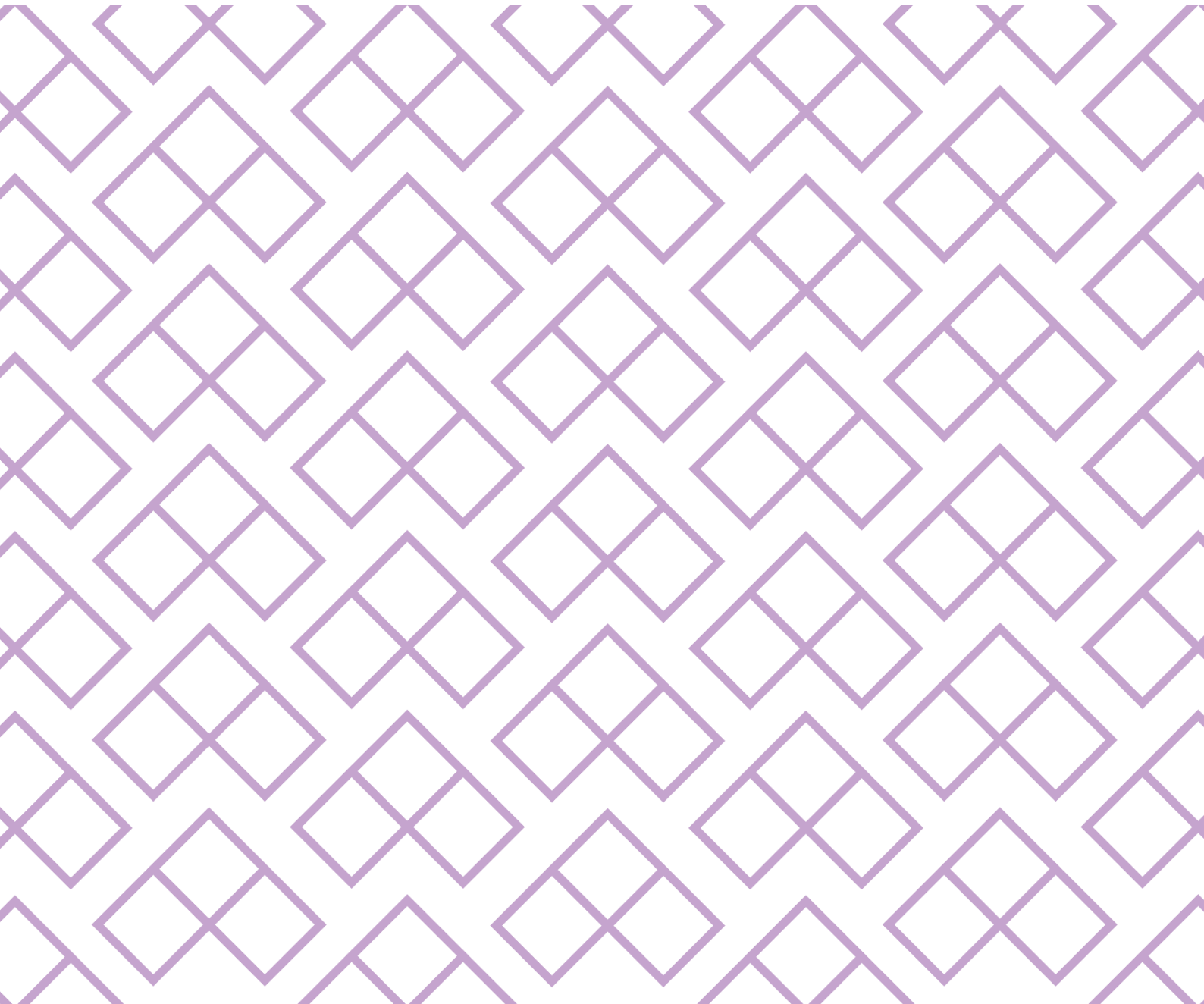


Quarterly Monitoring Report

QUARTER 1 2023



INTRODUCTION

This report provides statistics on aircraft operations at London Luton Airport (LLA) during the period January to March 2023.

KEY MONITORING INDICATORS – 1st QUARTER 2023

Parameter		1 st Quarter 2023	1 st Quarter 2022
Total Passenger Number	↑	3,265,061	1,882,072
Total Aircraft Movements	↑	27,347	21,054
Night Movements (23.00 – 06.59)	↑	3,176	2,310
Early Morning Movements (06.00 – 06.59)	↑	1,035	839
Aircraft Movement and Quota Count limits (per rolling 12-month period)			
Night Quota Movements (<i>9,650 limit</i>)	↑	9,608	4,027
Night Quota Count (<i>3,500 limit</i>)	↑	2,955.625	1497.75
Early Morning Shoulder (<i>7,000 movements</i>)	↑	4,835	3,095
24hr CDA (% achievement)	↑	91%	88%
Day CDA (% achievement)	↑	92%	88%
Night CDA (% achievement)	↑	88%	85%
Track Violations	↑	14	11
Departure Noise Infringements (Day)	↑	3	1
Departure Noise Infringements (Night)	↑	3	0
Noise Monitor Results*			
No. Day (Night) > 80 dB(A)	↑	3 (1)	1 (0)
No. Day (Night) > 75 dB(A)	↑	1,709 (185)	396 (73)
No. Day (Night) > 70 dB(A)	↑	8,518 (946)	4,443 (546)
Night Noise Contour Area (48 dB L _{Aeq, 8h})	↑	21.8 km ²	17.4 km ²
Noise Complaints	↑	3,340	839
Complainants	↑	169	91
Number of New Complainants	↑	73	21
Largest Source of Complaints	-	Arrivals. West	Deps. East
Origin of Concerns	-	Cambridge	St Albans
(>5 Complainants)		Sandy	Luton
		St Albans	Harpenden/
		Harpenden	Wheathampstead
		Luton	
Westerly/Easterly Runway Split (%)	-	76/24	67/33

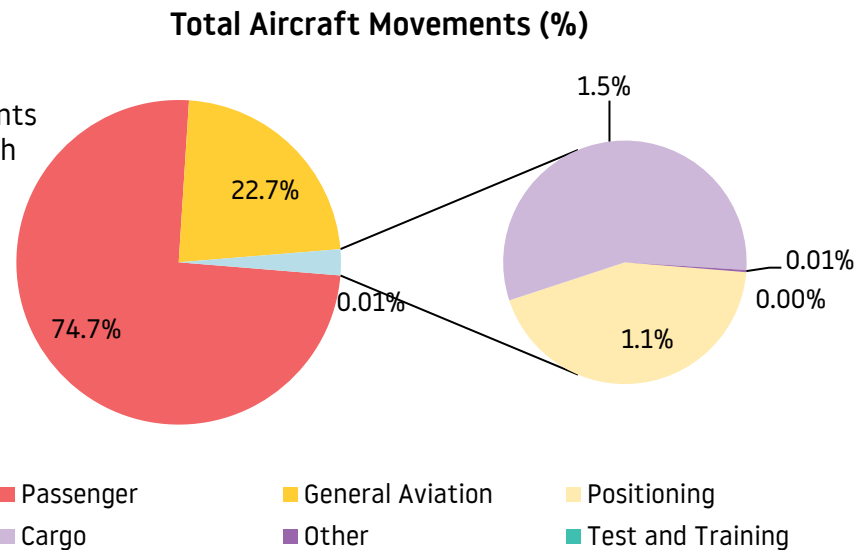
*A fixed noise monitor (NMT10) had power failure between 3rd and 6th February. No noise data was captured from this fixed noise monitor point during this period.

1 AIR TRAFFIC DATA

1.1 Aircraft Movements

There were 27,347 aircraft movements during this quarter (compared with 21,054 for the same period in 2022), an increase of 30%.

This resulted in an average 304 movements per 24 hours (compared to 234 last year).



A breakdown of these movements is shown below:

	Commercial				Non-Commercial					Total
	Cargo	Passenger	Positioning		Military	Official	Other ¹	General Aviation ²	Test & Training	
			Other	STN						
Jan 2023	129	6,382	101	11	0	0	27	1,870	0	8,520
Feb 2023	123	6,499	108	6	0	0	44	1,995	0	8,775
Mar 2023	145	7,553	80	5	0	0	16	2,253	0	10,052
QTR Total	397	20,434	289	22	0	0	87	6,118	0	27,347

1.2 Passenger Statistics

A total of 3,265,061 passengers passed through LLA during the period January to March 2023 (compared with 1,882,072 for the same period last year); 3,246,371 on scheduled flights (99%) and 18,690 on charter flights (1%). This represents 73% increase in passengers and equates to an average 36,278 passengers per 24 hours (compared to 20,939 during the same quarter last year).

	Domestic	EU	Non-EU	Total
Jan 2023	66,859	665,762	244,011	976,632
Feb 2023	86,050	721,104	251,129	1,058,283
Mar 2023	99,376	862,971	267,799	1,230,146
QTR Total	252,285	2,249,837	762,939	3,265,061

* Non-Commercial relates to aircraft not operating for hire or reward.

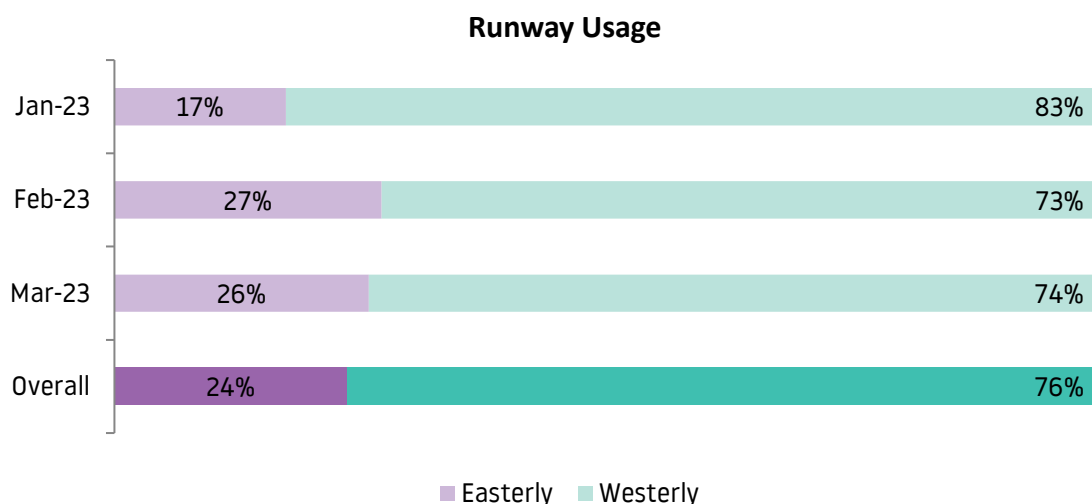
¹ Other relates to flights coming for maintenance and or departing aircraft that have made an unscheduled return to base

² General Aviation incorporates Private Aircraft, Helicopters and Business Jets

1.3 Runway Usage

The direction of operation is determined by wind direction. Aircraft operating in a westerly direction take off towards the west and land from the east. Aircraft operating in an easterly direction take off towards the east and land from the west.

The runway usage split during this period was 24% easterly and 76% westerly (in comparison to a 33%/67% split in the same quarter last year). The monthly breakdown of these statistics is as follows:



1.4 Night Flying Restrictions

On 1st April 2015 London Luton Airport introduced Night Restrictions as part of planning conditions.

These restrictions are put in place to limit and mitigate noise disturbance from aircraft operating at night, to prohibit aircraft of certain types from operating, and to limit the number of occasions on which aircraft may take off or land.

The night flying restrictions contain a 12-month period aircraft movement limit and a 12-month period quota count limit. The quota count (QC) is a points-based system that allocates points to different aircraft types according to the level of noise they produce. The noisier the aircraft type, the higher the points allocated.

1.4.1 Definitions

The 'Night Quota Period'

The 'Night Quota Period' is from 23:30 to 05:59 hours local. During this period the number of aircraft movements (take-off or landing) is restricted, as well as an additional limit on the number of noise QC points.

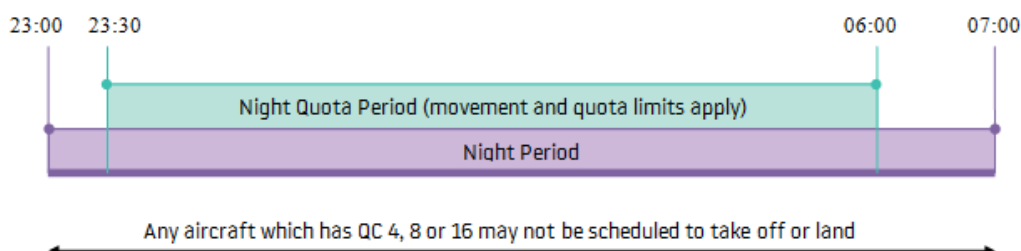
Aircraft are certified by the International Civil Aviation Organisation (ICAO) according to the noise they produce during specific certification tests conducted by the manufacturer. They are classified separately for both take-off and landing. The points are allocated to different aircraft types according to the sound level they produce. The table overleaf details the QC bands identified by the certified noise levels, and gives some typical example aircraft, some of which operate from LLA:

Certificated noise level (EPNdB)	Quota count	Typical aircraft
93 to 95.9	QC 2	Boeing 777-200 Airbus A300-600 Airbus A330
90 to 92.9	QC 1	Airbus A320/A321 Some Boeing 737-800 Boeing 757-200 Boeing 787-8
87 to 89.9	QC 0.5	Airbus A319/A320 Boeing 737-400 Boeing 737-800 Boeing 787-8
84 to 86.9	QC 0.25	Airbus A319/A320 Airbus A321neo Boeing 737-800 Max Dassault Falcon 7X/900/2000
81 to 83.9	QC 0.125	Airbus A320neo Global Express
Less than 81	QC 0	Challenger series (eg CL600) Cessna 525/550

The 'Early Morning Shoulder Period'

The 'Early Morning Shoulder Period' is 06:00 to 06:59 hours local. During this period the number of aircraft movements (take-off or landing) is also restricted in a similar way to the Night Quota Period.

1.4.2 Restrictions at London Luton Airport



1.4.3 Aircraft movement and quota count limits (per 12-month period)

Condition 11(f) requires that the following limits shall not be exceeded for the Night Quota Period (2330 – 0559 hours local):

- (i) Total annual movements by aircraft per 12-month period shall be limited to 9,650;
- (ii) The total annual noise quota in any 12-month period shall be limited to 3,500.

Condition 11(h) requires that the total number of movements by aircraft in any 12-month period shall be limited to 7,000 for the Early Morning Shoulder Period (0600 – 0659 hours local).

The table overleaf provides the aircraft movement and quota count for the last rolling 12-month period. These can be compared with the limits set within the planning conditions.

	Night Quota Period (2330-0559)		Early Morning Shoulder (0600-0659)
	<i>Movements Limited to 9,650 Annually</i>	<i>Quota Count Limited to 3,500 Annually</i>	<i>Movements Limited to 7,000 Annually</i>
April 2022	788	237.000	504
May 2022	984	264.125	494
June 2022	1,023	325.000	442
July 2022	1,101	366.000	415
August 2022	989	327.125	442
September 2022	981	319.500	419
October 2022	1,059	319.375	503
November 2022	447	140.250	303
December 2022	670	207.750	308
January 2023	533	156.125	317
February 2023	508	148.625	333
March 2023	525	144.750	355
QTR Total	1,566	449.500	1,005
<i>Total for preceding 12 months</i>	<i>9,608</i>	<i>2955.625</i>	<i>4,835</i>

1.4.4 Dispensations

In March 2023, LLA started to dispense movements in line with the Section 106 agreement. LLA submitted a Dispensation Policy to the Local Planning Authority to dispense (remove) movements from the night time movement limit, night time QC limit and early morning movement limit.

The table below shows the number of movements dispensed in March 2023, there were no movements dispensed in January and February 2023. These have not been reported in the table in section 1.4.3.

	Night Dispensations
January 2023	0
February 2023	0
March 2023	143
Total	143

The table below also show the reasons for the dispensation, in line with the S106 list of acceptable reasons for dispensation. In March, weather (snow) and Air Traffic Disruption (ATC strikes in France) were reasons for dispensations.

Reason for Dispensation	Number of Dispensations
Weather	18
Passenger Hardship	118
Air Traffic Disruption	5
Diversions	0
Emergencies	2
Total	143

1.5 Day/Night Ratio of Movements - Actual

There were 3,176 night operations during the quarter (compared to 2,310 for the same quarter last year), an average 35 movements per night (compared to 26 last year). Arriving aircraft accounted for 55% of total night movements, relating primarily to the last rotation of Luton based passenger aircraft scheduled to land between 23:00 and midnight local. 66% of total night departures took off between 06:00 – 07:00 hours local. The average ratio of total aircraft operations during the quarter was 88% day / 12% night (in comparison to 89% day / 11% night over the same quarter last year).

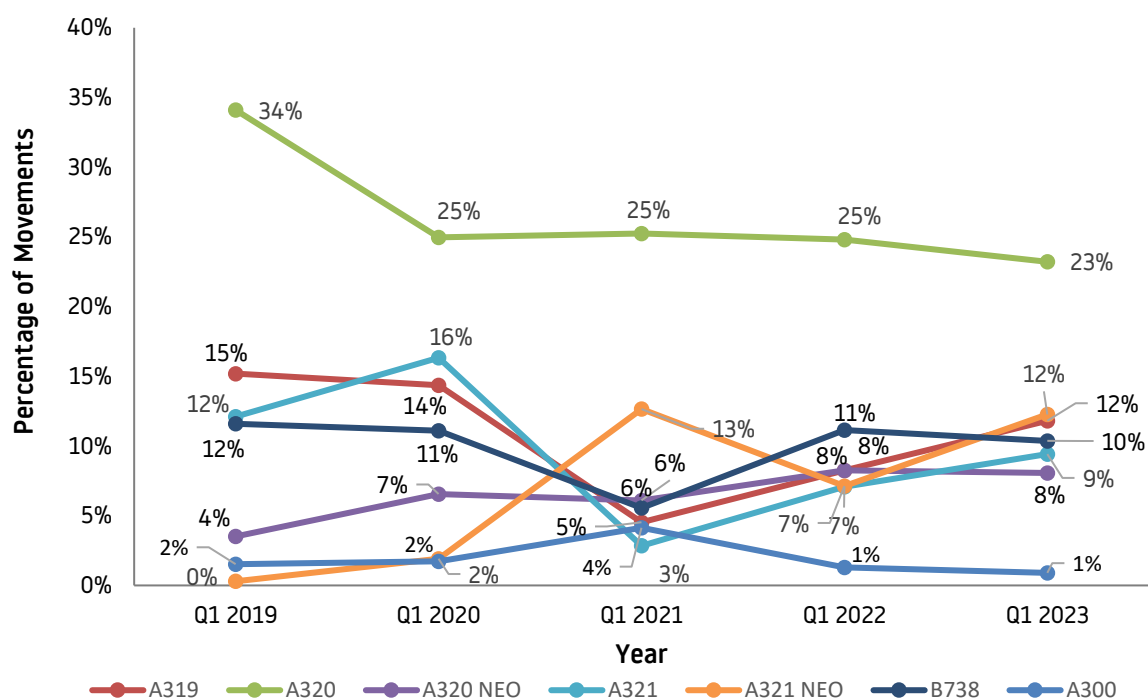
	Day Movements (0700-2259)			Night Movements (2300-0659)				Total	
	Day movements			Night Quota Period (2330-0559)		Early Morning Shoulder (0600-0659)			Total Night Movements (2300 – 0659)
	A	D	Total	A	D	A	D		
Apr 2022	4,305	4,413	8,718	643	145	25	476	1,445	10,163
May 2022	4,842	5,040	9,882	796	188	22	472	1,680	11,562
Jun 2022	4,898	5,108	10,006	801	222	10	432	1,667	11,673
Jul 2022	5,031	5,290	10,321	851	250	4	411	1,718	12,039
Aug 2022	4,816	5,077	9,893	796	193	2	440	1,651	11,544
Sept 2022	4,728	5,043	9,771	788	193	14	405	1,636	11,407
Oct 2022	4,739	4,893	9,632	808	251	14	489	1,772	11,404
Nov 2022	3,499	3,561	7,060	336	111	30	273	914	7,974
Dec 2022	3,971	4,105	8,076	483	187	28	280	1,166	9,242
Jan 2023	3,716	3,812	7,528	411	122	27	290	992	8,520
Feb 2023	3,863	3,919	7,782	384	124	28	305	993	8,775
Mar 2023	4,340	4,521	8,861	518	150	15	340	1,191	10,052
QTR Total	11,919	12,252	24,171	1,313	396	70	935	3,176	27,347
Total for preceding 12 months	52,748	54,782	107,530	7,615	2,136	219	4,613	16,825	124,355

1.6 Day/Night Ratio of Movements – Forecast

2023/2024 Forecast of Aircraft Movements					
*Rounded number	Day Movements (0700 – 2259hrs)	Night Quota Period (2330-0559) Limited to 9,650	Early Morning Shoulder (0600-0659) Limited to 7,000	Total Night Movements (2300-0659hrs)	Total
April 2023	11,121	786	552	1,515	12,636
May 2023	12,071	902	615	1,748	13,819
June 2023	11,651	897	591	1,737	13,388
July 2023	11,524	1,078	639	1,972	13,496
August 2023	10,957	1,069	605	1,925	12,882
September 2023	11,185	868	537	1,661	12,846
October 2023	11,293	882	512	1,617	12,910
November 2023	9,123	440	272	831	9,954
December 2023	10,655	580	337	1,087	11,742
January 2024	9,274	496	414	1,054	10,328
February 2024	8,794	482	376	1,001	9,795
March 2024	10,600	471	328	938	11,538
Total for following 12 months*	128,248	8,951	5,778	17,086	145,334

1.7 Aircraft Movements by Type

The graph below shows the percentage of aircraft movements for the main aircraft types that operated at LLA. For data comparison, the data covers the last five years. During Q1 2023, there was an increase in the utilisation of the newer generation aircraft type, NEO, compared with the same period last year.



2 DEPARTING AIRCRAFT

2.1 Departure Route Analysis

The following table reports the average and total number of departures for each flight route, differentiating between easterly (07) and westerly (25) operations. The night movements quoted below departed between 23:00 and 06:59 hours local.

		Departures										Total
		MATCH/DETLING			COMPTON/RODNI		OLNEY		Other*		Helic opter	
		07	25 Conv	25 RNAV	07	25	07	25	07	25	HELI	
Jan 2023	Daytime	330	3	1,686	218	1,040	90	404	8	27	6	3,812
	Night-time	57	0	240	23	80	9	33	1	2	0	445
Feb 2023	Daytime	543	7	1,508	361	967	127	374	3	19	10	3,919
	Night-time	70	1	238	22	86	13	31	2	2	1	466
Mar 2023	Daytime	613	6	1,770	380	1,062	154	495	6	24	11	4,521
	Night-time	87	0	248	42	90	11	44	0	2	2	526
QTR	Total	1,700	17	5,690	1,046	3,325	404	1,381	20	76	30	13,689
	Daily Average	19	<1	63	12	37	5	15	<1	<1	<1	152

2.2 Departure – Track Keeping

All propeller-driven aircraft with Maximum Take Off Mass (MTOM) over 5,700kg and all jet aircraft leaving London Luton Airport are required to follow specific departure routes known as Noise Preferential Routes (NPRs). An NPR is a corridor three kilometres wide (2km for the RNAV route), within which aircraft are deemed to be flying on track. Once an aircraft has cleared the designated NPR zone Air Traffic Control (ATC) can instruct the pilots to fly a more direct heading towards their destination. This is known as vectoring.

The obligations of NPRs for conventional departure routes (SIDs) cease when a height of 3,000ft AMSL (between 07:00hrs to 23:00hrs local time) and 4,000ft AMSL (during night-time, 23:00 to 06:59 hours local time) has been reached. The obligations of the RNAV1 NPR ceases when a height of 4,000ft AMSL has been reached at all times.

We are working hard to reduce the noise and environmental impact on neighbouring areas. In April 2015 London Luton Airport implemented a Track Violation Penalty Scheme resulting in fines for aircraft that leave the corridor before reaching the required altitude. Using the current Aircraft Noise and Track Monitoring System the airport's Flight Operations Department evaluates and investigates radar tracks with required input from Air Traffic Control (ATC) and airlines. When the aircraft is clearly flying outside the corridor the aircraft is identified as causing a "possible" track violation.

As always, safety prevails and there may be cases which involve vectoring an aircraft sooner than at the NPR height restriction. When there is valid justification for a deviation from the track, the operator in question will be exempt from the fine. Valid justifications include:

- Safety or operational reasons
- Weather avoidance
- Emergencies

* This category relates to Test/Training flights or short positioning flights.

The table below shows track keeping violations over the previous three-month period. The on-track performance for the quarter was 98.3%. This calculation includes deviations for weather and traffic avoidance, as well as deviations classed as violations. The breakdown of these violations is shown in the table below.

	Number of Violations	Total Penalties Collected
January 2023	3	£4,000
February 2023	4	£5,000
March 2023	7	£9,000
QTR	14	£18,000

	Airline or Aircraft Operator	Aircraft Type/Occurrence
January 2023	Airline and privately owned aircraft	B737/1; B738/1 and B752/1
February 2023	Privately owned aircraft	C56X/1; GLF3/1 and GLF6/2
March 2023	Airline and privately owned aircraft	A306/1; B738/2; B752/1; CL60/1; GLEX/1; PC24/1

3 ARRIVING AIRCRAFT

3.1 Arrivals Route Analysis

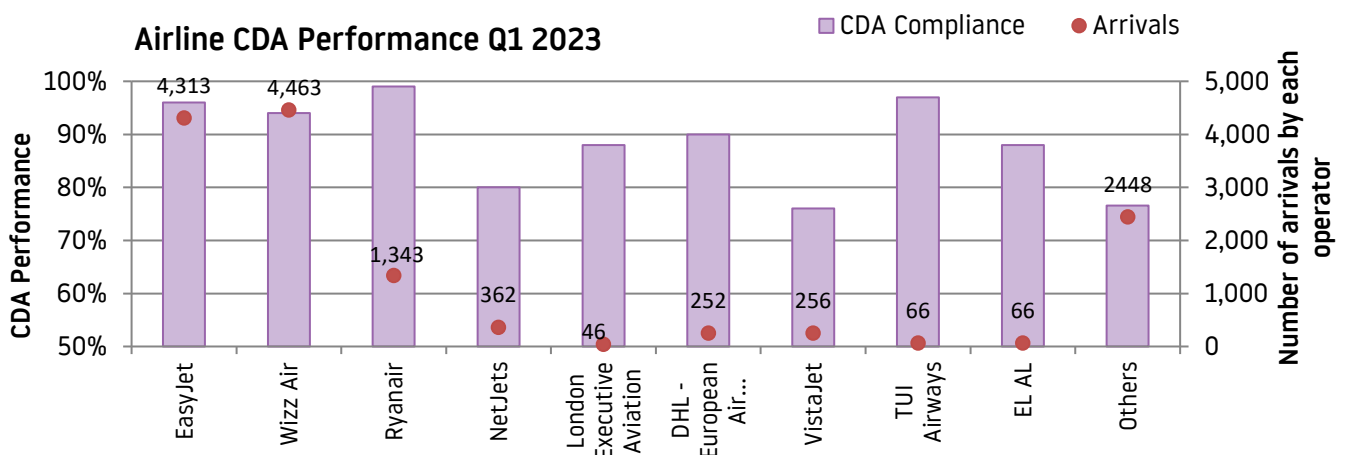
The following table reports the total number of arrivals differentiating between easterly (07), westerly (25) operations and helicopters.

		Arrivals			Total
		07	25	Heli	
January 2023	Daytime	640	3,071	5	3,716
	Night-time	102	444	1	547
February 2023	Daytime	1,082	2,773	8	3,863
	Night-time	127	399	1	527
March 2023	Daytime	1,137	3,197	6	4,340
	Night-time	176	489	0	665
QTR	Total	3,264	10,373	21	13,658
	<i>Daily Average</i>	<i>35</i>	<i>115</i>	<i><1</i>	<i>151</i>

The table below shows the percentage of flights that achieved a Continuous Descent Approach (CDA), which involves continuous descent with no more than one section of level flight greater than 2.5Nm in length following descent from an altitude of 5,000ft.

	All Arrivals			07 Easterly Arrivals			25 Westerly Arrivals		
	% CDA			% CDA			% CDA		
	Total	Day	Night	Total	Day	Night	Total	Day	Night
January 2023	91%	91%	88%	96%	96%	90%	90%	90%	88%
February 2023	92%	92%	88%	93%	94%	83%	91%	92%	89%
March 2023	92%	92%	87%	95%	95%	93%	90%	91%	85%
QTR Total	91%	92%	88%	94%	95%	89%	91%	91%	87%

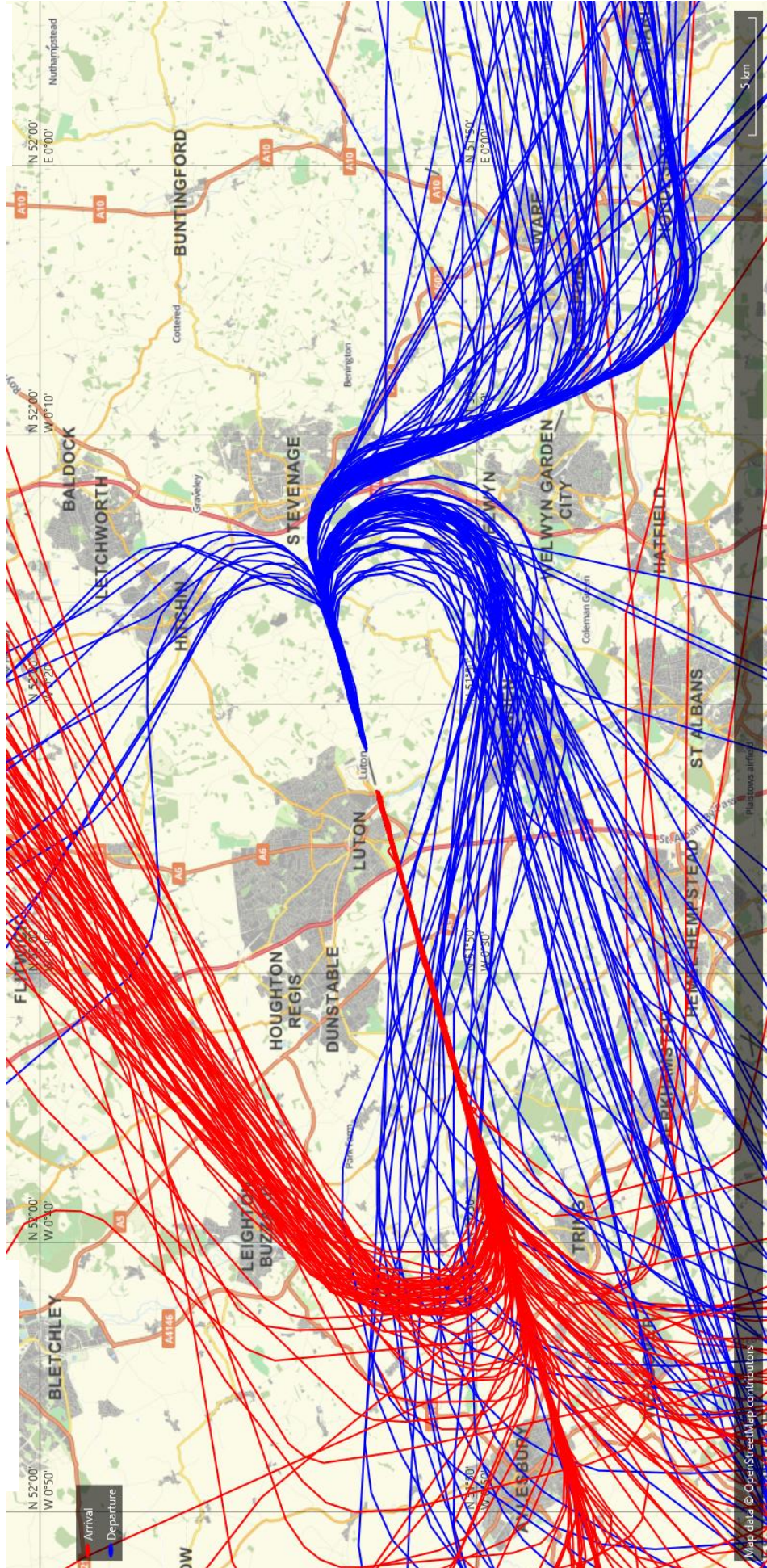
The overall CDA achievement was 91% with several major LLA operators achieving high performance.



The maps overleaf, produced from the Topsonic Aircraft Noise & Track Monitoring System, identify samples of actual flown aircraft tracks operating from LLA (arrivals and departures during both easterly and westerly operations) over a typical 24-hour period within the first quarter of 2023.

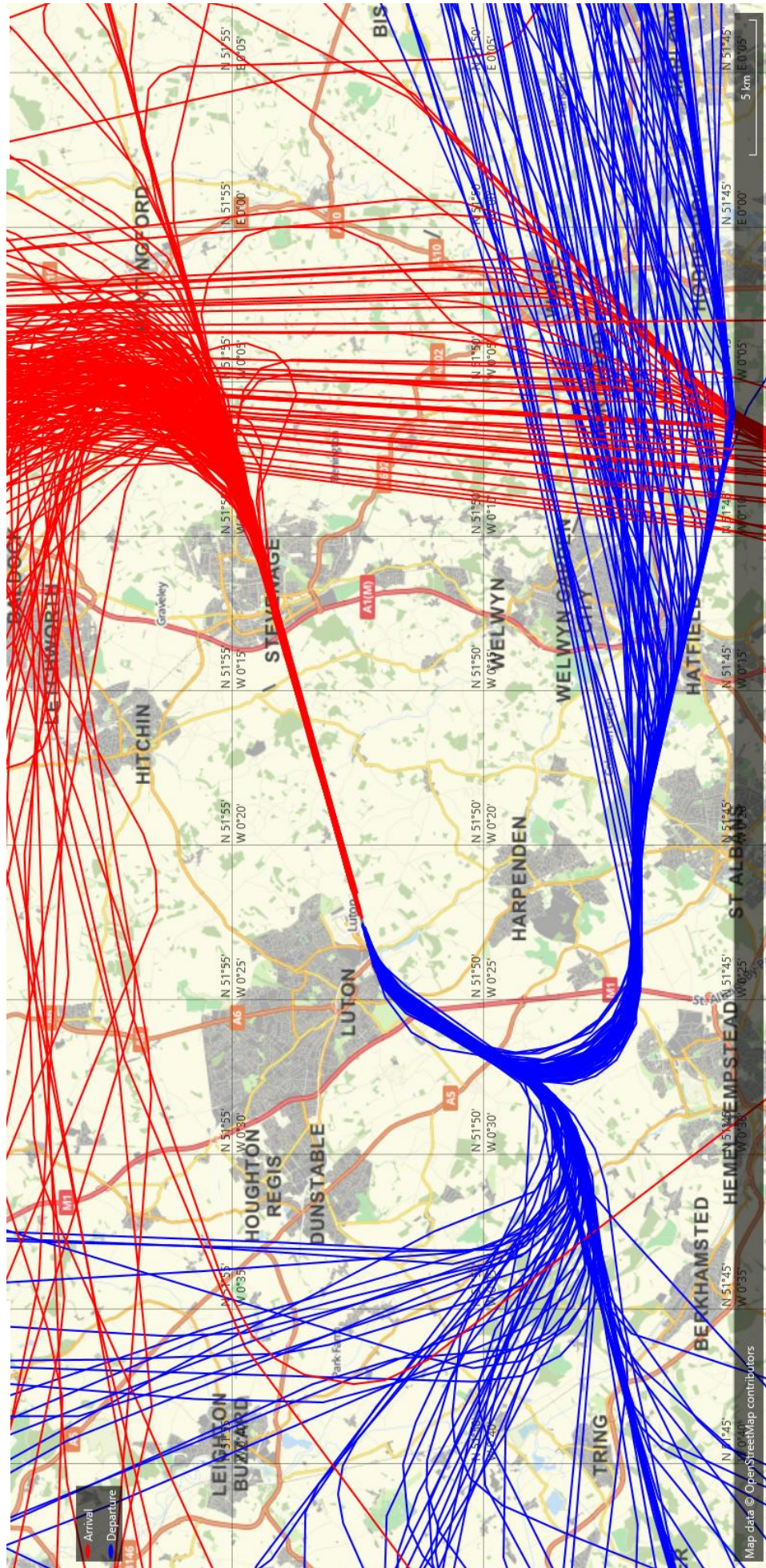
LLA Flight Routes Sample Easterly Operations

Key:
Departures in Blue
Arrivals in Red

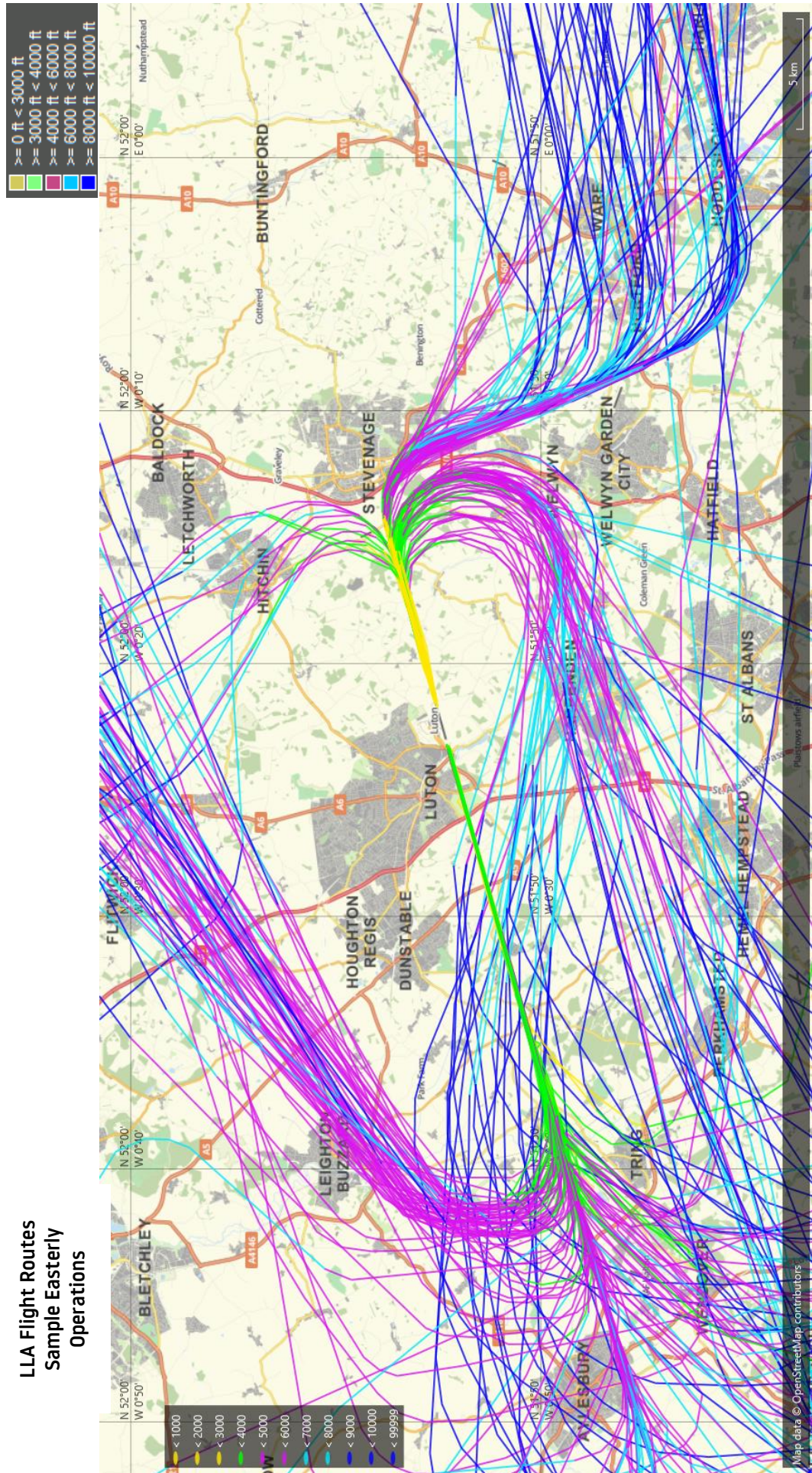


LLA Flight Routes Sample Westerly Operations

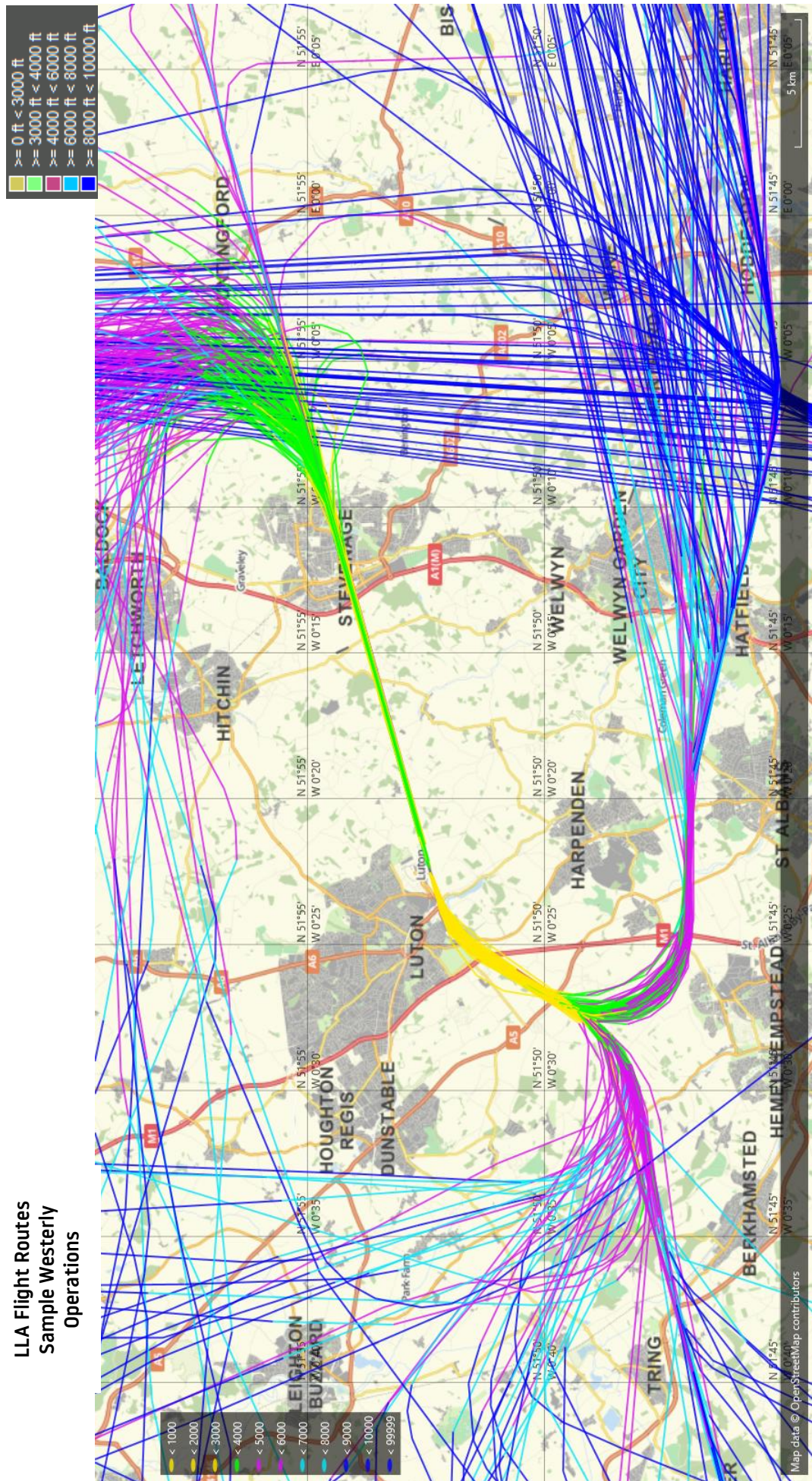
Key:
Departures in Blue
Arrivals in Red



LLA Flight Routes Sample Easterly Operations



LLA Flight Routes Sample Westerly Operations



4 AIRCRAFT NOISE

During the 1st Quarter of 2023, the maximum noise levels less than 79 dB(A) was recorded by 99.7% of correlated departing aircraft.

The maximum noise level of less than 76 dB(A) was recorded by 92.5% of correlated departing aircraft.

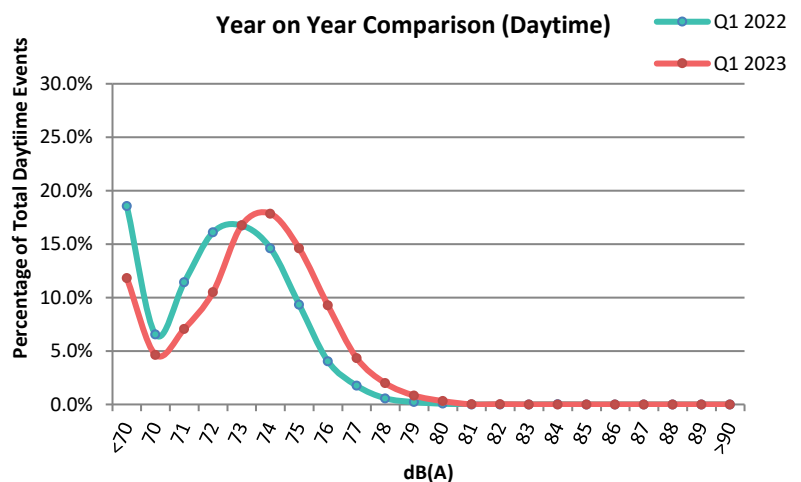
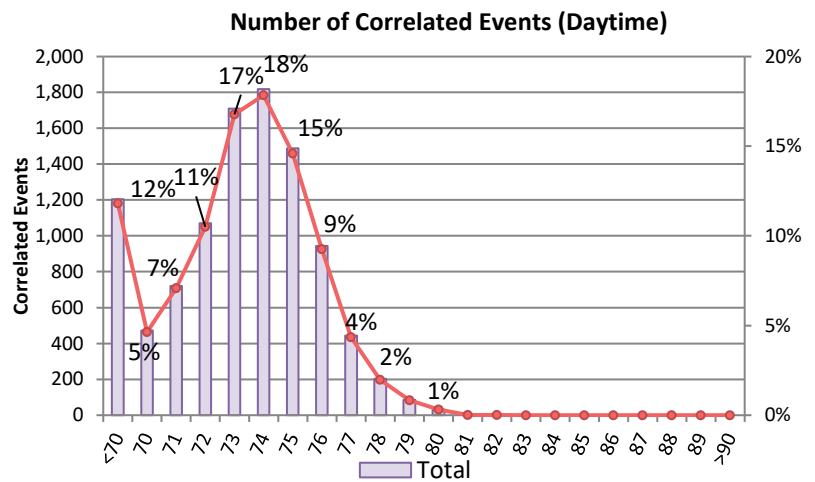
There were six noise violations in Q1 2023. Details of these violations are outlined in Section 4.4.

4.1 Daytime Noise Levels – January to March 2023

The following table identifies daytime noise levels correlated to departing aircraft at the fixed noise monitoring terminals*. *(Any aircraft exceeding the Daytime Noise Violation Limit of 80dB(A), between 07:00 and 22:59 hours local, is fined accordingly)*

	db (A) #	Jan	Feb	Mar	QTR
Number of Correlated Events (Daytime)	<70	371	400	433	1,204
	70	134	161	178	473
	71	200	254	267	721
	72	308	401	362	1,071
	73	456	594	660	1,710
	74	455	637	727	1,819
	75	397	466	625	1,488
	76	241	276	427	944
	77	151	123	169	443
	78	71	45	86	202
	79	36	16	33	85
	80	15	5	12	32
	81	0	0	1	1
	82	0	0	2	2
	83	0	0	0	0
	84	0	0	0	0
	85	0	0	0	0
	86	0	0	0	0
	87	0	0	0	0
	88	0	0	0	0
	89	0	0	0	0
	>90	0	0	0	0
Total		2,835	3,378	3,982	10,195

Rounded Result

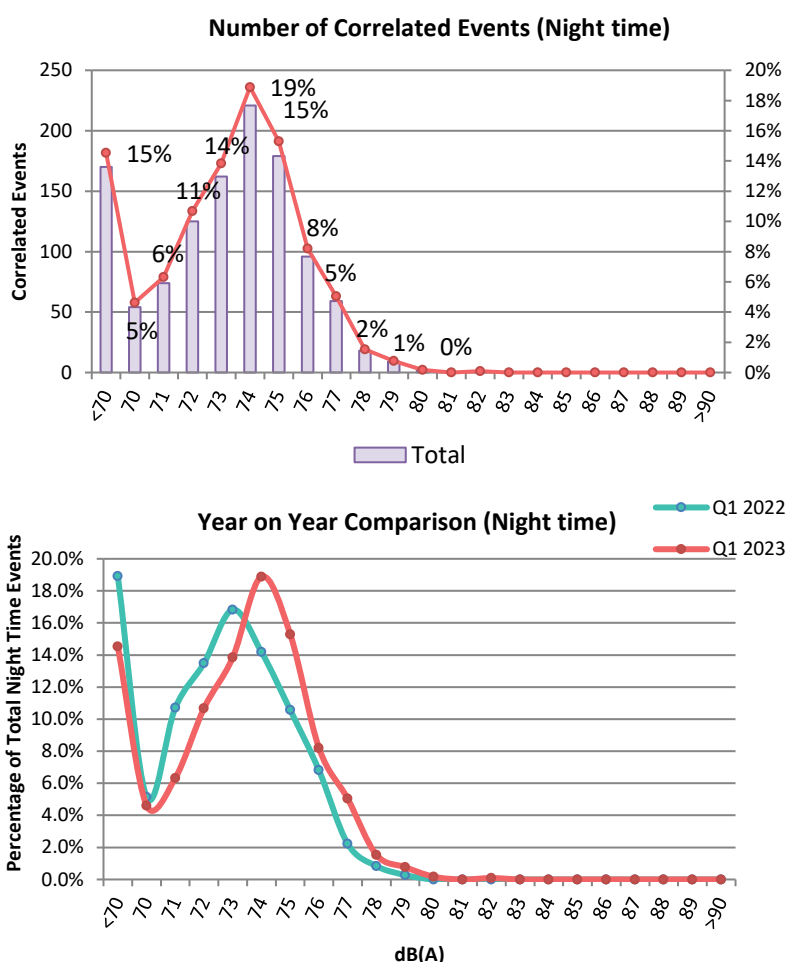


4.2 Night Noise Levels – January to March 2023

The following table identifies the night noise levels correlated to departing aircraft at the fixed noise monitor terminals*. *(Any aircraft exceeding the Night Noise Violation Limit of 79dB(A), between 23:00 hrs and 06:59 hours local, is fined accordingly)*

db (A) #	Jan	Feb	Mar	QTR
<70	58	54	58	170
70	10	19	25	54
71	22	27	25	74
72	32	41	52	125
73	47	63	52	162
74	70	77	74	221
75	46	54	79	179
76	23	27	46	96
77	18	20	21	59
78	7	1	10	18
79	3	1	5	9
80	0	0	2	2
81	0	0	0	0
82	0	1	0	1
83	0	0	0	0
84	0	0	0	0
85	0	0	0	0
86	0	0	0	0
87	0	0	0	0
88	0	0	0	0
89	0	0	0	0
>90	0	0	0	0
Total	336	385	449	1,170

Rounded Result



N.B It should be noted that the detection thresholds for the noise monitoring terminals are set at the lowest level to record the maximum number of aircraft noise events. A number of smaller aircraft types, such as business jets and propeller aircraft, get very close to but do not reach the detection threshold.

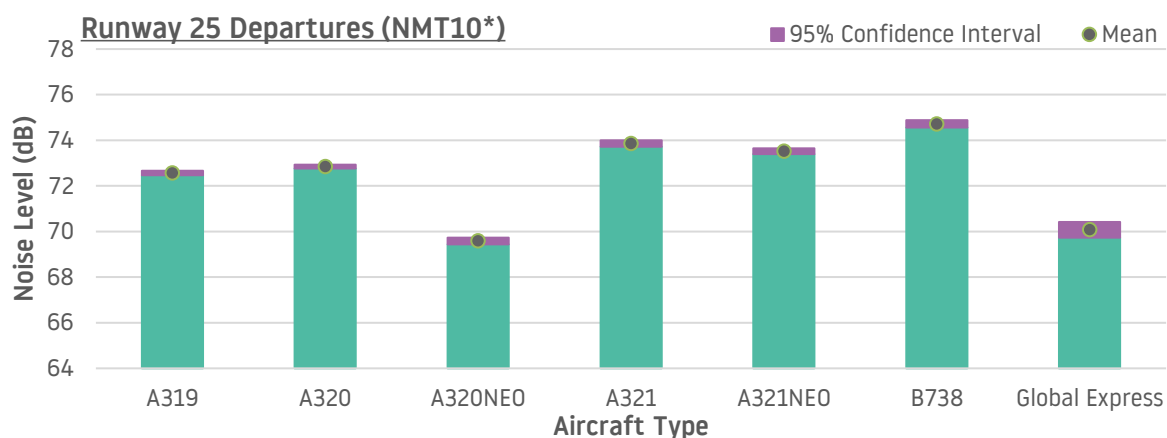
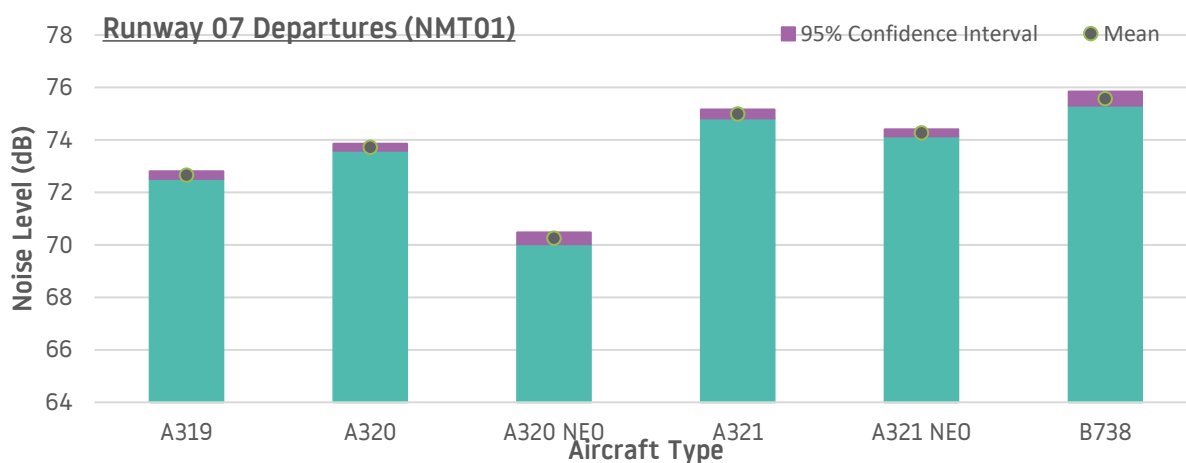
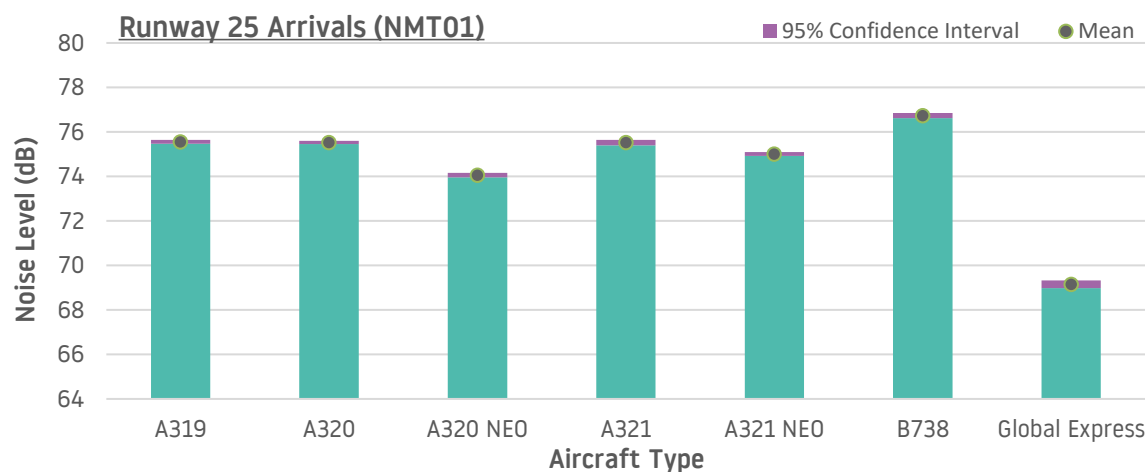
Ambient background noise is also an important factor as specific incidents such as loud road traffic, emergency vehicle sirens, lawn mowers, drills etc. can register noise levels louder than an aircraft overhead. This results in not all aircraft movements being correlated to noise events. Generally, the louder noise events have more certainty of being correlated with aircraft movements.

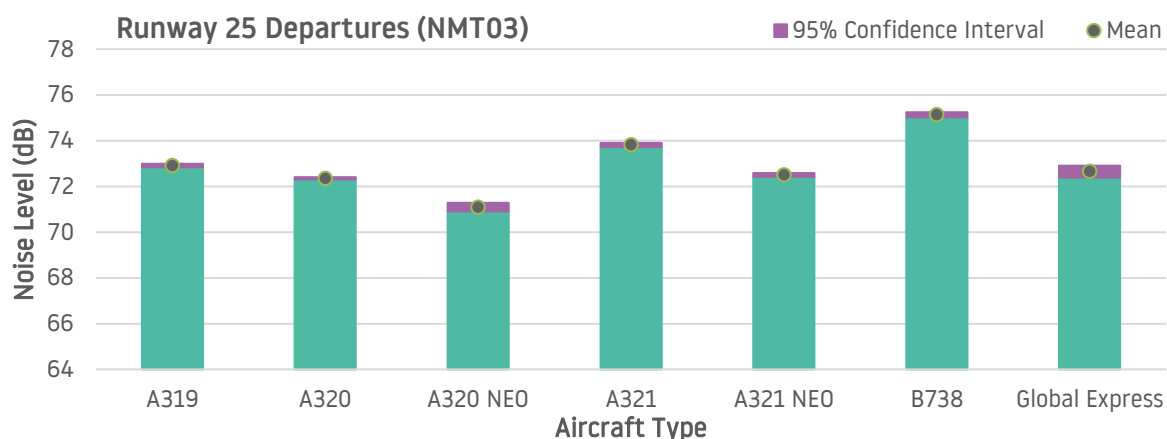
Weather conditions can also affect the number of noise monitoring events recorded in the table; for example, if winds are greater than 10m/s, results from noise monitors will be invalid and therefore will not be considered.

**A fixed noise monitor (NMT10) had power failure between 3rd and 6th February. No noise data was captured from this fixed noise monitor point during this period.*

4.3 Average Noise Monitor results by Aircraft Type (Q1 2023)

The following graphs show the average noise and confidence level (95%) for the three fixed noise monitors for the period January to March 2023. These are also split by the main aircraft types operating at LLA.





The table below shows the sample sizes used for the graphs in this section. For comparative purposes, we recommend a sample size of over 100 results are used. Therefore, only aircraft types with a sample size of over 100 have been shown.

	A306	A319	A320	A320 NEO	A321	A321 NEO	B738	B737 Max 8	Global Express
NMT01 (Arr)	86	1,123	2,232	792	932	1,201	972	34	313
NMT01 (Dep)	28	394	711	231	285	370	327	9	84
NMT10* (Dep)	73	1,040	2,037	672	846	1,091	877	35	218
NMT03 (Dep)	72	1,021	1,917	131	834	956	907	29	158

**The fixed noise monitor NMT02 has been replaced with NMT10.*

NMT10 had power failure between 3rd and 6th February. No noise data was captured from this fixed noise monitor point during this period.

4.4 Noise Violations during Quarter 1 (January to March 2023)

There were six noise violations during the period. Each violation was fined £1,000 at daytime and £2,000 for night period.

	Date/Time (Local)	Aircraft Type	Noise Level
Night	16/02/2023 03:00 hrs	GLF3 (Executive Jet)	81.6 dB(A)
Night	01/03/2023 23:30 hrs	FA7X (Executive Jet)	80.1 dB(A)
Day	03/03/2023 10:37 hrs	C130 (Executive Jet)	81.7 dB(A)
Night	09/03/2023 23:03 hrs	GLF4 (Executive Jet)	79.7 dB(A)
Day	14/03/2023 08:33 hrs	B738 (Commercial Jet)	81.2 dB(A)
Day	26/03/2023 08:02 hrs	B738 (Commercial Jet)	81.6 dB(A)
Total Penalties Collected			£9,000

4.5 Noise Insulation Scheme Update

Our Noise Insulation Scheme aims to assist in reducing the noise for properties in our local communities. The scheme covers both residential and non-residential properties. Depending on any existing insulation in the property, double glazing, secondary glazing and ventilation units and loft insulation can be provided. Rooms eligible for insulation include living rooms, dining rooms, kitchen-diners and bedrooms.

In 2022 a total of 932 properties were contacted, 270 properties accepted, and 116 properties were insulated.

It is a requirement of the scheme that we re-contact those who declined or did not accept noise insulation every five years. In Q1 we have contacted 98 properties that were first contacted in 2018.

In March 2023, the Noise Insulation Sub-Committee met to discuss further eligible properties for 2023 taking into consideration the 2023 forecast contour provided by Bickerdike Allen Partners. The decision was made to contact all residential properties in LU1 – a total of 694 households.

In Q1 we have contacted 200 properties and we have received responses from 25.

5 NOISE CONTOURS

5.1 Night Noise Contours – Q1 2023

5.1.1 Contour Production

Aircraft movement data for use in the contour production has been supplied by LLAOL. The contour production methodology is the same as that used for the 2022 contours, with terrain data allowed for and the contours produced using the INM software (Version 7.0d) with user-defined profiles for the most common aircraft. The validation is based on measured results in 2021 at the fixed noise monitors.

5.1.2 Noise Contour Results

The resulting noise contours are shown in on page 23 at values from 48 to 66 dB LAeq,8h. Contours at 69 and 72 dB LAeq,8h have also been produced but are not individually distinguishable when plotted at the scale of the figure. The area of each noise contour is given in Table 1 below and compared with the values for the previous quarter (October - December 2022), and the equivalent quarter during the previous year (January – March 2022).

Contour Value (dB LAeq,8h)	Contour Area (km ²)		
	Jan – Mar 2022	Oct – Dec 2022	Jan – Mar 2023
48	17.4	26.2	21.8
51	9.2	14.7	12.0
54	5.3	7.7	6.6
57	2.9	4.5	3.8
60	1.5	2.4	1.9
63	0.9	1.2	1.1
66	0.5	0.7	0.6
69	0.3	0.5	0.4
72	0.2	0.3	0.3
W/E Split (%)	68/32	80/20	76/24

Table 1: Area of Night Noise Contours

5.1.3 Aircraft Movements

The aircraft movements for the night noise contours as supplied by LLAOL are summarised in Table 2 below and compared with the movements from the previous quarter and the equivalent quarter in the previous year. Only aircraft types with at least ten movements have been presented. For aircraft types with less than ten movements in a period or types that were not explicitly presented in previous periods, 'n/a' is shown.

INM Aircraft Type	Jan – Mar 2022	Oct – Dec 2022	Jan – Mar 2023
1900D	17	n/a	n/a
737800	355	504	362
757RR	228	234	288
A300-622R	101	94	91
A319-131	92	256	163
A320-211 (ceo)	380	806	516
A320-211 (neo)	218	380	274
A321-232 (ceo)	189	577	296
A321-232 (neo)	244	361	575
A330-301	n/a	13	n/a
BEC58P	n/a	14	n/a
CL600	15	17	10
CL601	45	38	30
CNA208	n/a	16	23
CNA525C	22	19	25
CNA55B	n/a	14	n/a
CNA560XL	28	19	25
CNA680	15	n/a	n/a
CNA750	n/a	11	14
EMB145	32	30	33
F10062	46	63	53
GIV	15	13	18
GV	212	312	276
LEAR35	n/a	10	40
Other	56	47	55
Total	2,310	3,848	3,167

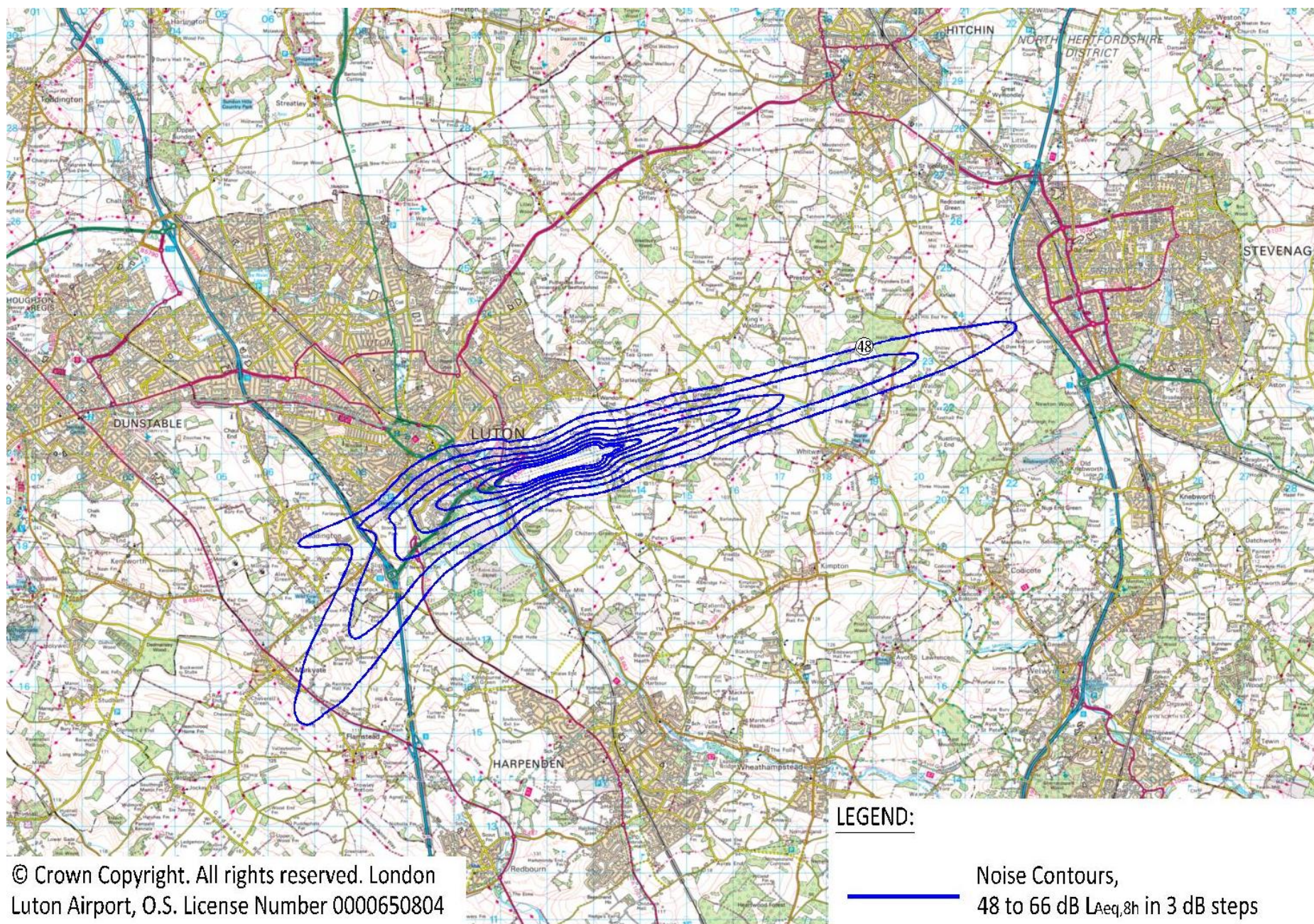
Table 2: Night-time Aircraft Movement Numbers by Aircraft Type

5.1.4 Noise Contour Comparison

With the ongoing recovery from the COVID-19 pandemic, there has been a 37% increase in the total number of movements compared with the same quarter in 2022. The number of arrivals has increased by 47%, whereas departures have only increased by 26%. The overall fleet mix has remained broadly similar, but the proportion of flights by quieter modernised aircraft types has increased from 20% in 2022 Q1 to 27% in 2023 Q1.

The area of the 48 dB(A) noise contour has increased by 25% compared to the same quarter last year, as a result of the increase in movements which is partially offset by the greater use of quieter modernised aircraft.

The number of movements, and therefore the area of the noise contours, has decreased compared to the previous quarter (October - December 2022).



6 COMPLAINTS

6.1 Total Complaints relating to LLA aircraft operations

	1 st QTR 2023	1 st QTR 2022
Total No. of Complaints relating to LLA aircraft operations	3,430	839
No. of Complainants	169	91
No. of General Complaints	210	98
No. of Specific Complaints	3,220	741
Average No. of Complaints per Complainant	20.3	9.2
No. of Aircraft Movements per Complaint	7.9	25.1

A total of 3,430 complaints relating to LLA aircraft operations were received by the Flight Operations Department during the first quarter of 2023. This is compared to 839 complaints received for the same period in 2022. It should be noted that during the first quarter of 2023, 79% of complaints were received from 10 individuals and 24% from one individual.

The monthly breakdown of total complaints relating to LLA aircraft operations is as follows:

Jan 2023 717 complaints (652 Specific Complaints, 65 General Complaints)
Feb 2023 1,010 complaints (950 Specific Complaints, 60 General Complaints)
Mar 2023 1,703 complaints (1,618 Specific Complaints, 85 General Complaints)

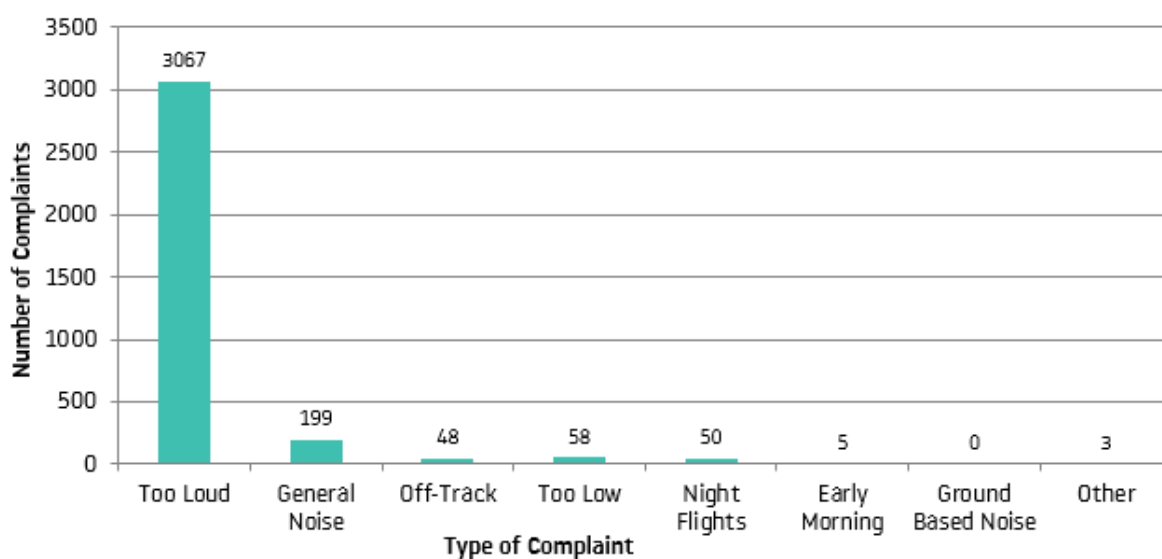
A further 59 complaints not attributable to LLA traffic were received throughout the quarter, compared to 3 complaints for the period January to March 2022.



Out of 169 total complainants, 90 contacted the airport only once meaning, 79 complainants generated 3,340 complaints.

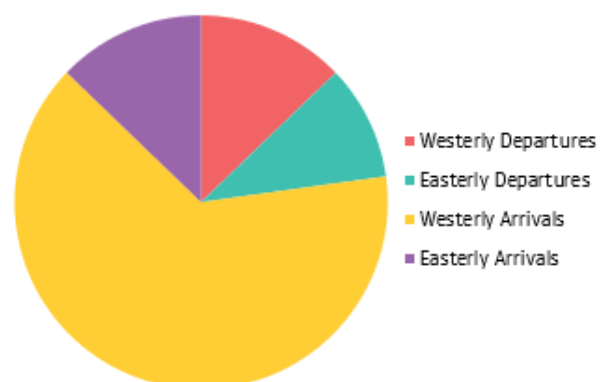
6.2 Type of Complaint

The types of complaint received by the Flight Operations Department from January to March 2023 are listed below.



6.3 Nature of Disturbance

The chart represents the areas of concern reported from specific complaints were regarding aircraft activity during the period January to March 2023.



Within the 408 specific aircraft complaints concerning westerly departures, 397 complaints involved aircraft on the Match/Detling heading, six related to aircraft following Compton/Rodni flight route, five related to aircraft using the Olney route and no complaints were recorded about aircraft following an off-airways routing.

Of the 317 complaints attributed to easterly departures, 307 related to aircraft following the Compton/Rodni flight route and seven aircraft on the Match route. There were three specific complaints relating to the easterly Olney departure. No complaints were recorded about aircraft following an off-airways routing.

In total the Flight Operations Department received 2,456 specific complaints regarding arrivals. 2,049 of these complaints were about westerly arrivals and a further 407 concerning easterly arrivals. These complaints were mostly regarding the new arrivals airspace change implemented in February 2022.

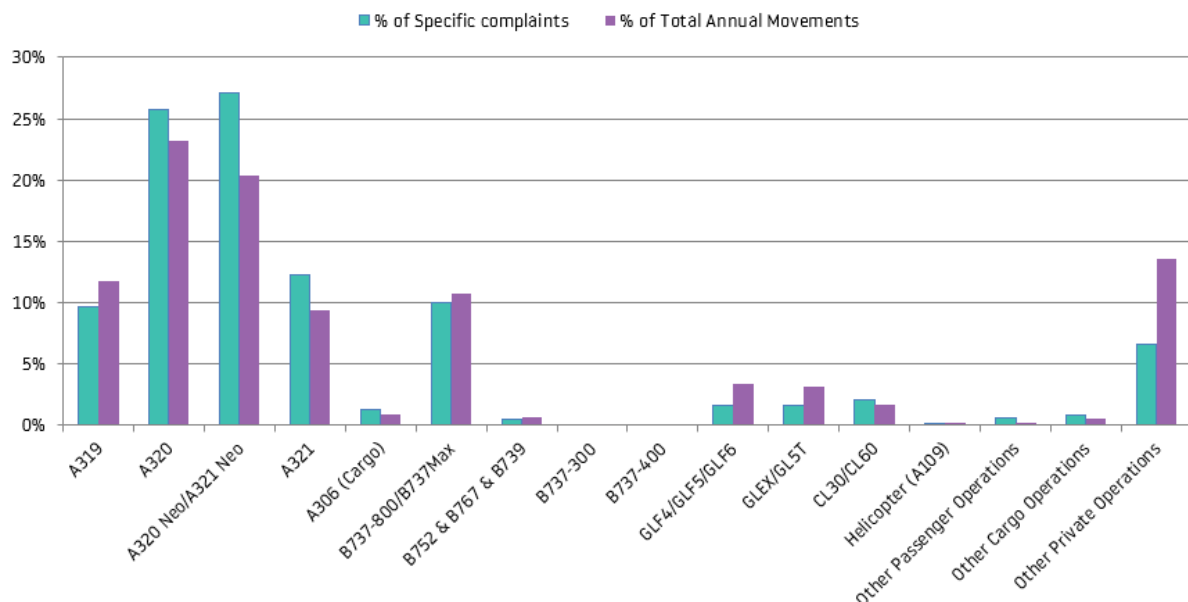
5
Complainants
reported noise
disturbance at night
(compared to **13**
Complainants for the same
Quarter last year)

Departing aircraft accounted for 17% of the specific night complaints and 83% involved arrivals. Cargo flights, involving A306 and B752 aircraft were reported in none of the night complaints, whilst passenger aircraft accounted for 94% of night complaints. Furthermore, 6% of night complaints correlated to executive aircraft.

47 (1%)
Complaints
concerning night noise
disturbance from
LLA operations

6.4 Complaints by aircraft type

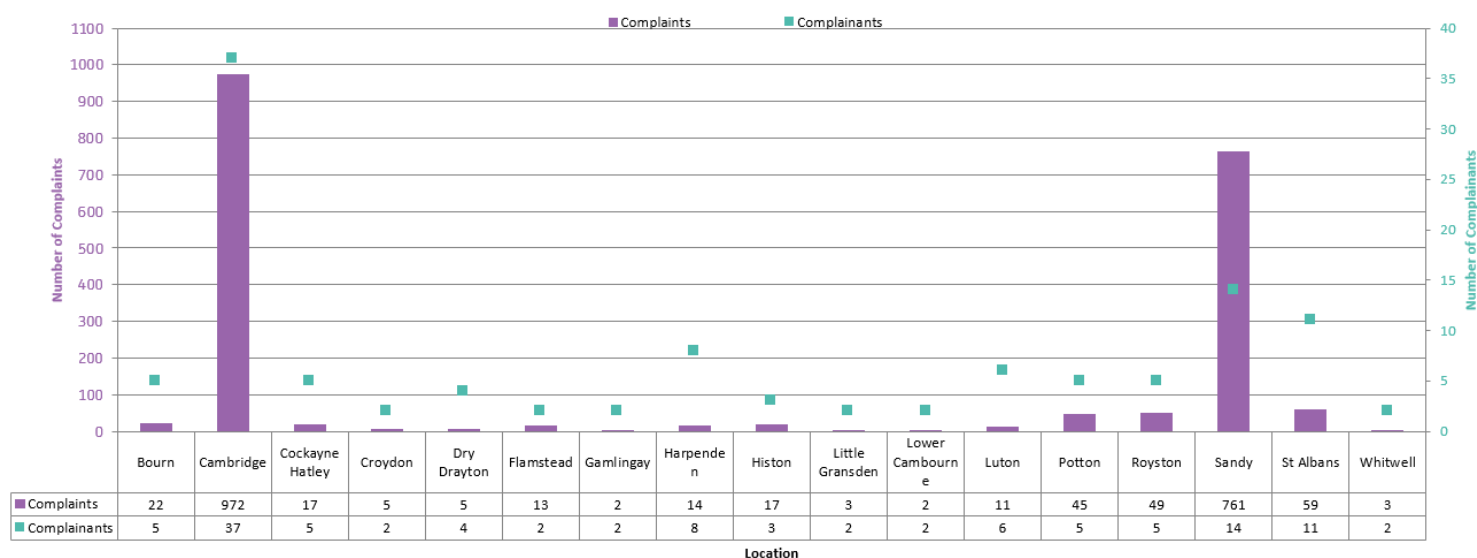
The diagram below shows aircraft types generating specific complaints.



6.5 Origin of Complaints

The chart below identifies the areas around the Airport from which more than one complainant submitted concerns relating to LLA aircraft operations during the period January to March 2023.

The communities with one complainant include: Ayot St Lawrence, Baldock, Berkhamsted, Biggleswade, Buntingford, Caxton, Chevington, Dunstable, Essex, Girton, Great Cambourne, Hemel Hempstead, Henlow, Highfields Caldecote, Impington, Kimpton, Lolworth, London, Lower Dean, Oakington, Papworth Everard, Perry, Redbourn, Sandridge, Stevenage, Tadlow, Upper Cambourne, Waresley, Wheathampstead, Woolmer Green.



6.6 Complaints Analysis

During Quarter 1 there has been an increase in complaints compared to the same quarter last year along with an increase in complainants compared to the same quarter last year. This is thought to be due to a number of reasons:

- The number of complainants has increased which is significantly higher than the same period last year and this is thought to be related to the implementation of the arrivals airspace change which has been the focus of a number of local campaign groups and local media interest.
- Similar to previous quarters in 2022, some individuals are making multiple complaints. In Q1 79% of complaints were received from 10 individuals and 24% from one individual. These particular complainants differ from previous quarters.

6.7 Communication Method

The following table shows the mode of communication used to contact London Luton Airport regarding noise.

Communication Method	% of Total Complaints
Phone	0.3%
Email	40.7%
Travis	59.0%

Any concerns relating to aircraft operations associated with London Luton Airport can also be reported to the Flight Operations Department by the following ways:

Postal Address	Flight Operations Department London Luton Airport Percival House, Percival Way Luton Bedfordshire LU2 9NU
Direct Telephone	(01582) 395382 (24 hours)

6.8 Response Time

The following table shows the time taken to respond to complaints submitted by our local communities. We aim to respond to 97% of concerns within eight days and 98% of concerns within 15 days.

Those complaints with longer response times are usually those requiring further investigation with the help of Air Traffic Control. If this is the case, the individual's complaint will be acknowledged and will state that additional investigation is required which may lengthen the response time.

Number of days	% of Total Complaints
0	60.1%
1	17.7%
2	11.6%
3	7.0%
4	2.7%
5	0.3%
6	0.1%
7	0.1%
8	0.0%
9	0.0%
10	0.0%
11	0.0%
12	0.0%
13	0.0%
14	0.0%
15	0.0%
16	0.0%
16+	0.1%

7 COMMUNITY RELATIONS

7.1 Community Visits to Airport

Invitations are often extended to local residents to visit or meet with the Flight Operations Team for a demonstration of the Aircraft Noise & Track Monitoring System, to discuss specific concerns and to view the specific tracks of LLA aircraft operations in their area.

During quarter 1 of 2023 two community groups from Harpenden were invited to the airport in order to provide an update on airspace change including FASI-S.

7.2 Airport Visits to the Community

The Flight Operations Team held two Public Surgeries during quarter 1 which were; Redbourn in February and Potton in March.

Public surgeries provide residents who are impacted airport operations to speak with members of the Flight Operations team on an appointment basis. There was a good uptake on appointments booked by residents and local councillors.

The Flight Operations team will continue to hold Public Surgeries during 2023. Details of which can be found on our website, which is updated accordingly. (<https://www.london-luton.co.uk/corporate/community/noise/noise-surgeries>)

During quarter 1 the Flight Operations team also visited one resident in Luton who wanted to discuss the Noise Insulation Scheme and was also concerned about the increase in air traffic.