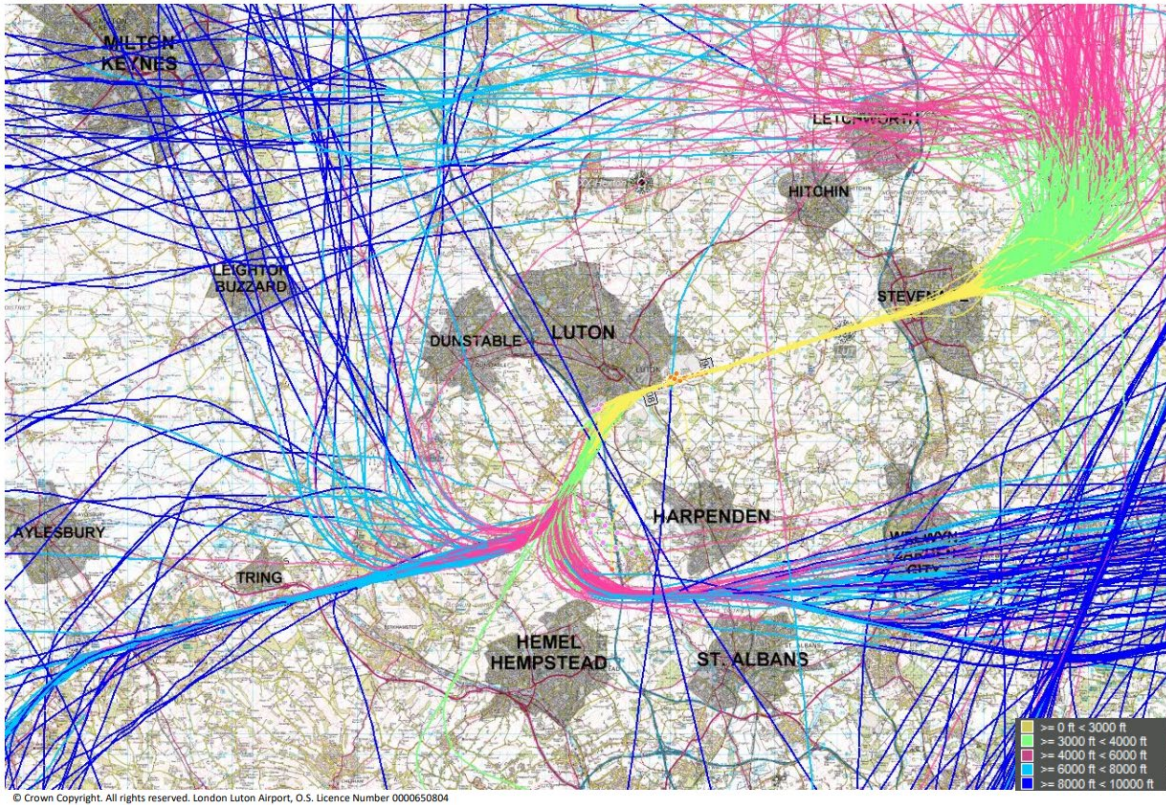


Figure 2-1: 2nd Quarter 2017 Altitude Map Westerly Operations

Quarter 3

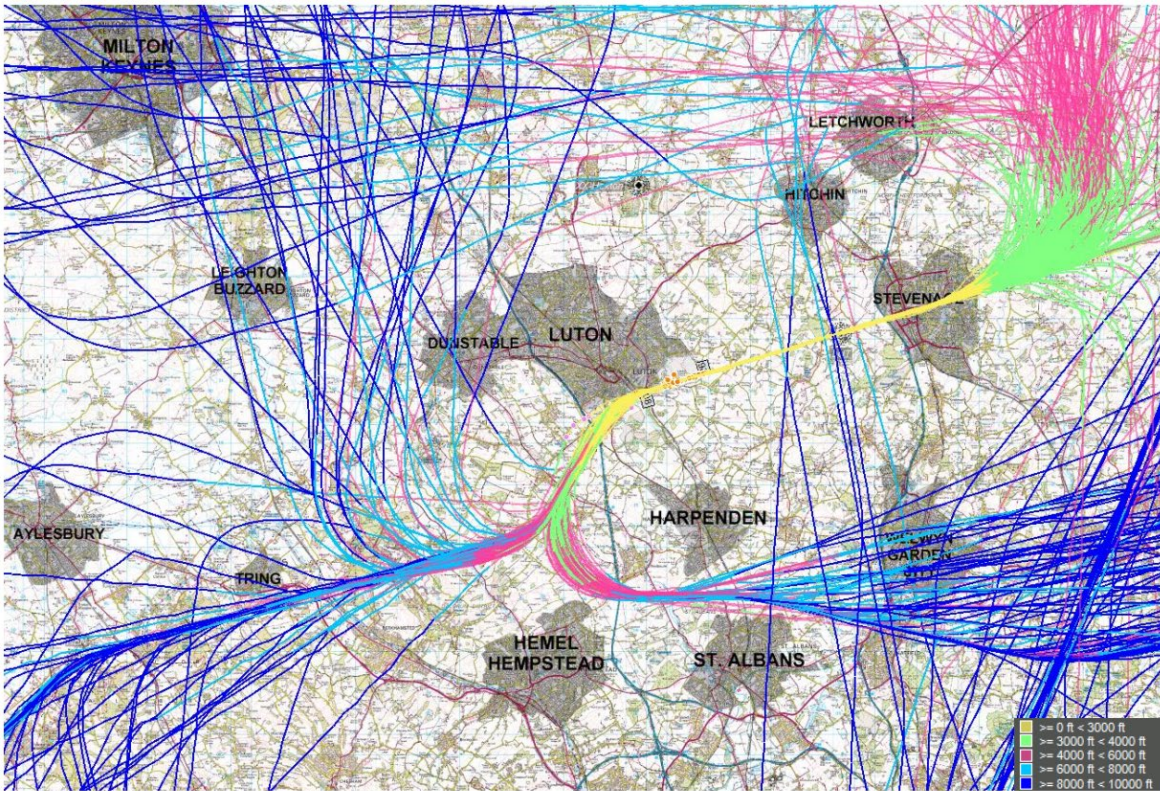


Figure 2-2: 3rd Quarter 2017 Altitude Map Westerly Operations

Quarter 4

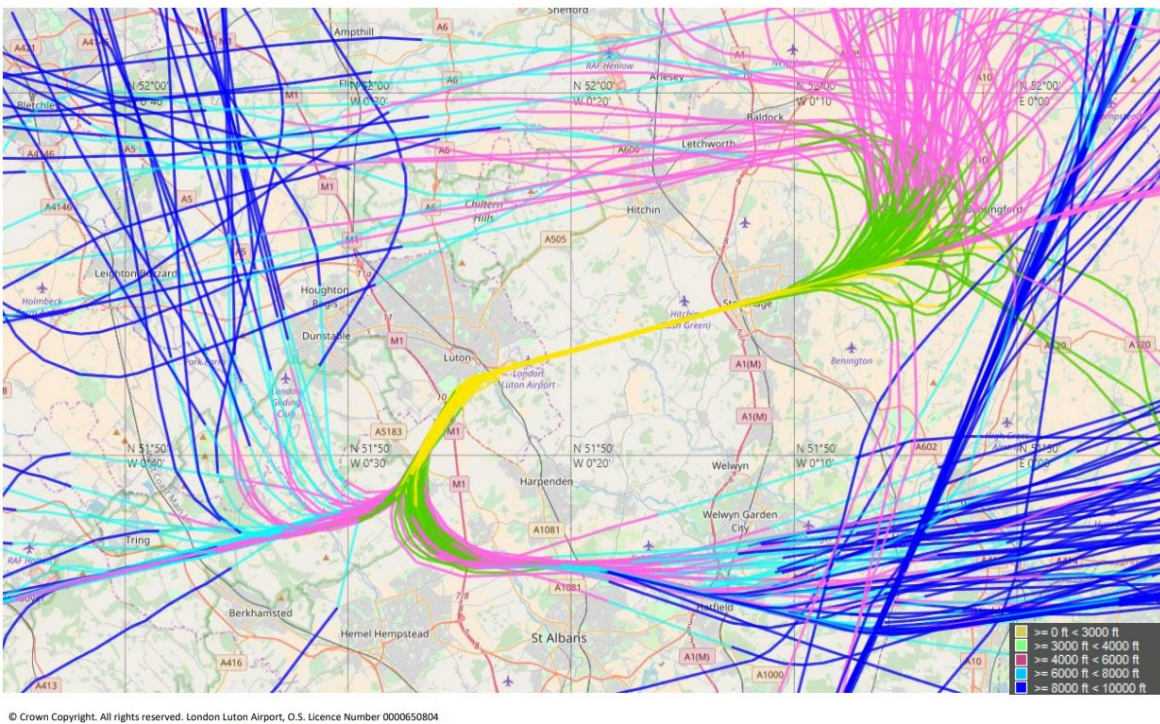


Figure 2-3: 4th Quarter 2017 Altitude Map Westerly Operations

2.2 2018 Quarter 1

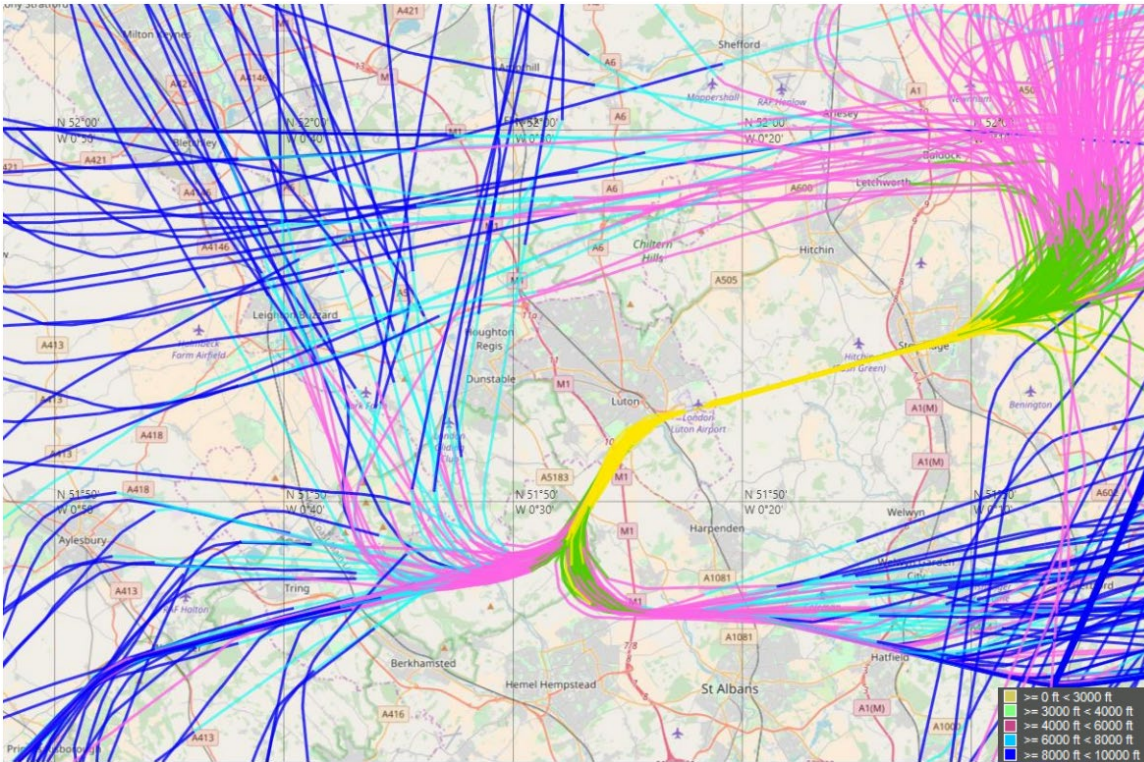


Figure 2-4: 1st Quarter 2018 Altitude Map Westerly Operations

Quarter 2

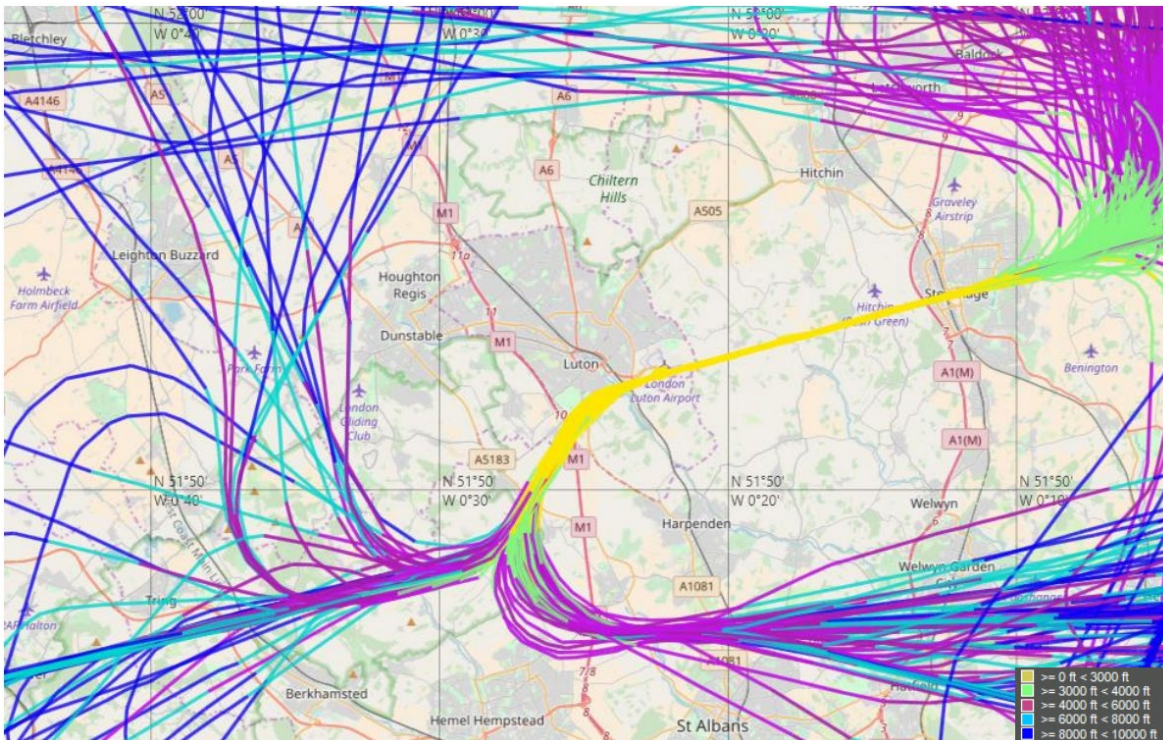


Figure 2-5: 2nd Quarter 2018 Altitude Map Westerly Operations

Quarter 3

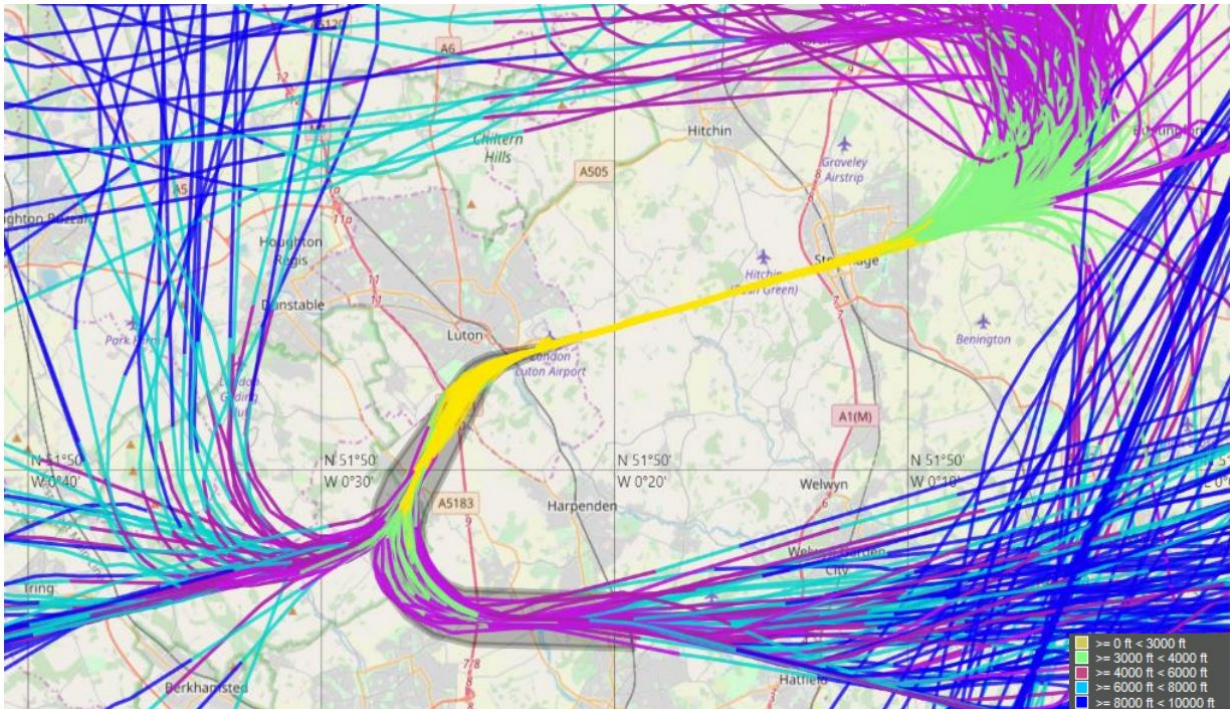


Figure 2-6: 3rd Quarter 2018 Altitude Map Westerly Operations

Quarter 4

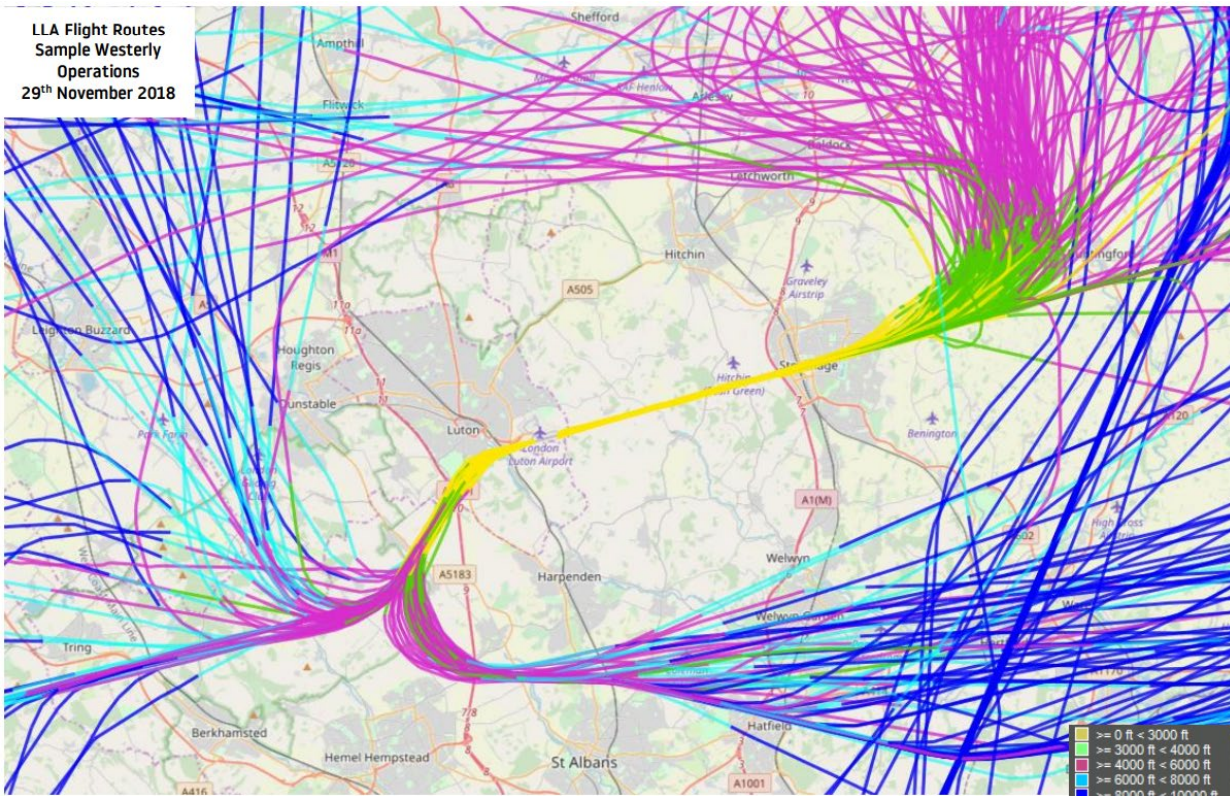


Figure 2-7: 4th Quarter 2018 Altitude Map Westerly Operations

2.3 2019 Quarter 1

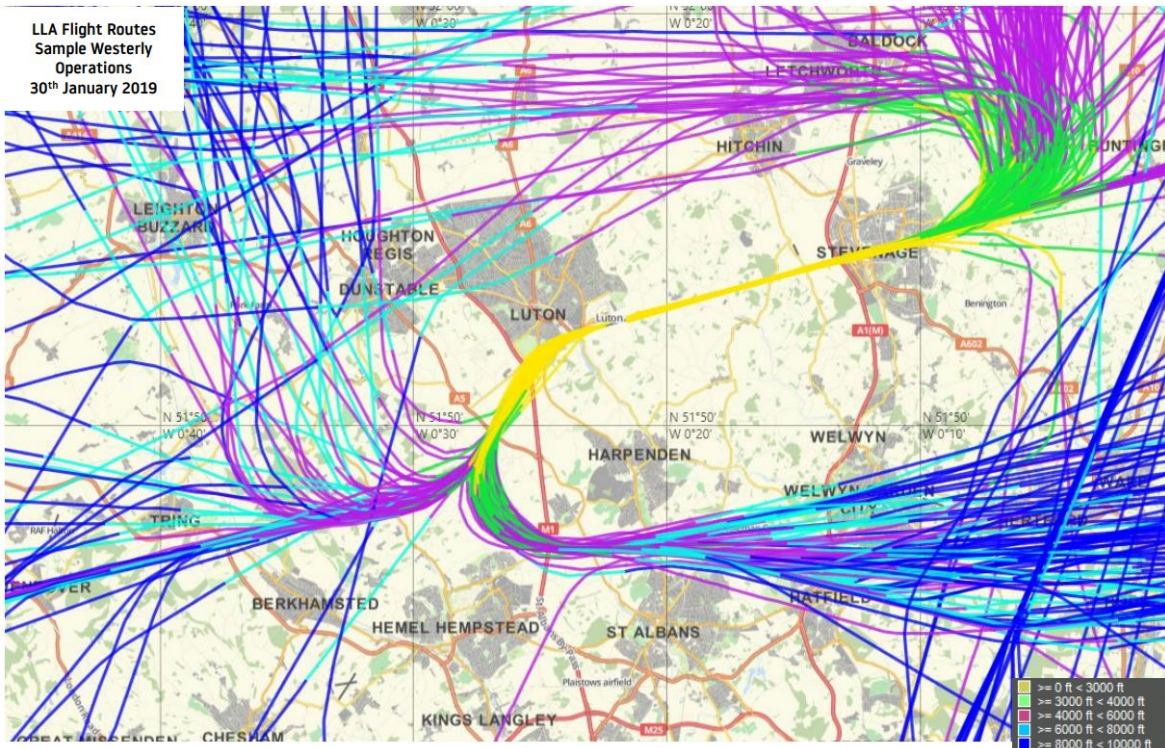


Figure 2-8: 1st Quarter 2019 Altitude Map Westerly Operations

Quarter 2

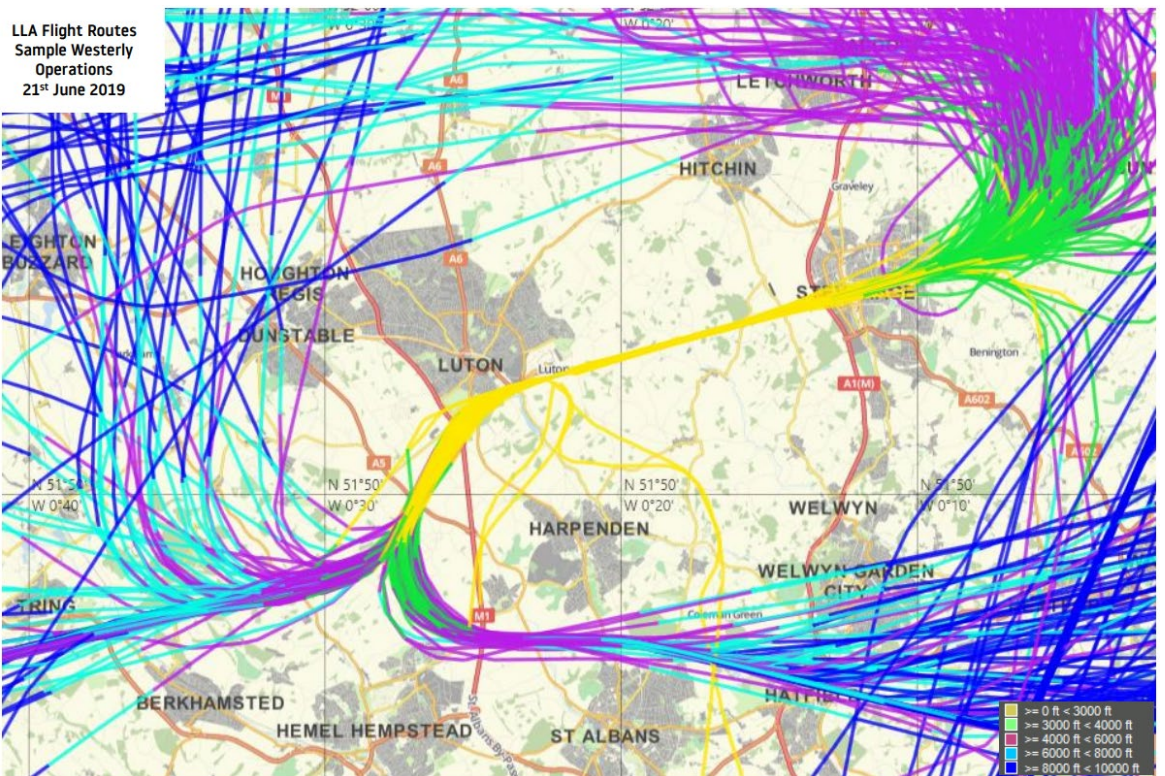


Figure 2-9: 2nd Quarter 2019 Altitude Map Westerly Operations

Quarter 3

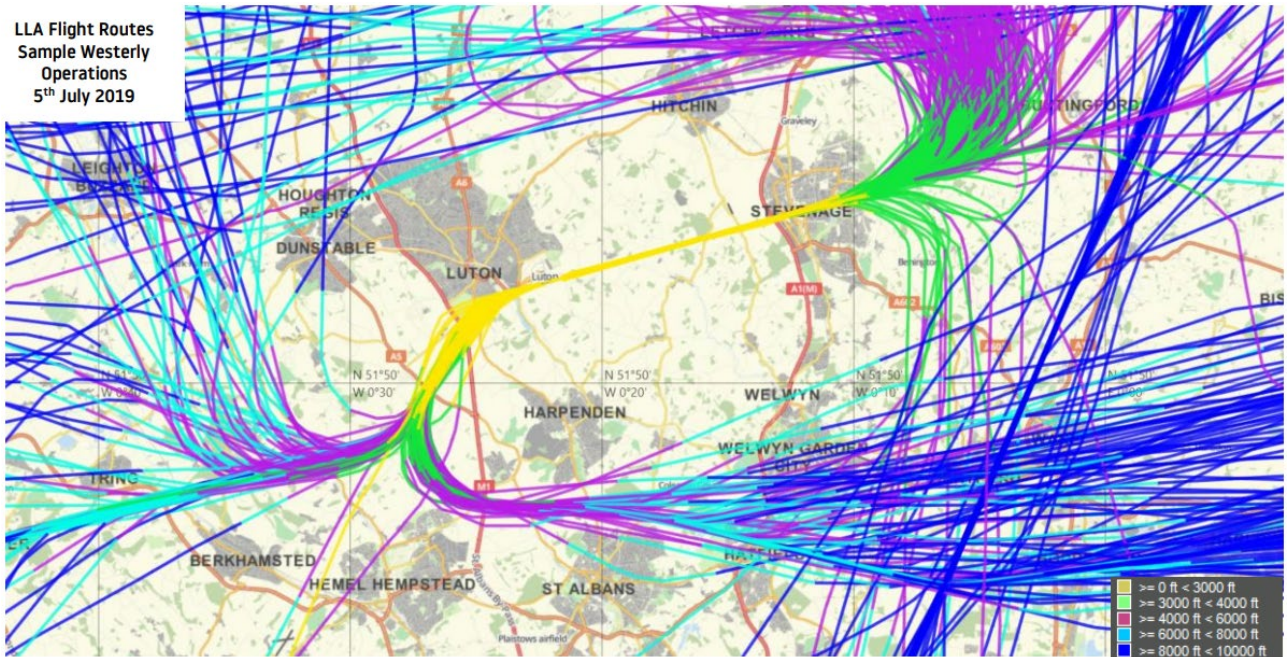


Figure 2-10: 3rd Quarter 2019 Altitude Map Westerly Operations

Quarter 4

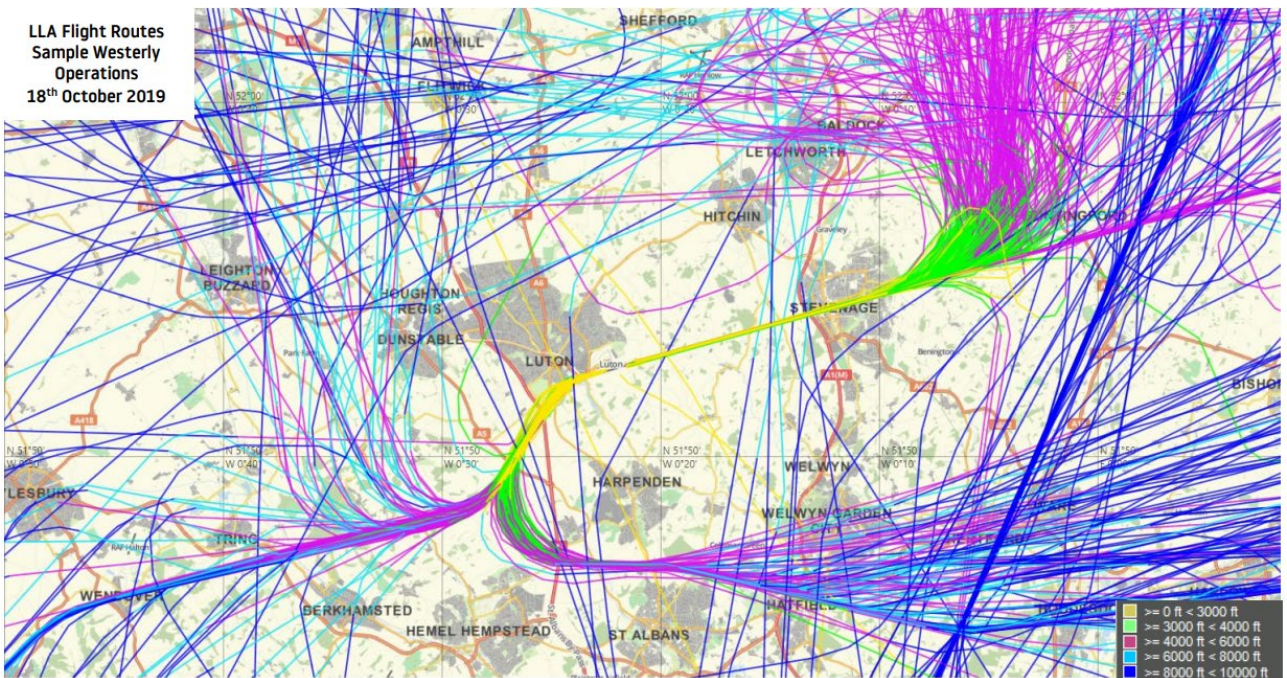


Figure 2-11: 4th Quarter 2019 Altitude Map Westerly Operations

2.4 2020 Quarter 1

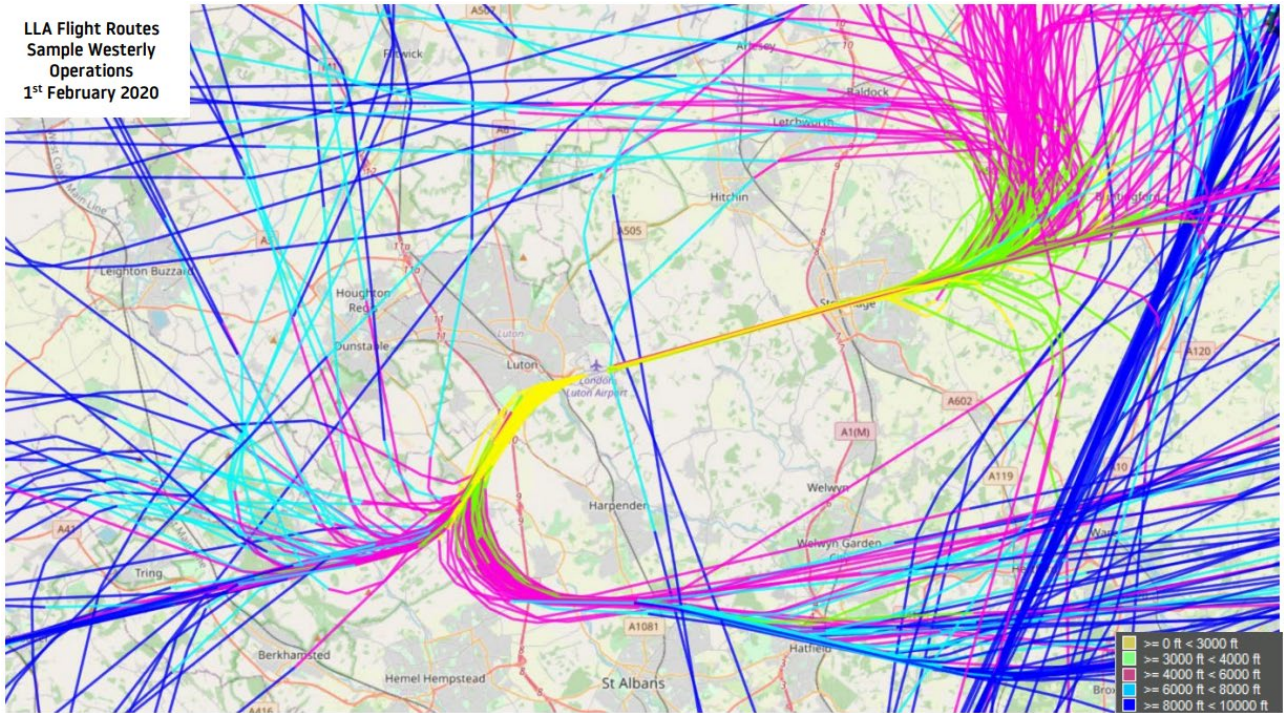


Figure 2-12: 1st Quarter 2020 Altitude Map Westerly Operations

Quarter 2

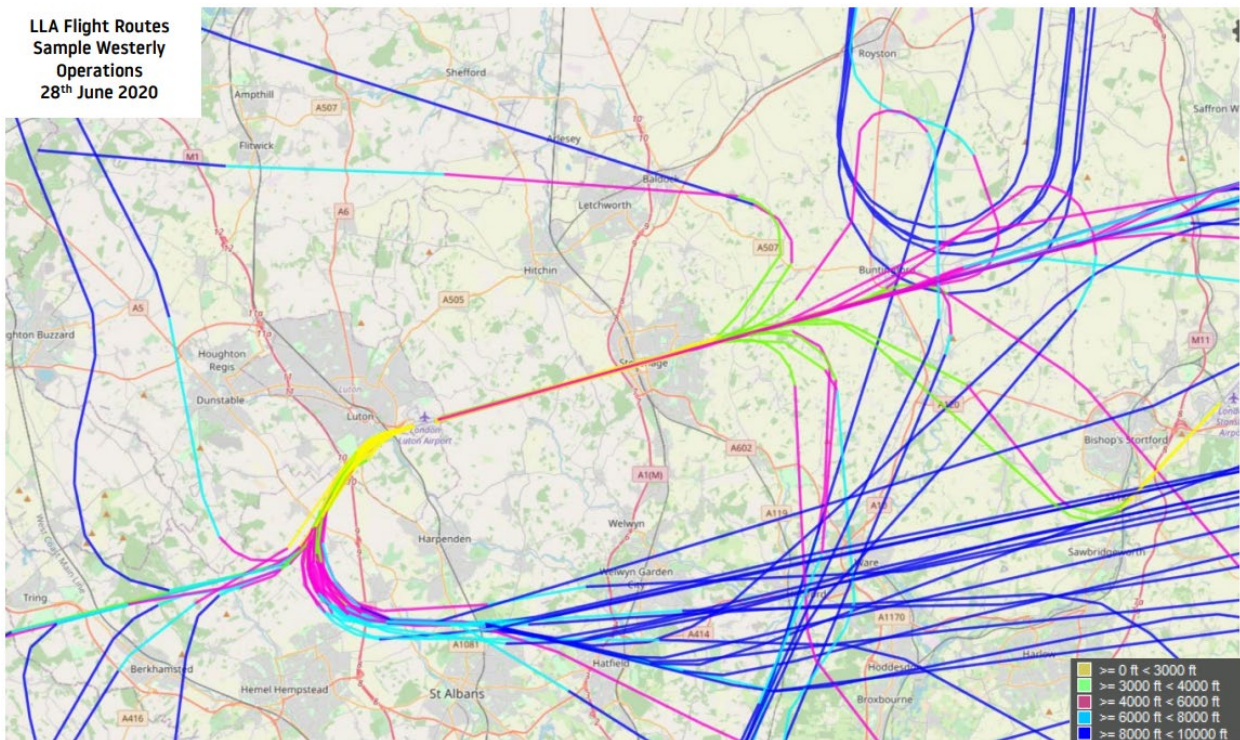


Figure 2-13: 2nd Quarter 2020 Altitude Map Westerly Operations

Quarter 3

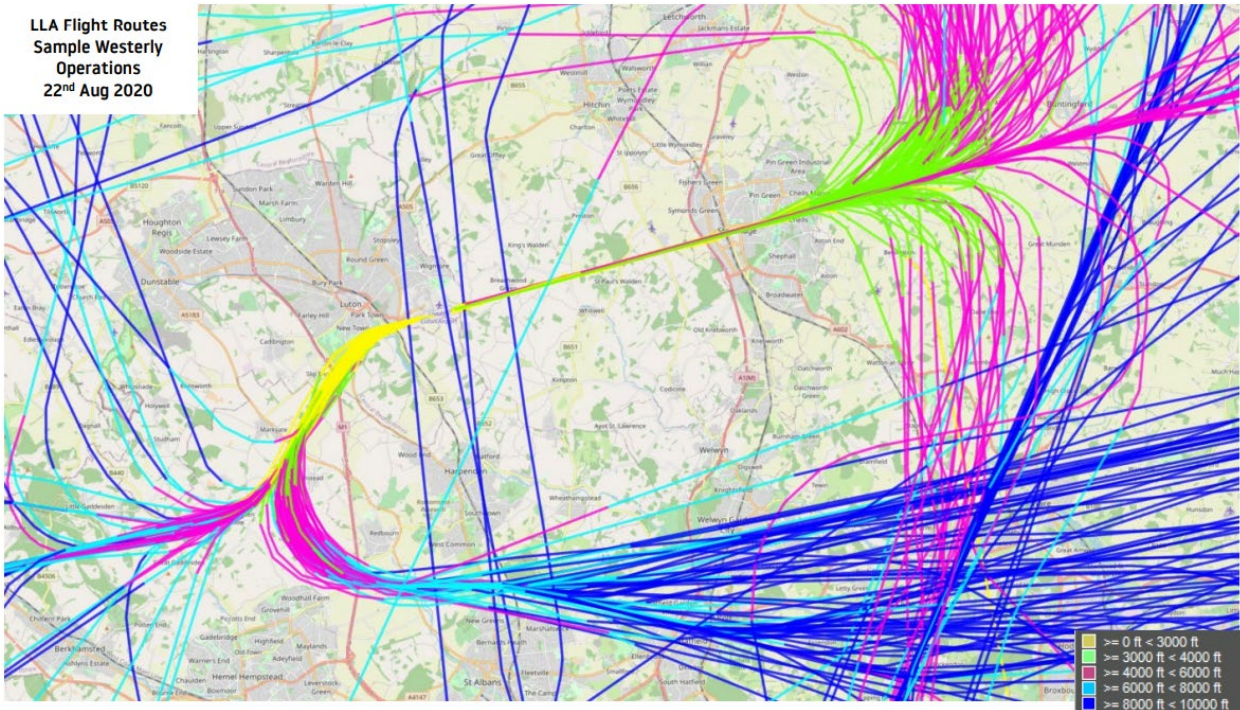


Figure 2-14: 3rd Quarter 2020 Altitude Map Westerly Operations

Quarter 4

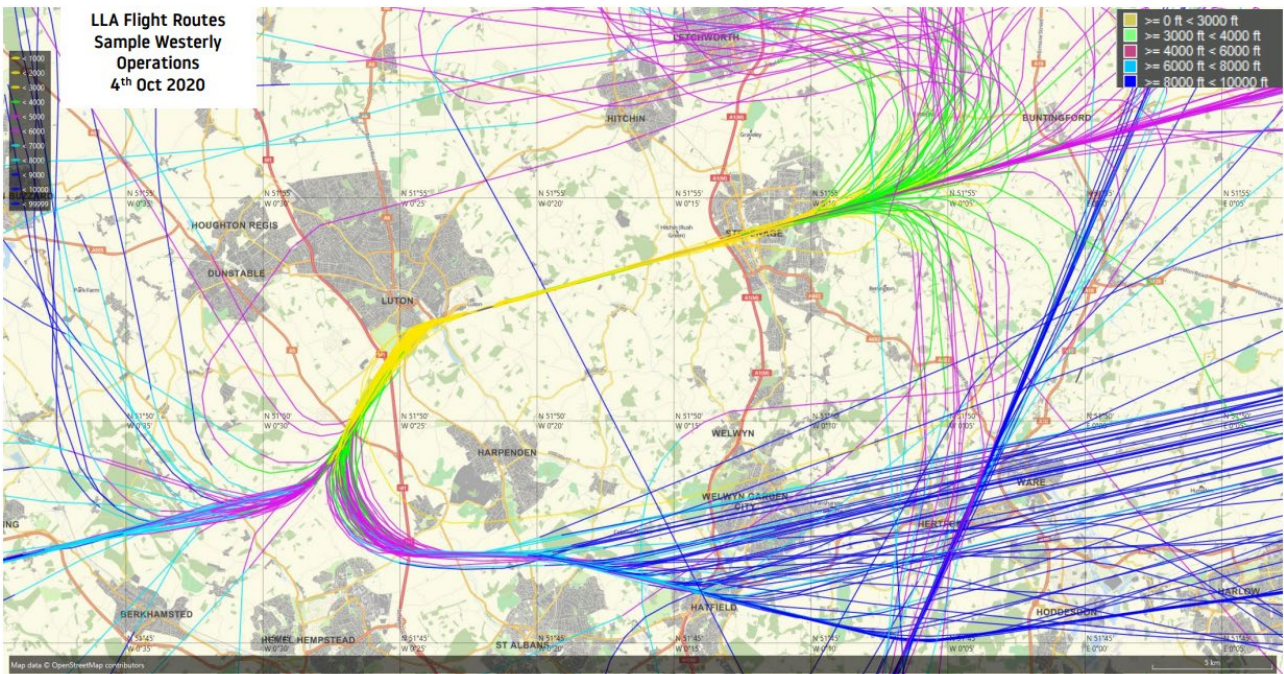


Figure 2-15: 4th Quarter 2020 Altitude Map Westerly Operations

2.5 2021 Quarter 1

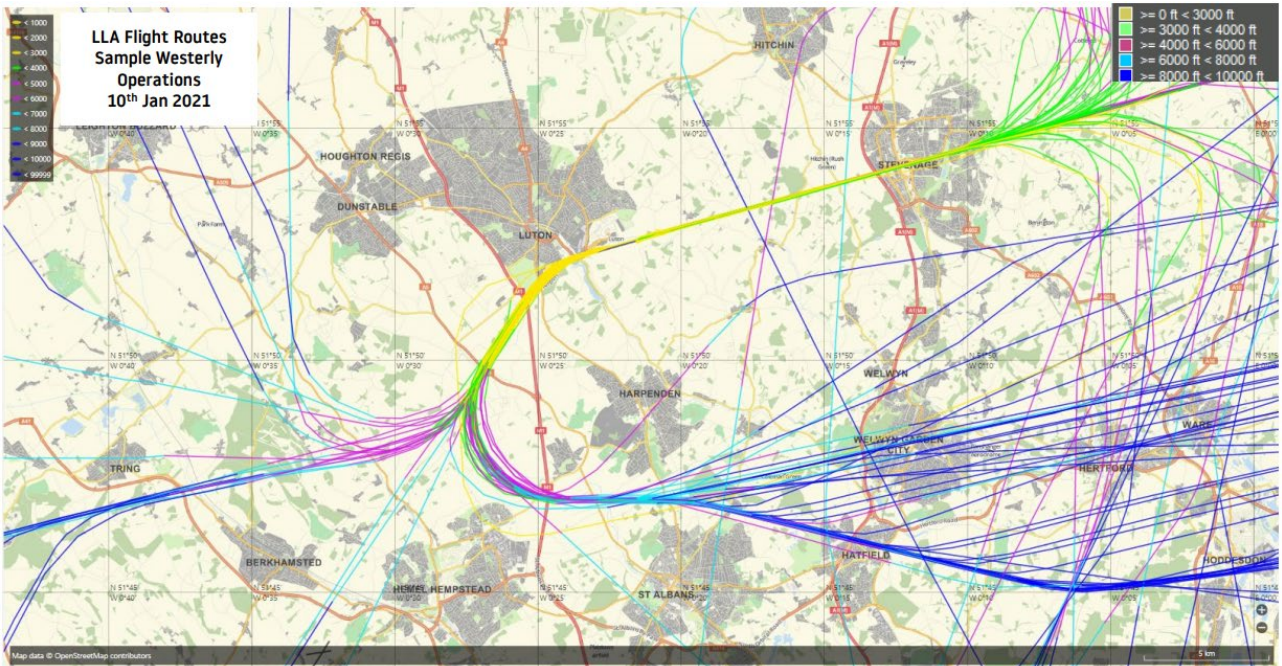


Figure 2-16: 1st Quarter 2021 Altitude Map Westerly Operations

Quarter 2

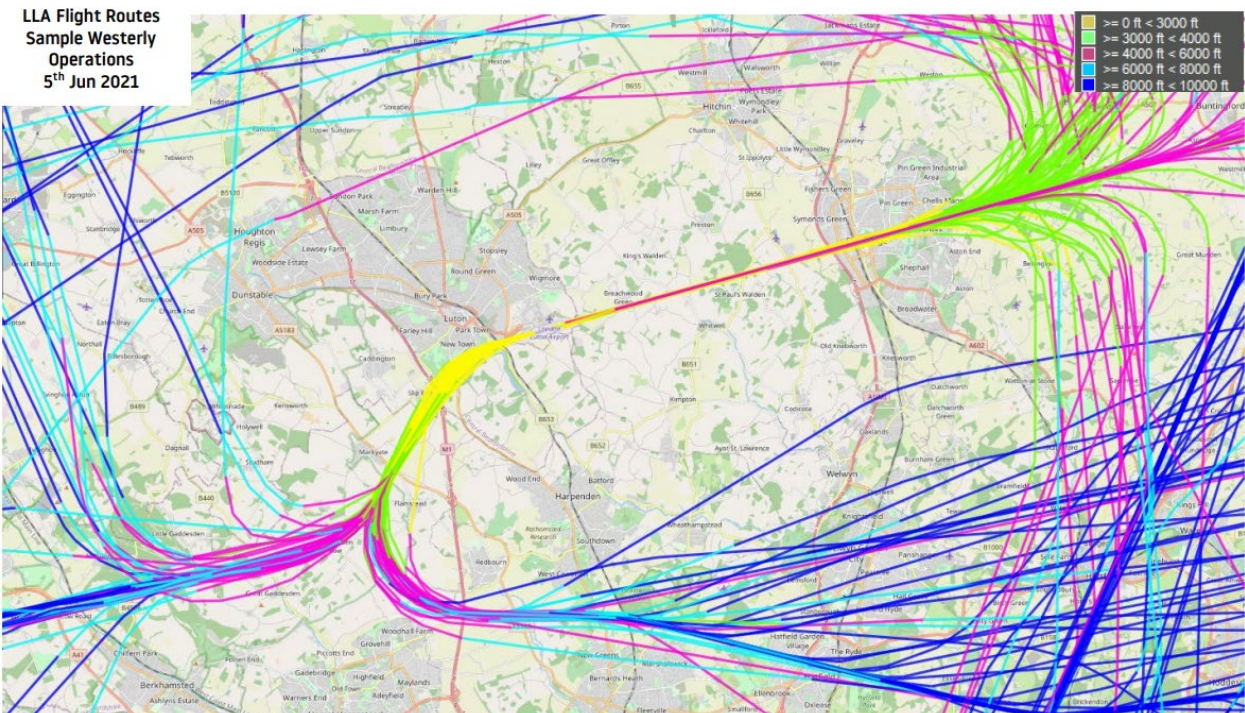


Figure 2-17: 2nd Quarter 2021 Altitude Map Westerly Operations

Quarter 3

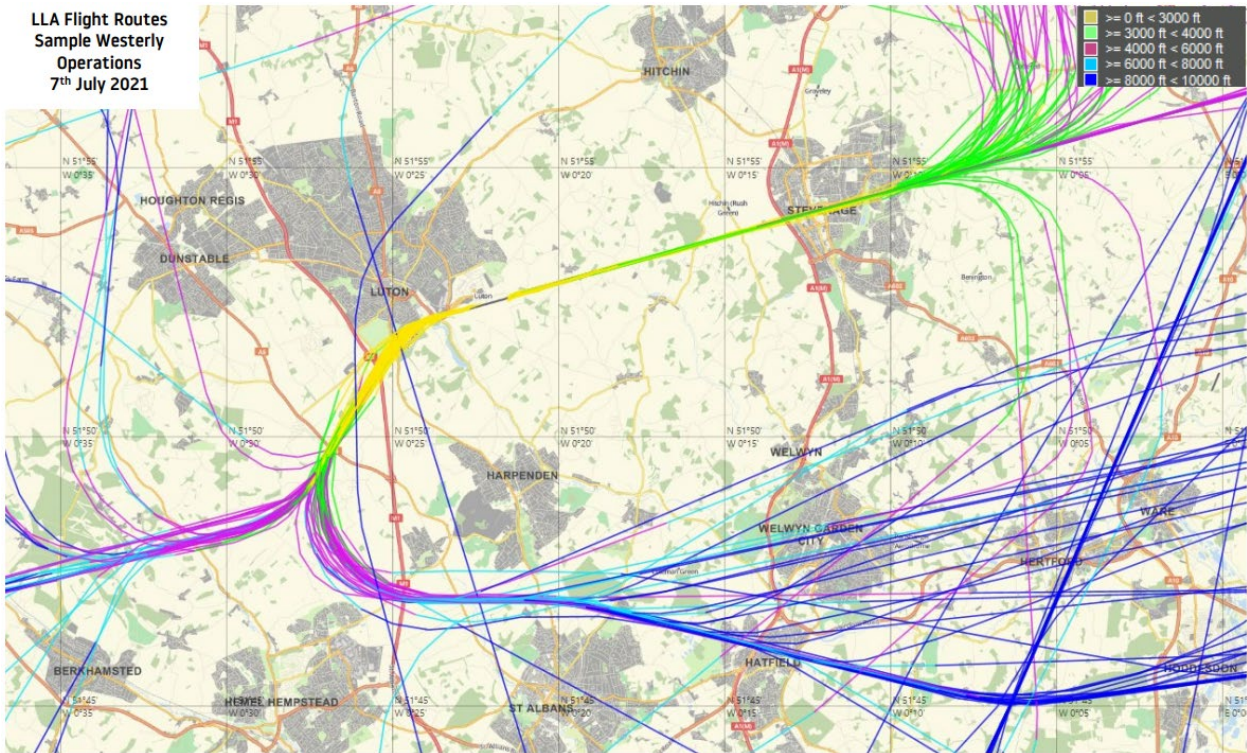


Figure 2-18: 3rd Quarter 2021 Altitude Map Westerly Operations

Quarter 4

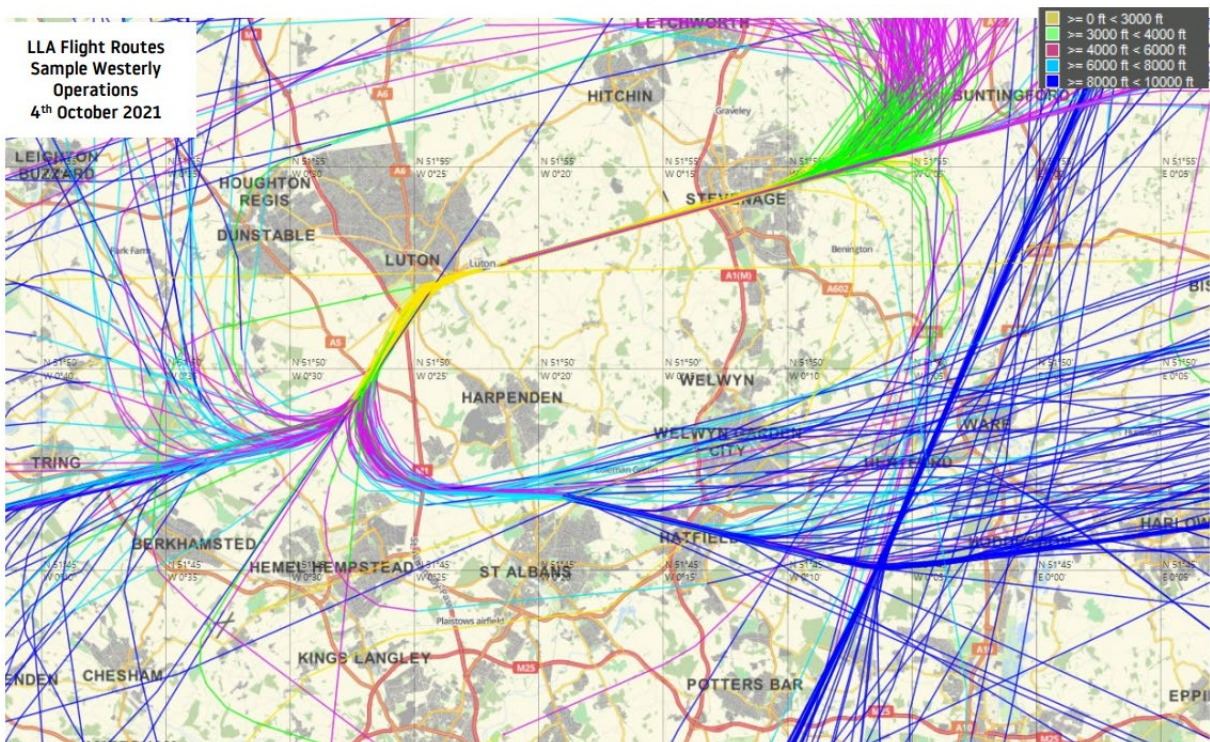


Figure 2-19: 4th Quarter 2021 Altitude Map Westerly Operations

2.6 2022 Quarter 1

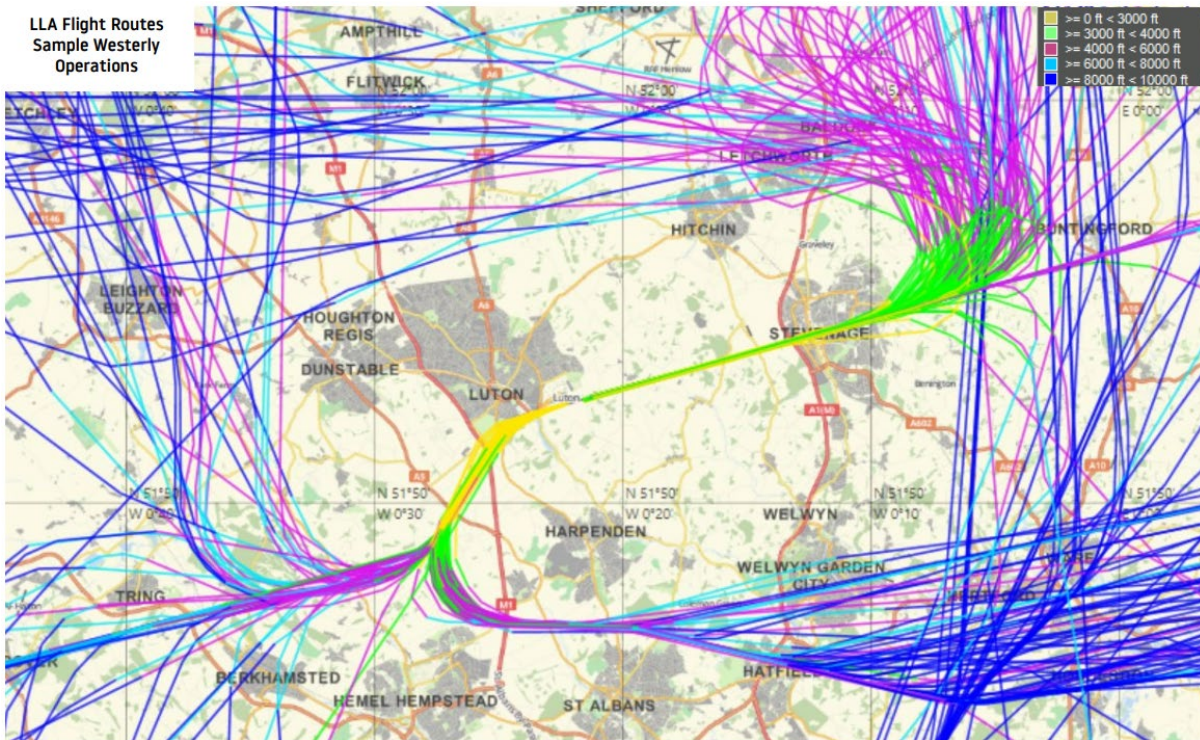


Figure 2-20: 1st Quarter 2022 Altitude Map Westerly Operations

Quarter 2

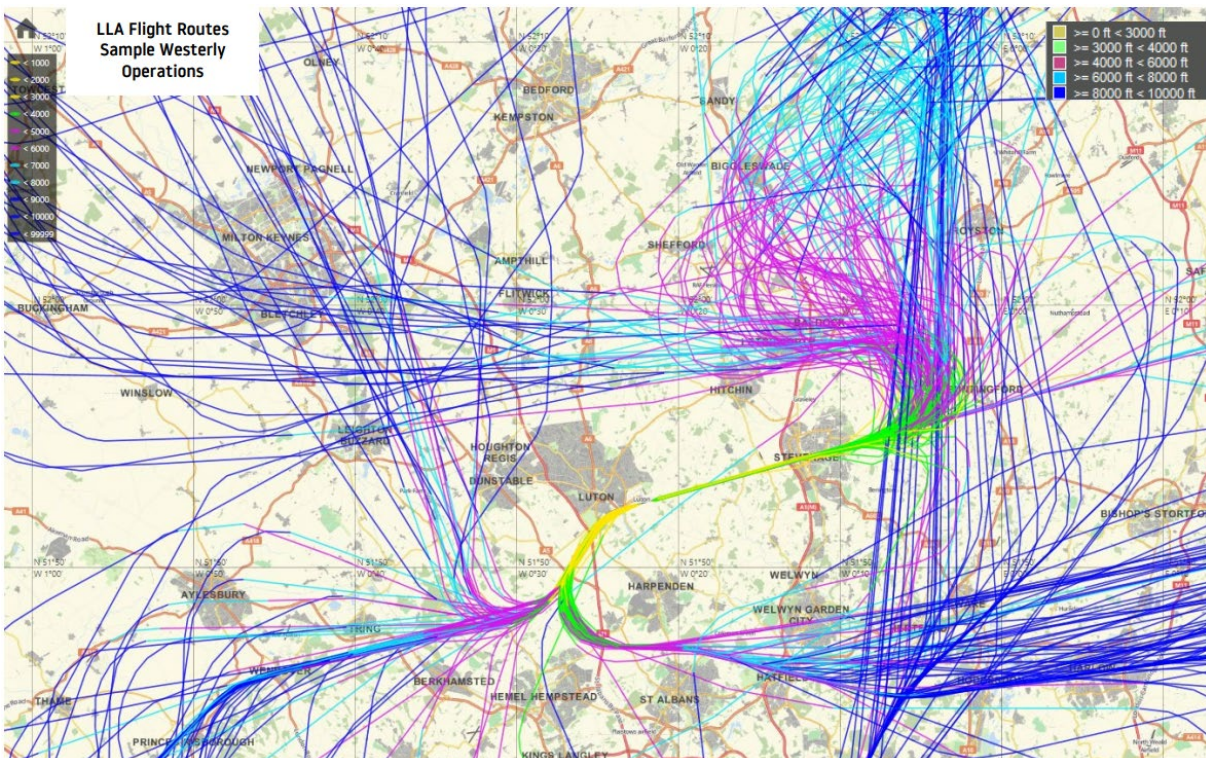


Figure 2-21: 2nd Quarter 2022 Altitude Map Westerly Operations

Quarter 3

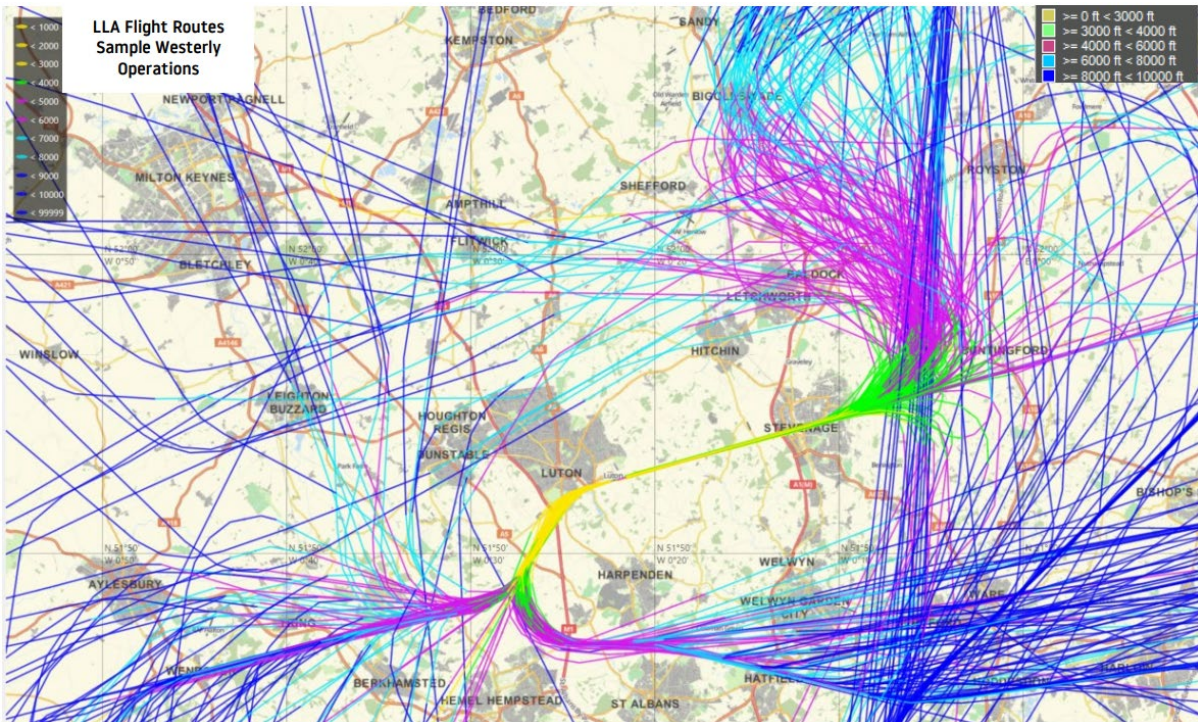


Figure 2-22: 3rd Quarter 2022 Altitude Map Westerly Operations

Quarter 4

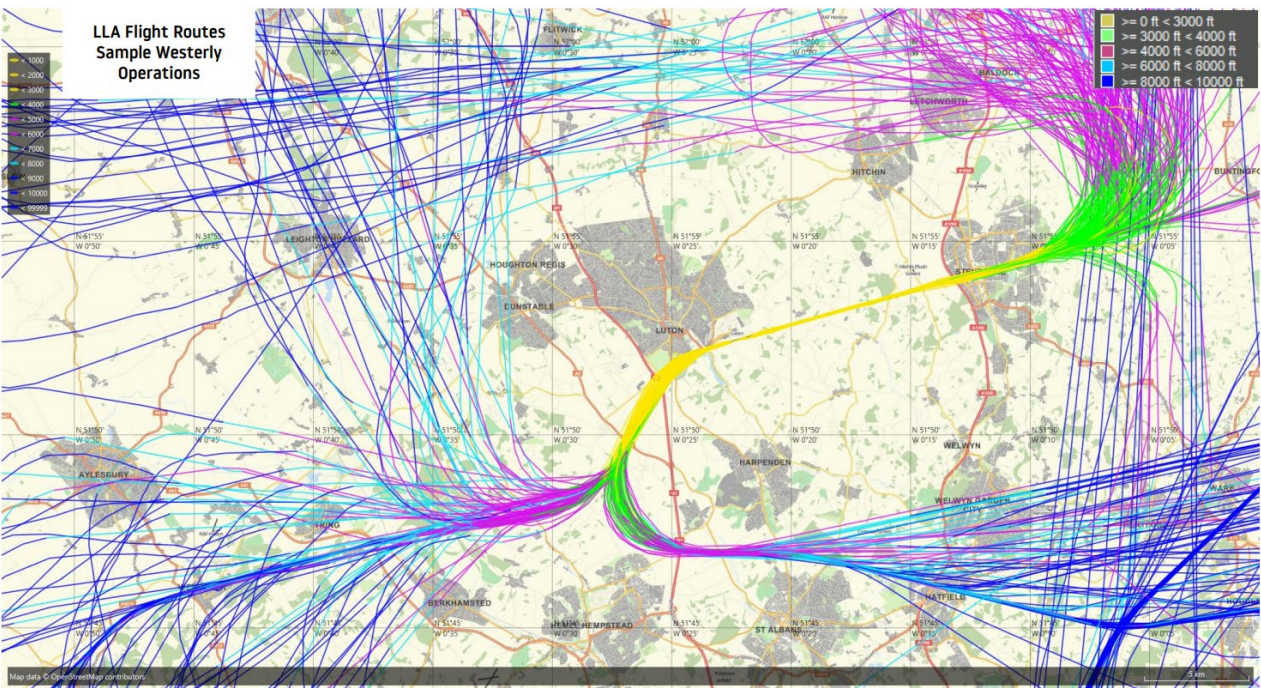


Figure 2-23: 4th Quarter 2022 Altitude Map Westerly Operations

2.7 2023 Quarter 1

LLA Flight Routes
Sample Westerly
Operations

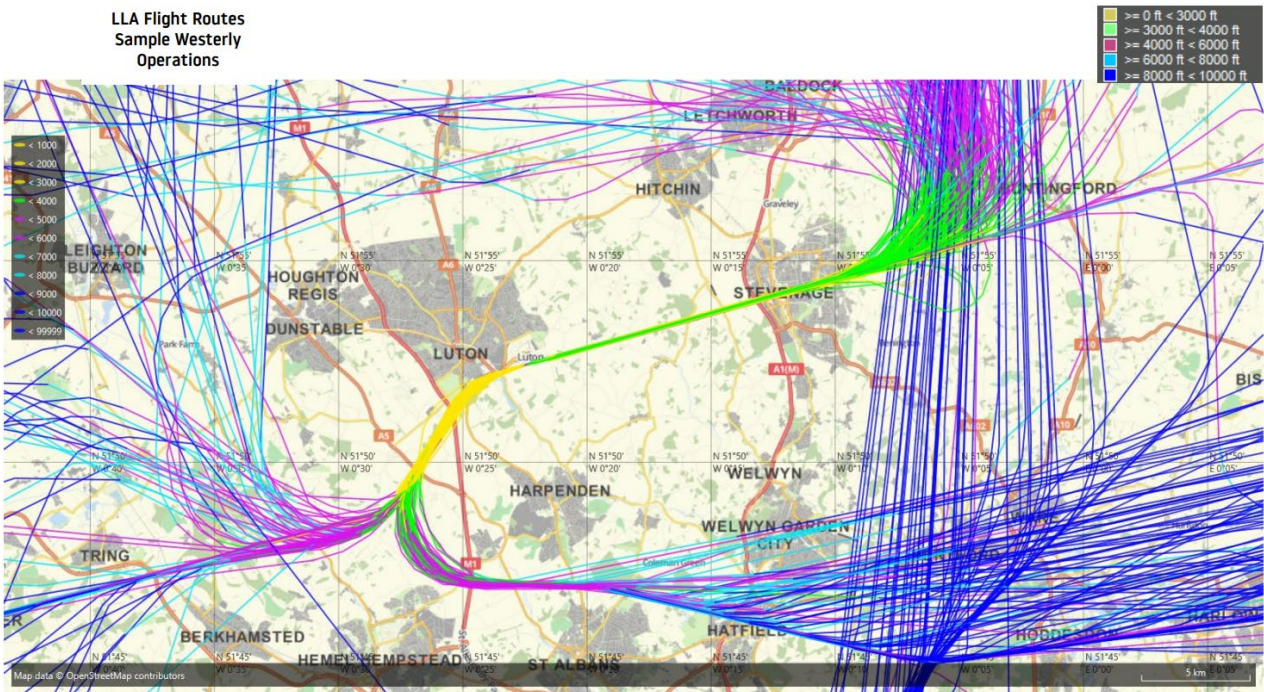


Figure 2-24: 1st Quarter 2023 Altitude Map Westerly Operations

3 EASTERLY OPERATIONS FLIGHTPATH AND ALTITUDE MAPS

3.1 2017

Quarter 2

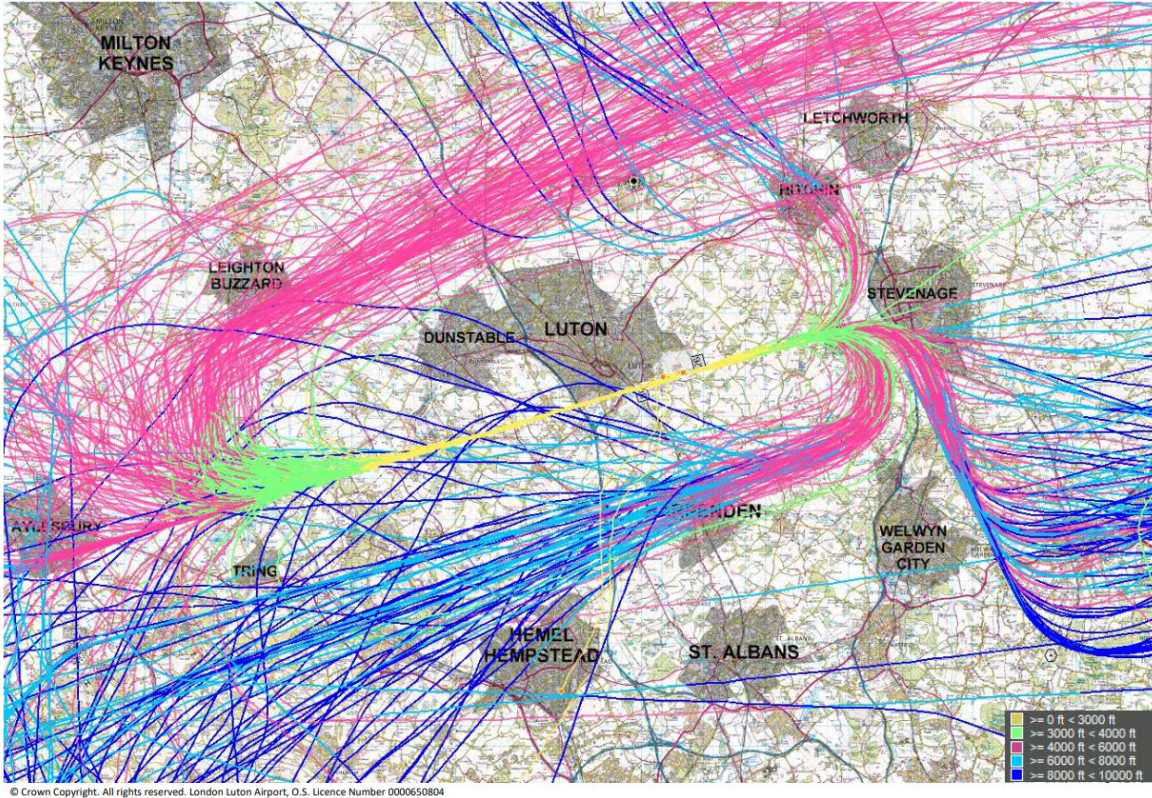


Figure 3-1: 2nd Quarter 2017 Altitude Map Easterly Operations

Quarter 3

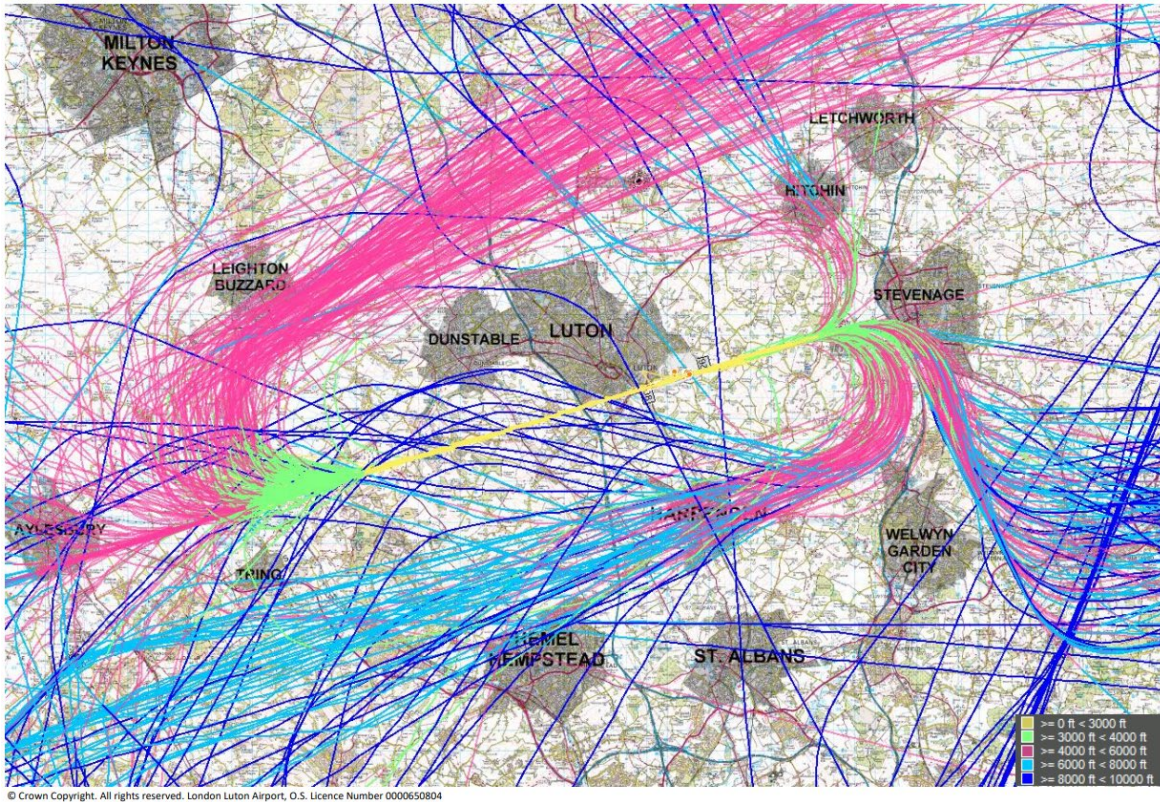


Figure 3-2: 3rd Quarter 2017 Altitude Map Easterly Operations

Quarter 4

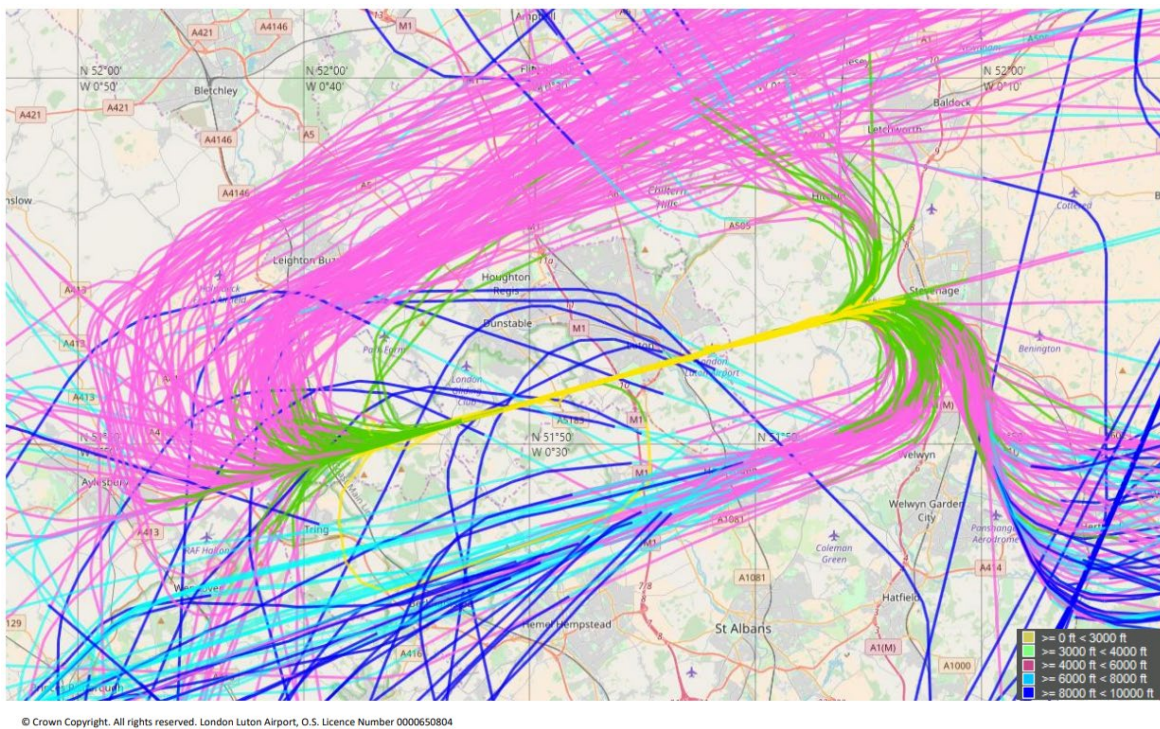


Figure 3-3: 4th Quarter 2017 Altitude Map Easterly Operations

3.2 2018 Quarter 1

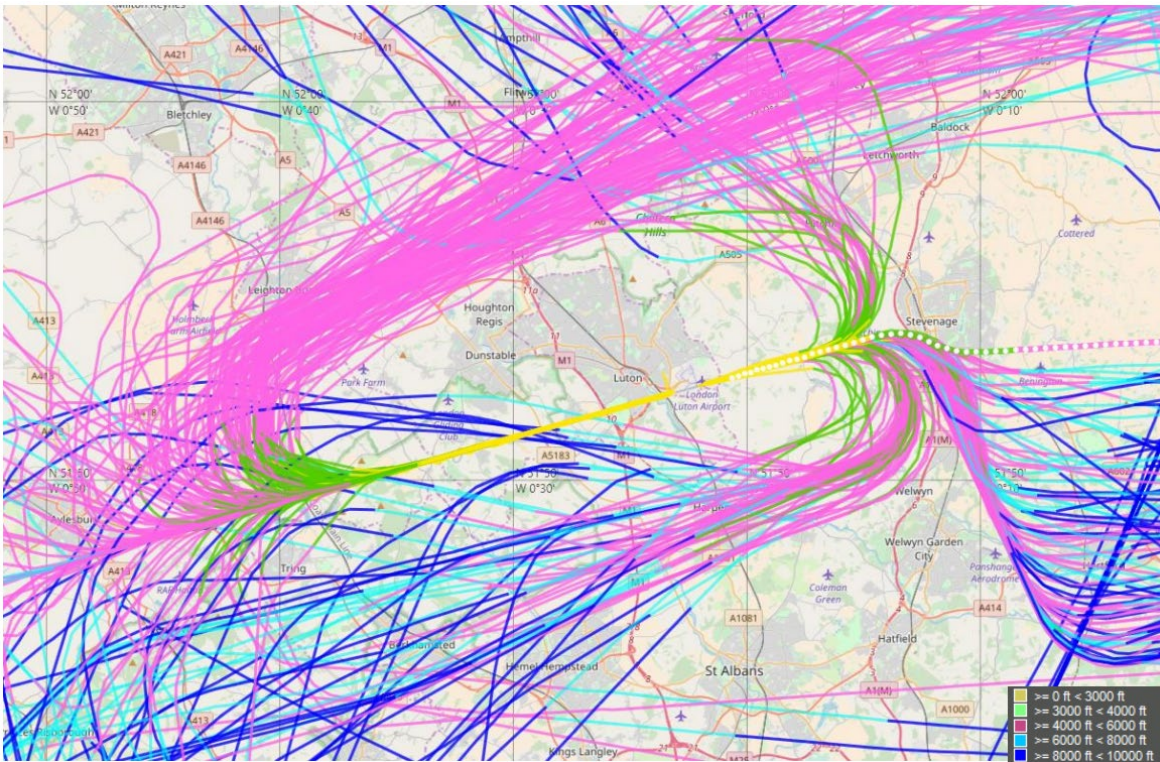


Figure 3-4: 1st Quarter 2018 Altitude Map Easterly Operations

Quarter 2

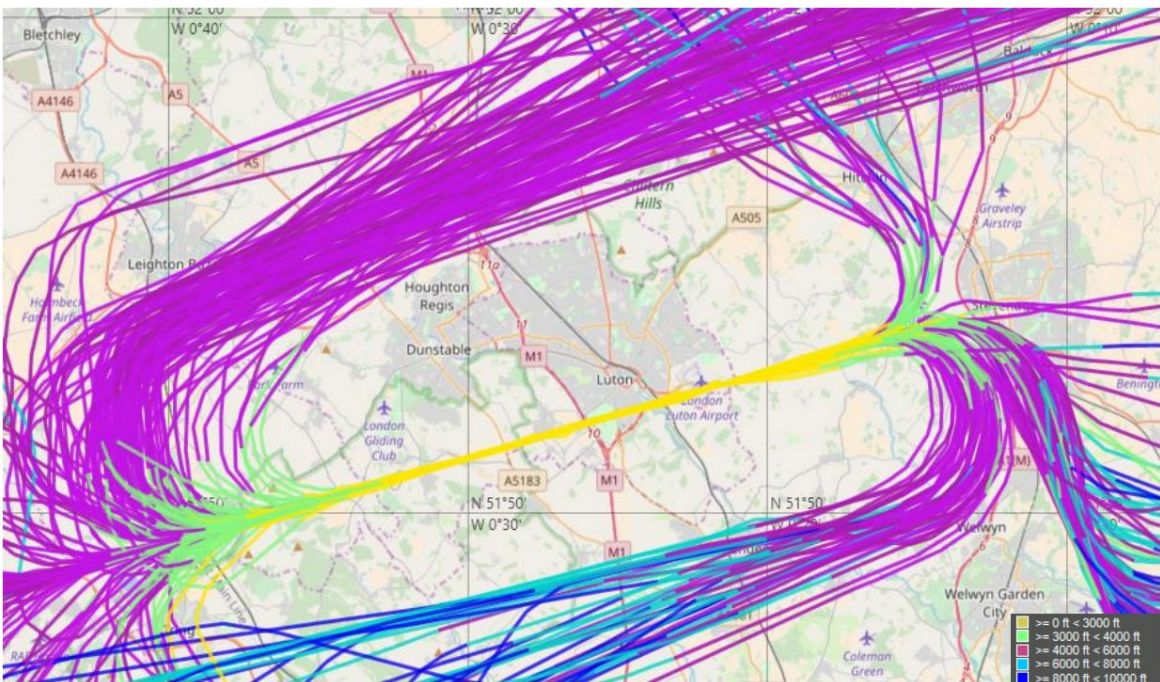


Figure 3-5: 2nd Quarter 2018 Altitude Map Easterly Operations

Quarter 3

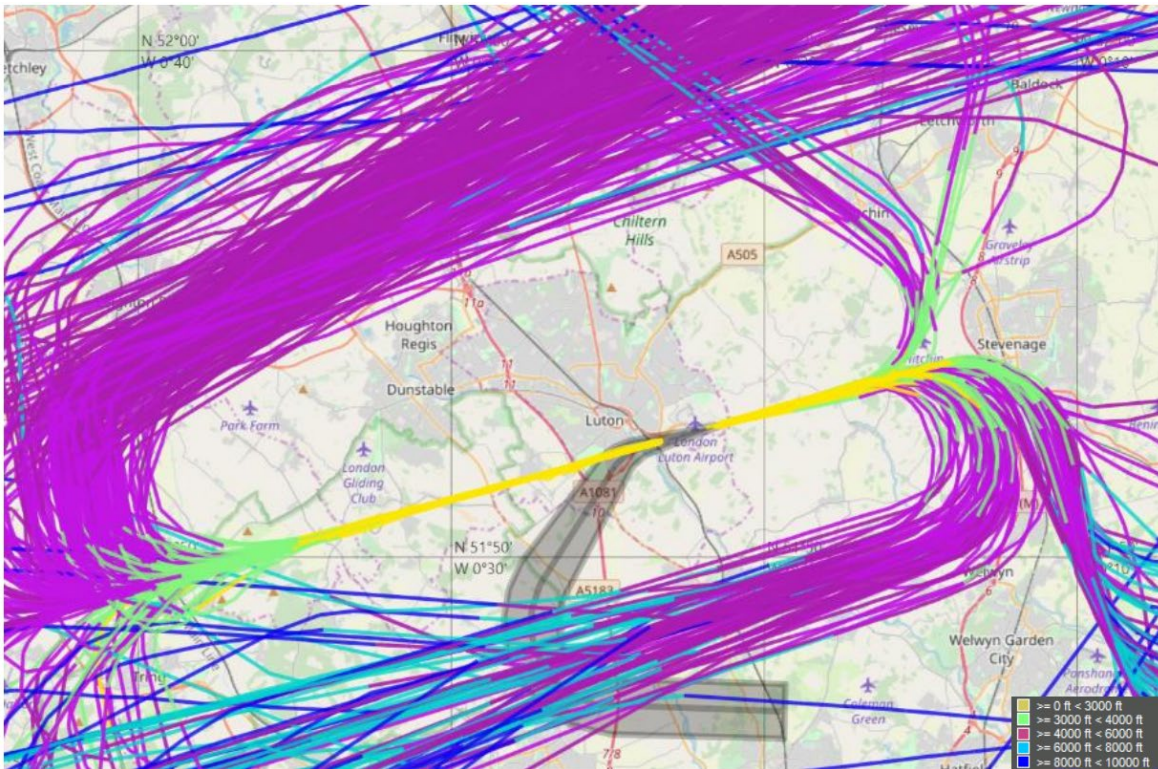


Figure 3-6: 3rd Quarter 2018 Altitude Map Easterly Operations

Quarter 4

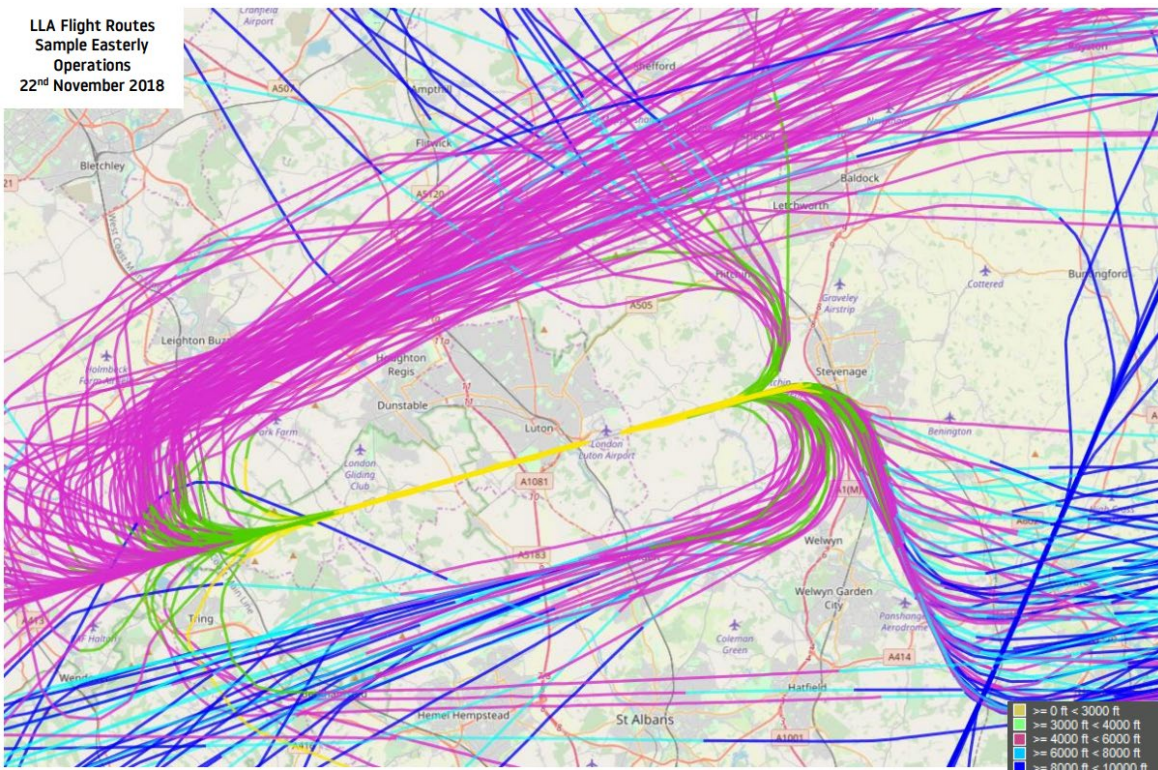


Figure 3-7: 4th Quarter 2018 Altitude Map Easterly Operations

3.3 2019 Quarter 1

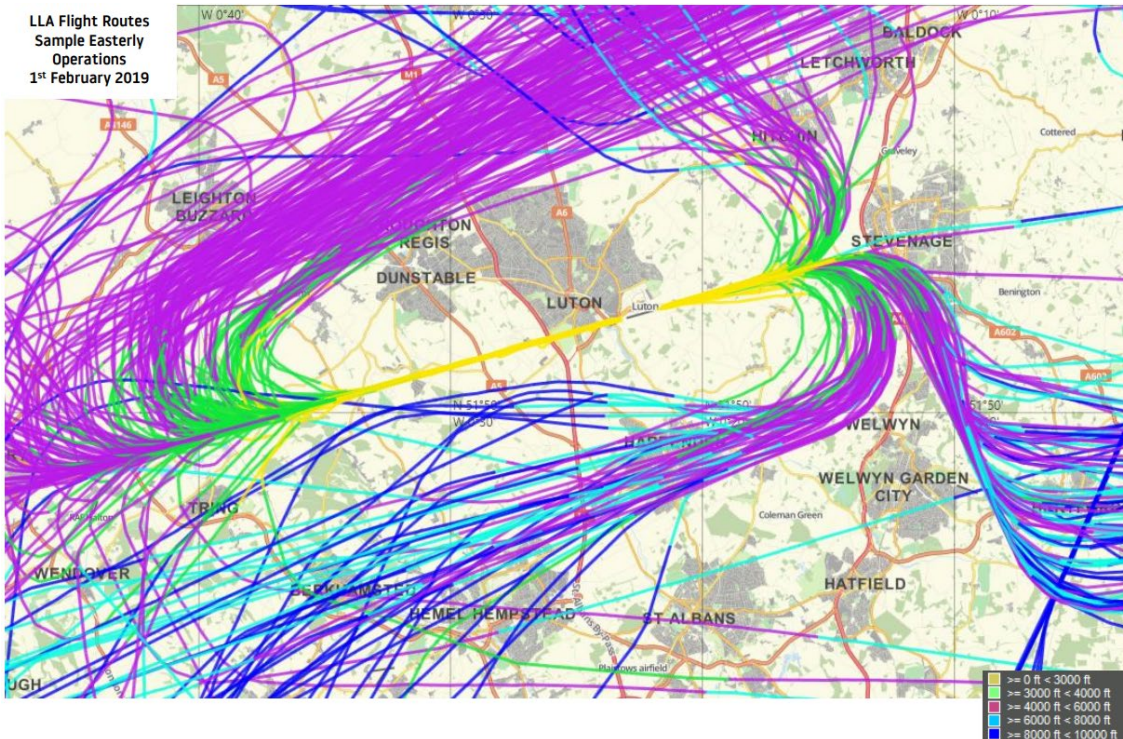


Figure 3-8: 1st Quarter 2019 Altitude Map Easterly Operations

Quarter 2

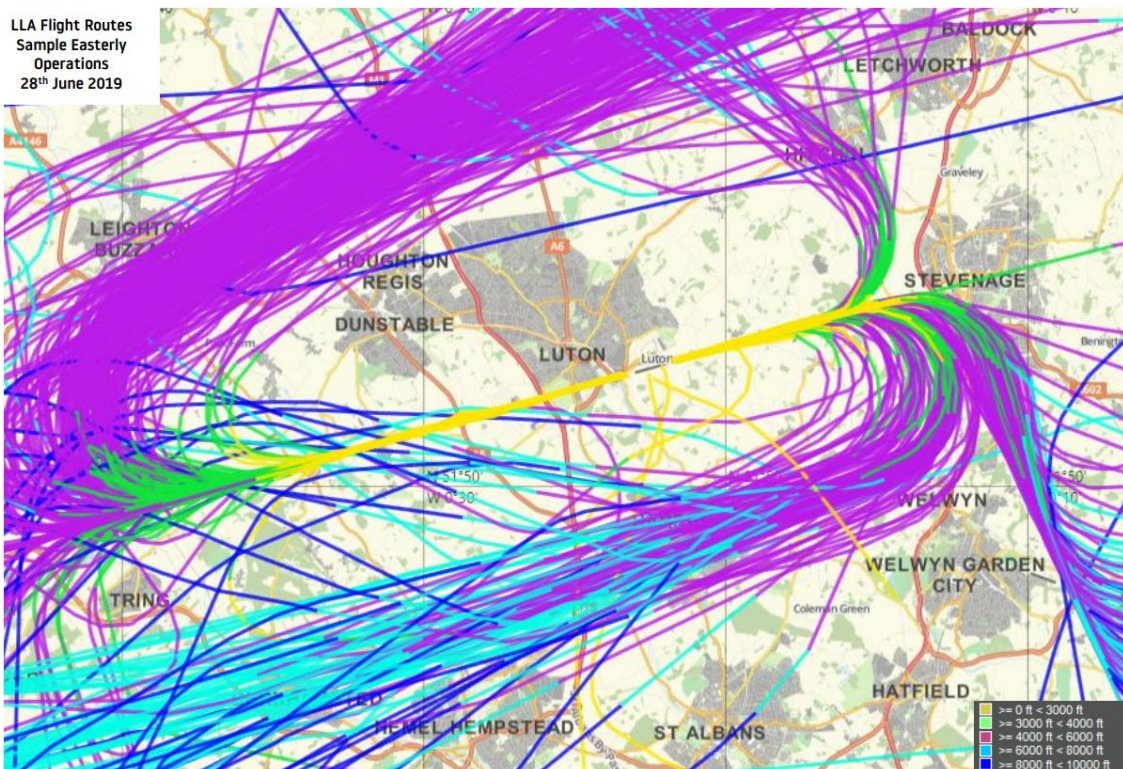


Figure 3-9: 2nd Quarter 2019 Altitude Map Easterly Operations

Quarter 3

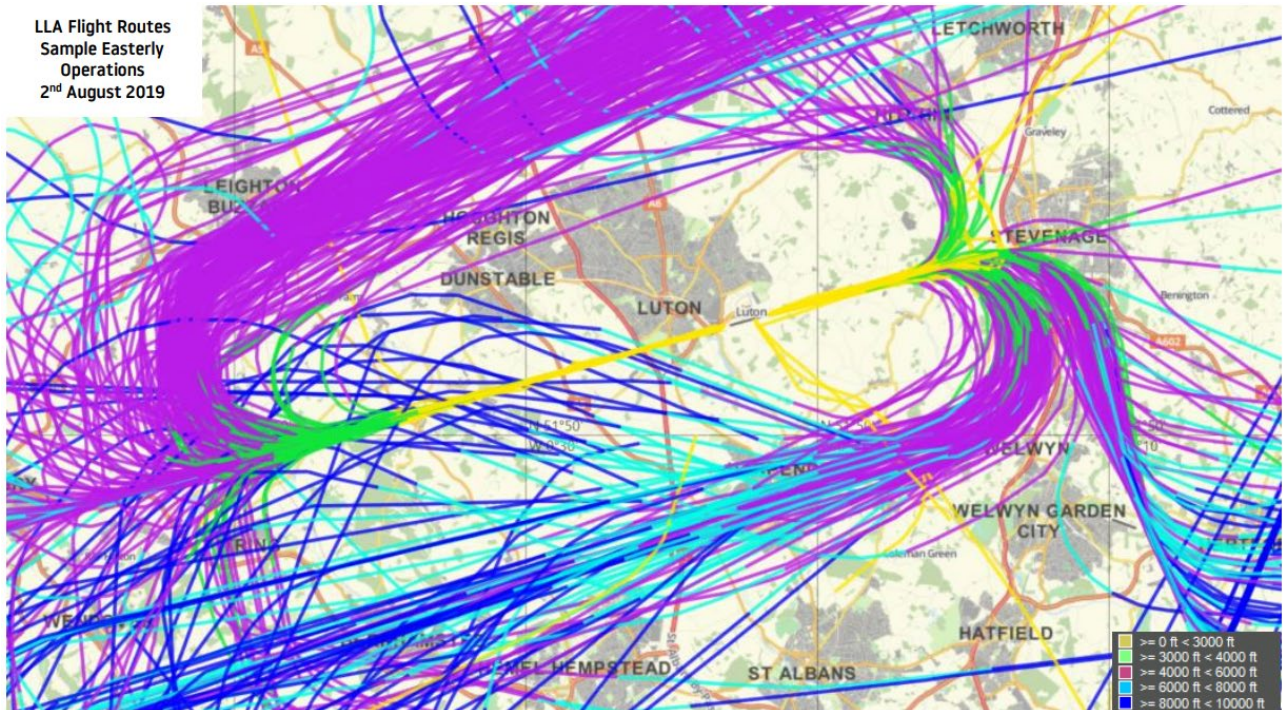


Figure 3-10: 3rd Quarter 2019 Altitude Map Easterly Operations

Quarter 4

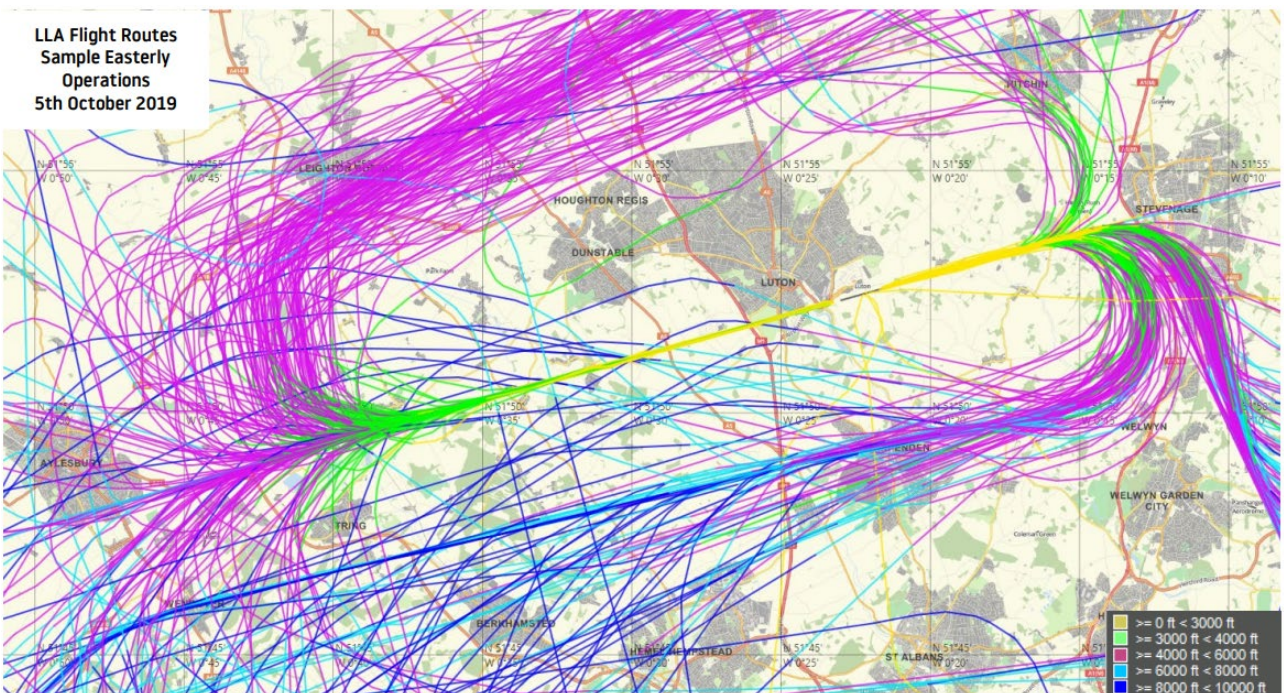


Figure 3-11: 4th Quarter 2019 Altitude Map Easterly Operations

3.4 2020 Quarter 1

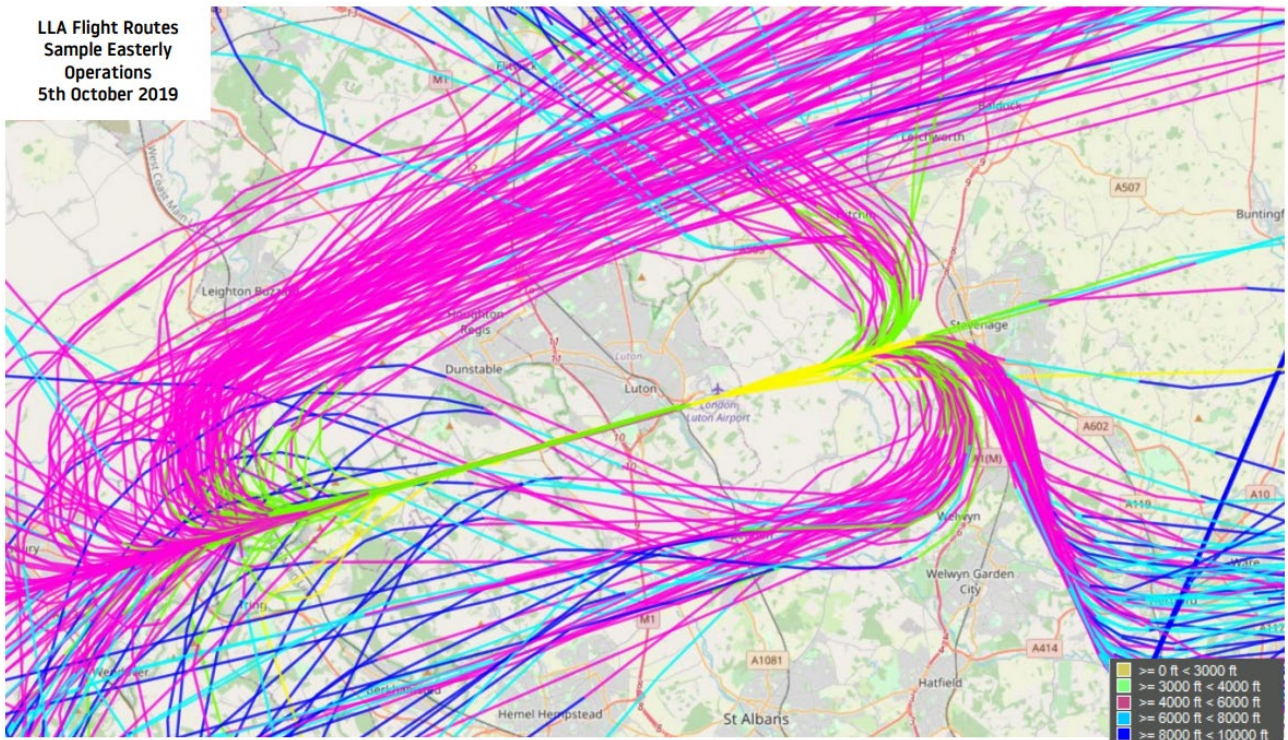


Figure 3-12: 1st Quarter 2020 Altitude Map Easterly Operations
(Please note the image from the Quarterly Monitoring Report is mistakenly labelled and should read 5th March 2020.)

Quarter 2

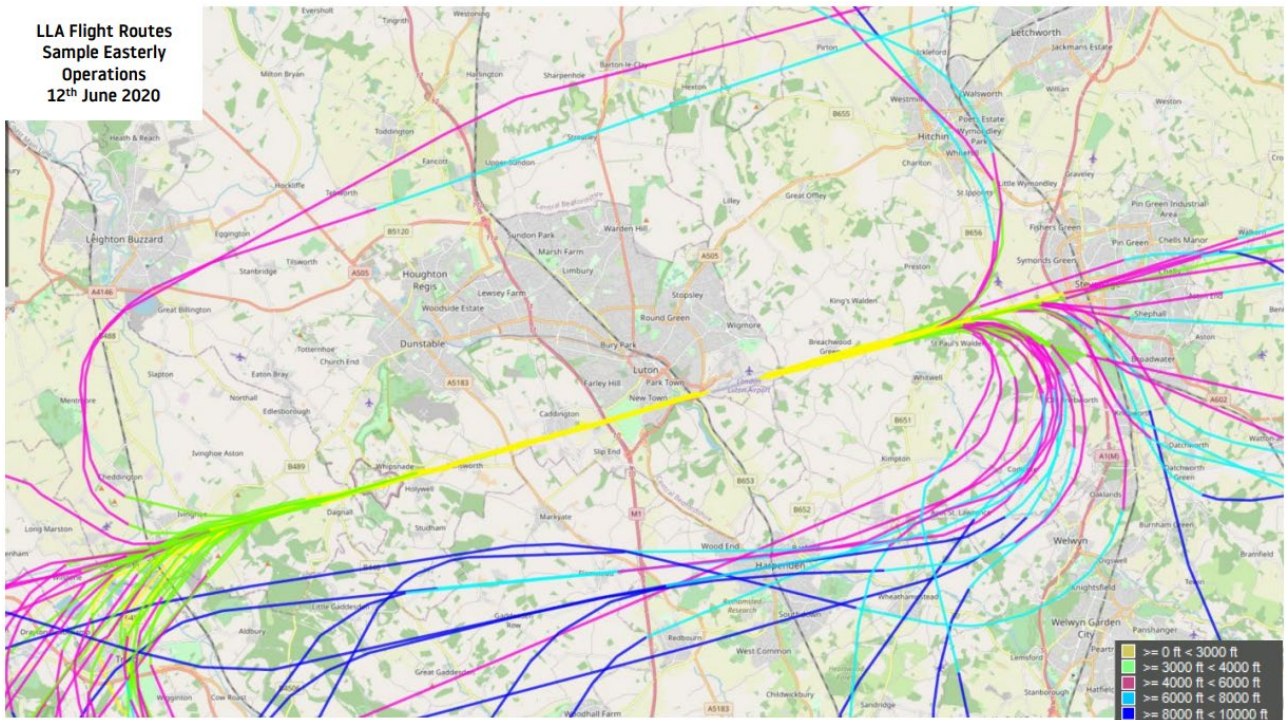


Figure 3-13: 2nd Quarter 2020 Altitude Map Easterly Operations

Quarter 3

LLA Flight Routes
Sample Easterly
Operations
10th Aug 2020

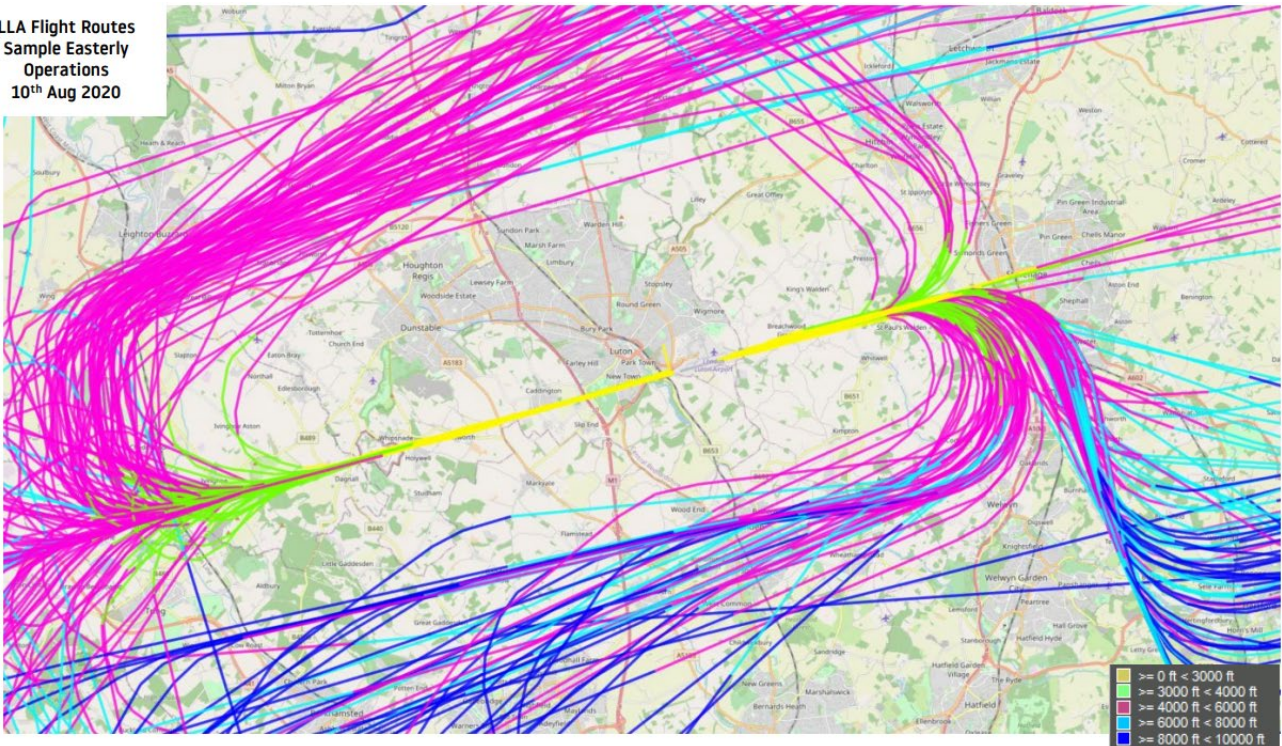


Figure 3-14: 3rd Quarter 2020 Altitude Map Easterly Operations

Quarter 4

LLA Flight Routes
Sample Easterly
Operations
2nd Oct 2020

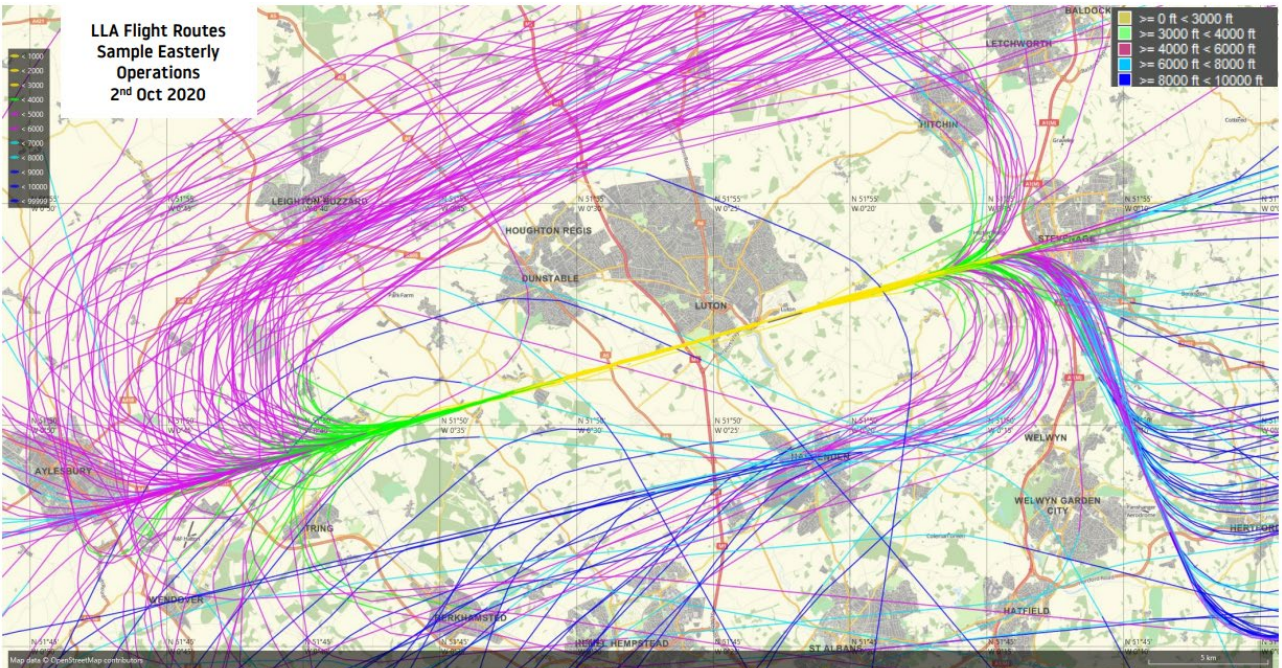


Figure 3-15: 4th Quarter 2020 Altitude Map Easterly Operations

3.5 2021 Quarter 1

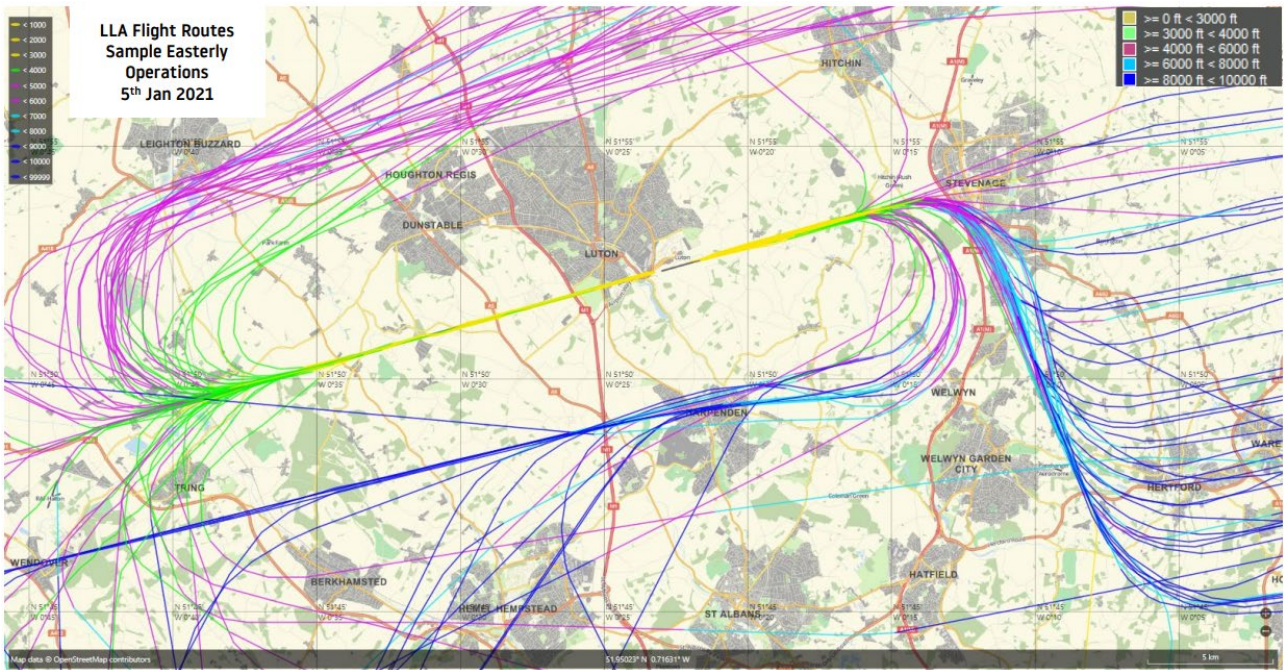


Figure 3-16: 1st Quarter 2021 Altitude Map Easterly Operations

Quarter 2

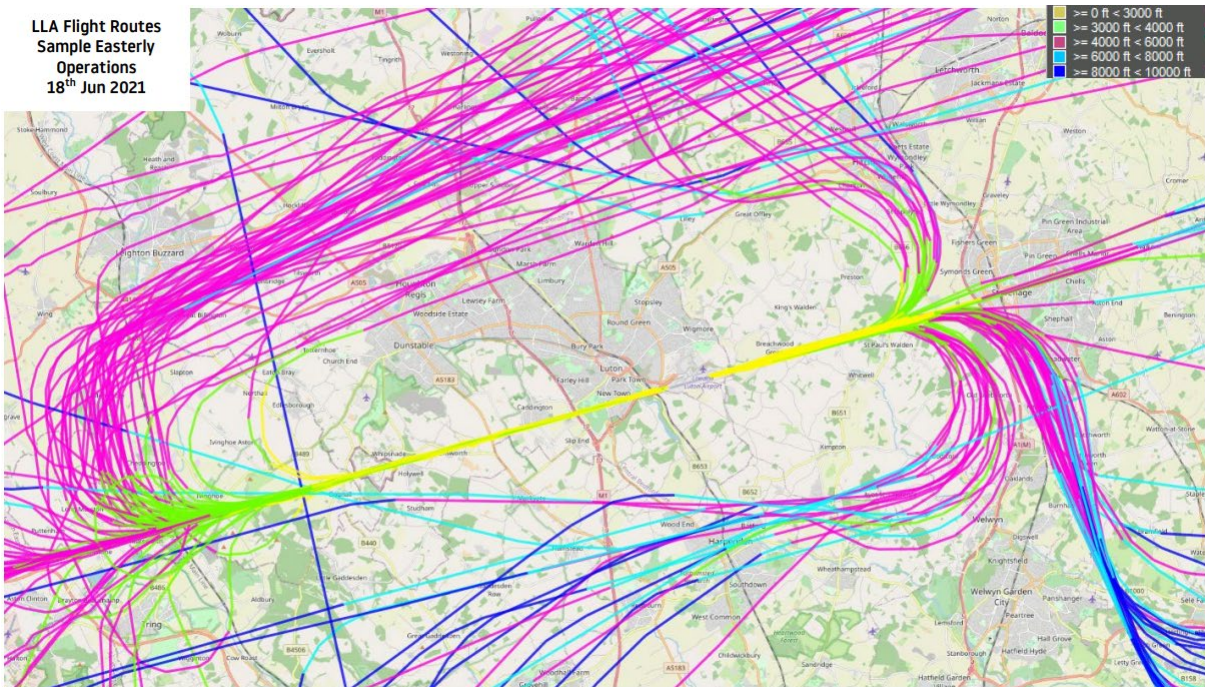


Figure 3-17: 2nd Quarter 2021 Altitude Map Easterly Operations

Quarter 3

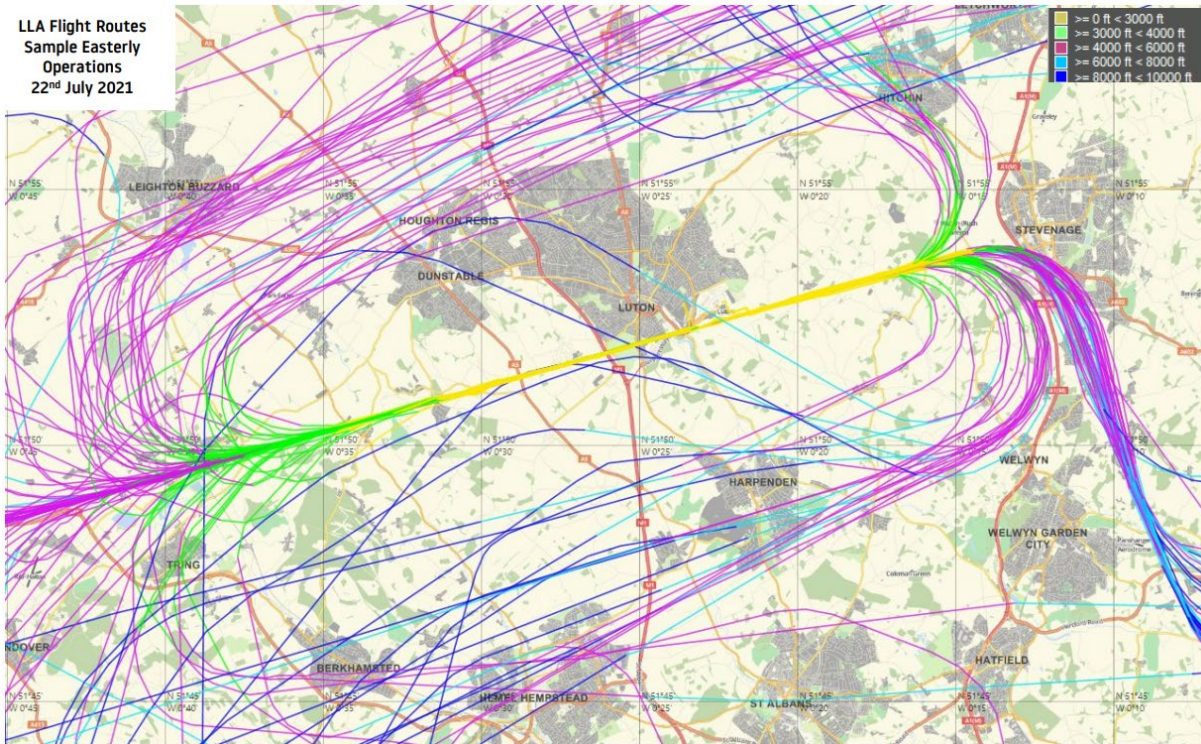


Figure 3-18: 3rd Quarter 2021 Altitude Map Easterly Operations

Quarter 4

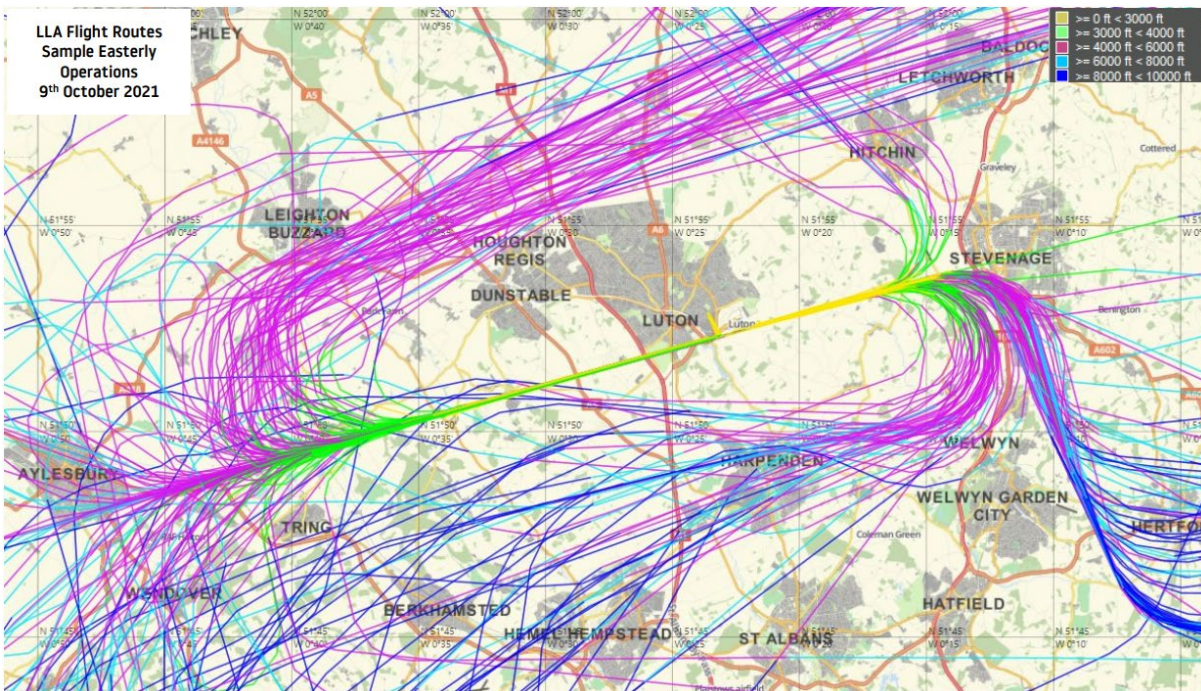


Figure 3-19: 4th Quarter 2021 Altitude Map Easterly Operations

3.6 2022 Quarter 1

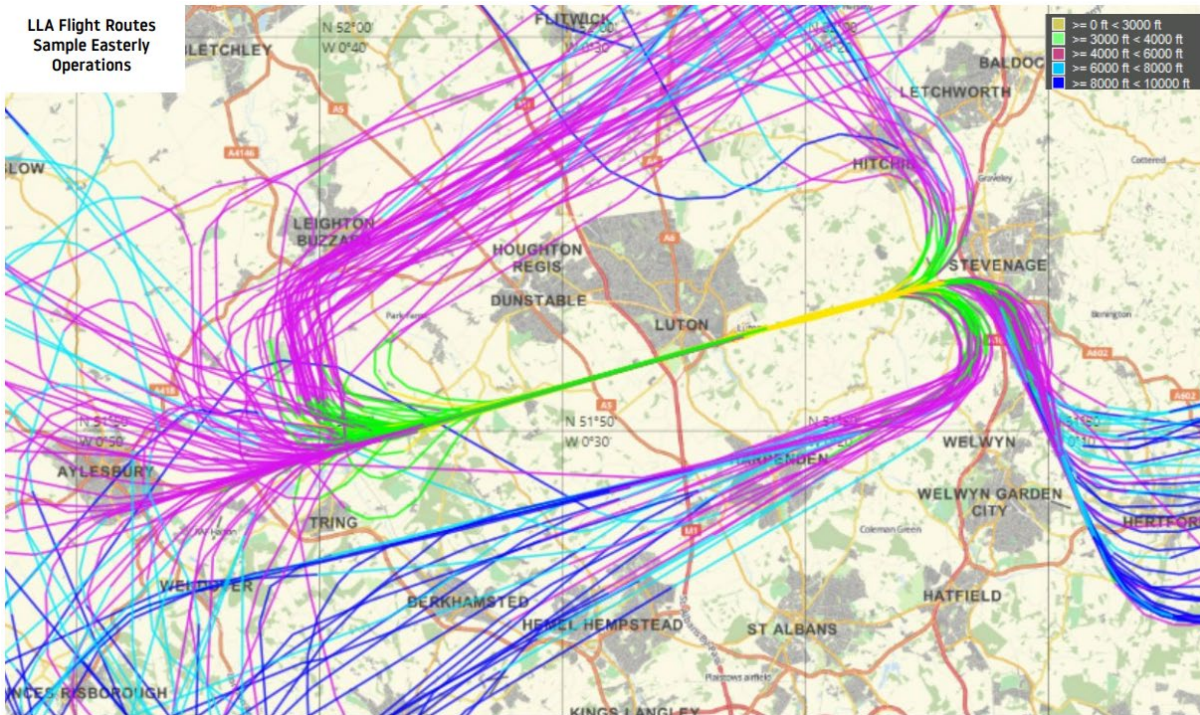


Figure 3-20: 1st Quarter 2022 Altitude Map Easterly Operations

Quarter 2

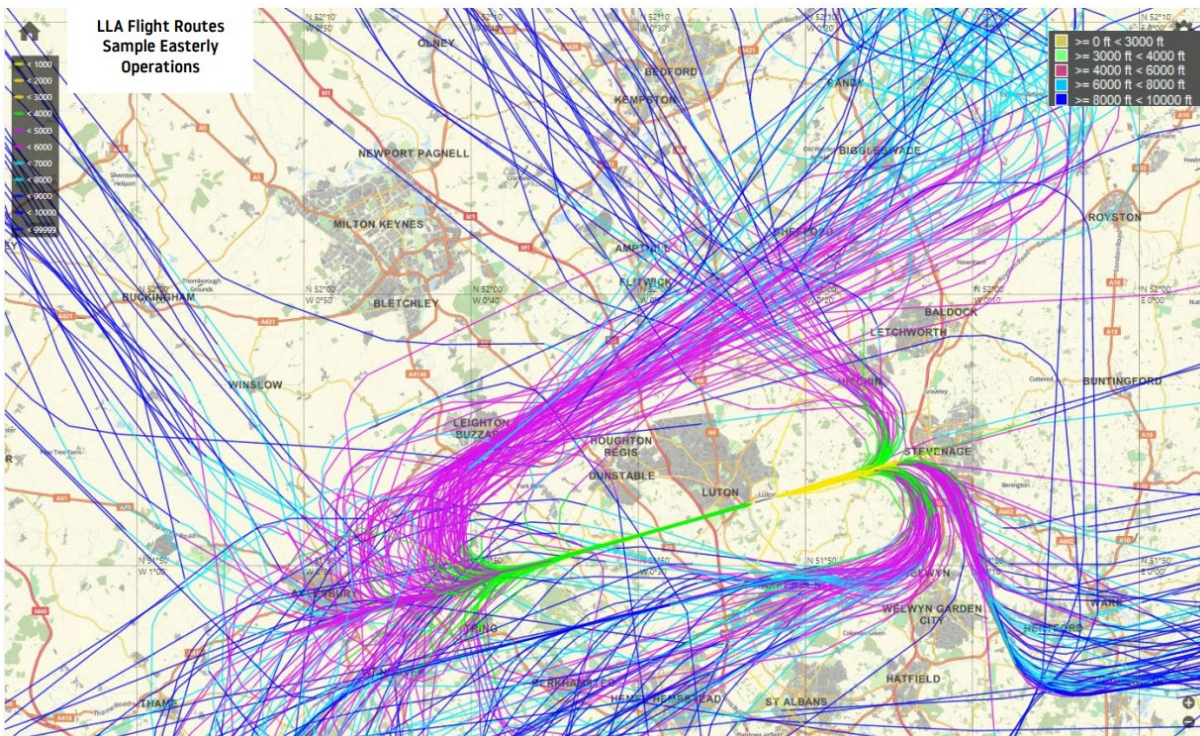


Figure 3-21: 2nd Quarter 2022 Altitude Map Easterly Operations

Quarter 3

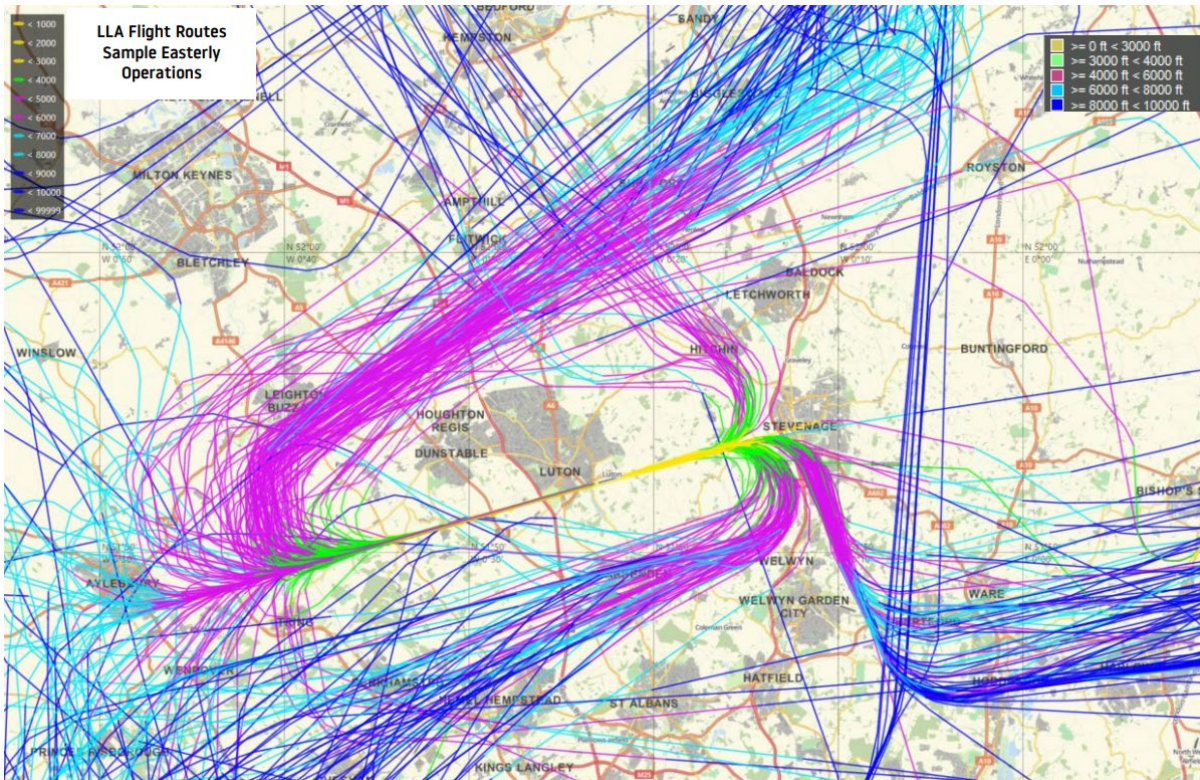


Figure 3-22: 3rd Quarter 2022 Altitude Map Easterly Operations

Quarter 4

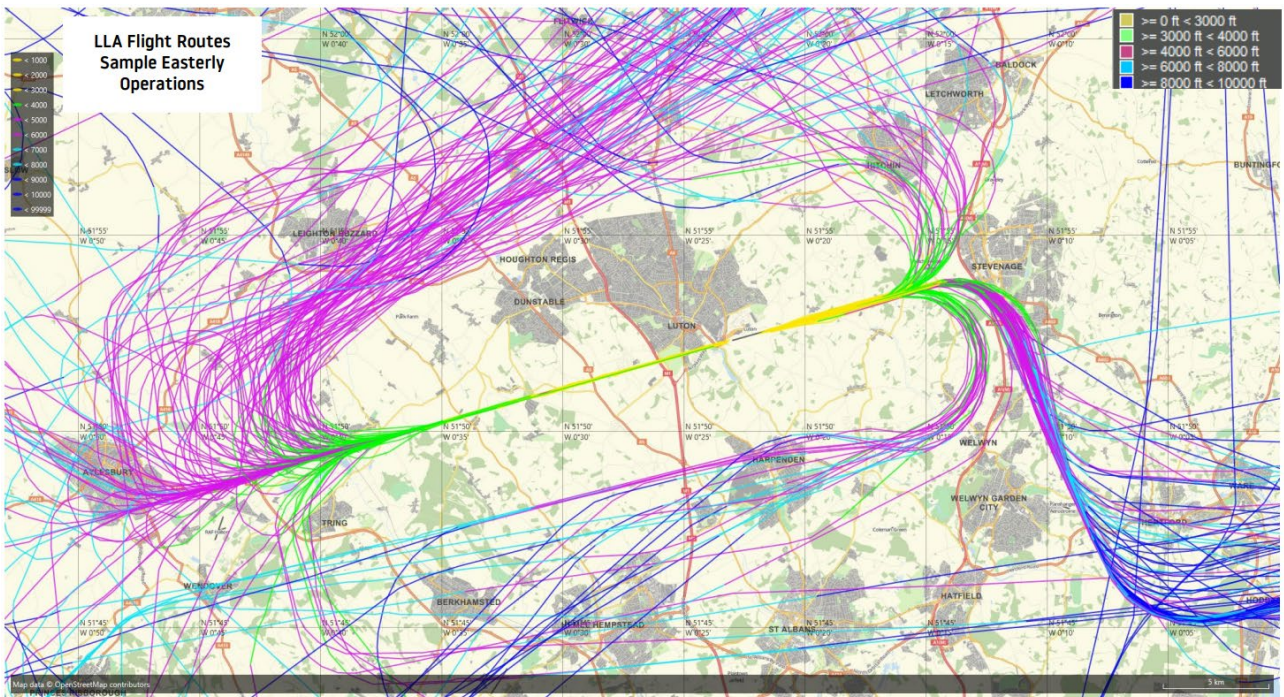


Figure 3-23: 4th Quarter 2022 Altitude Map Easterly Operations

3.7 2023 Quarter 1

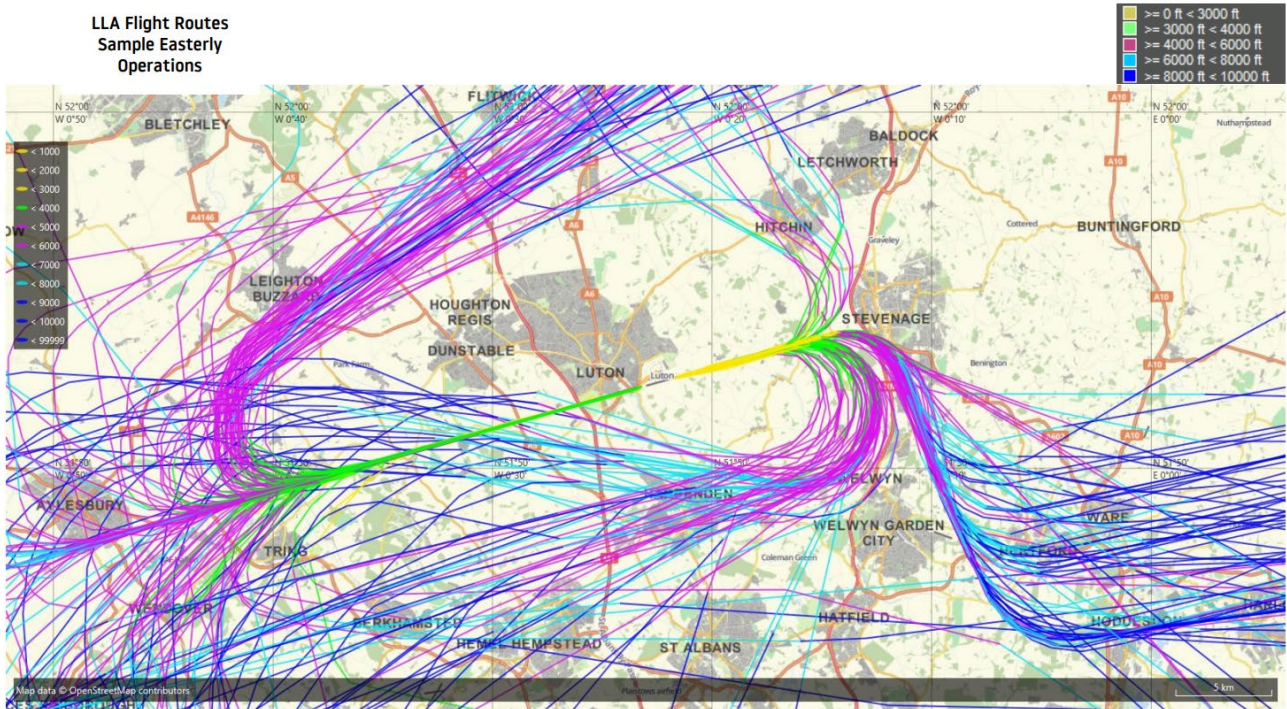


Figure 3-24: 1st Quarter 2023 Altitude Map Easterly Operations