Quarterly Monitoring Report Quarter 1 2021



INTRODUCTION

The purpose of this report is to advise the community of statistics concerning aircraft operations at London Luton Airport (LLA) during the period Jan to Mar 2021.

KEY MONITORING INDICATORS – 1st QUARTER 2021

Parameter		1st Quarter 2021	1st Quarter 2020
Total Passenger Number	Ψ	309,280	2,919,221
Total Aircraft Movements	Ψ	6,047	26,285
Night Movements (23.00 – 06.59)	Ψ	788	2,727
Early Morning Movements (06.00 – 06.59)	Ψ	167	896
Aircraft Movement and Quota Count limits (per rolling 12-month period)	_		
Night Quota Movements (<i>9,650 limit</i>)	Ψ	3,403	8,823
Night Quota Count (<i>3,500 limit)</i>	Ψ	1411.50	2995.00
Early Morning Shoulder (7,000 movements)	Ψ	1,796	5,686
24hr CDA (% achievement)	Ψ	79%	88%
Day CDA (% achievement)	Ψ	79%	88%
Night CDA (% achievement)	Ψ	80%	82%
Track Violations	-	2	2
Departure Noise Infringements (Day)	-	0	0
Departure Noise Infringements (Night)	-	0	0
Noise Monitor Results*			
No. Day (Night) > 80 dB(A)	-	0 (0)	0 (0)
No. Day (Night) > 75 dB(A)	Ψ	68 (9)	661 (83)
No. Day (Night) > 70 dB(A)	$\mathbf{\Psi}$	744 (98)	7,031 (864)
Night Noise Contour Area (48 dB L _{Aeq, 8h})	Ψ	9.1km ²	28.1 km ²
Noise Complaints	Ψ	1,075	1,368
Complainants	Ψ	54	117
Number of New Complainants	Ψ	13	20
Largest Source of Complaints	-	Deps. West	Deps. West
Origin of Concerns	-	Harpenden	St Albans
(>5 Complainants)		Luton	Harpenden
		St Albans	Wheathampstead
			Luton
			Hitchin
Westerly/Easterly Runway Split (%)	-	63/37	91/9

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^{*}It should be noted that due to the power failure at NMTO2, some data was not collected in Quarter 1.

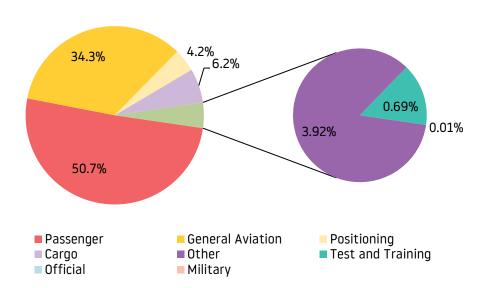
1 AIR TRAFFIC DATA

1.1 Aircraft Movements

There was a total of 6,047 aircraft movements during this quarter (compared with 26,285 for the same period in 2020), decrease of 77%.

This resulted in an average 67 movements per 24 hours (compared to 289 last year).

Total Aircraft Movements (%)



A breakdown of these movements is shown below:

		Commer			Non-Commercial					
Cargo	Passenger	Positi	ioning	Military	Official	Other ¹	General Aviation ²	Test & Training	Total	
			Other	STN				AVIALIUII	Training	
Jan 2021	139	1,121	143	0	0	0	65	680	2	2,150
Feb 2021	122	857	51	1	0	0	75	623	10	1,739
Mar 202	. 114	1,090	54	2	0	0	97	771	30	2,158
QTR Tota	l 375	3,068	248	3	0	0	237	2,074	42	6,047

1.2 Passenger Statistics

A total of 309,280 passengers passed through LLA during the period January to March 2021 (compared with 2,919,261 for the same period last year), 309,045 on scheduled flights (99.9%) and 235 on charter flights (0.1%). This represents a decrease in passengers of 89.4% and equates to an average 3,436 passengers per 24 hours (compared to 32,080 during the same quarter last year).

	Domestic	EU	Non-EU	Total
Jan 2021	2,101	37,902	75,363	115,346
Feb 2021	2,861	29,135	62,373	94,369
Mar 2021	6,668	37,388	55,509	99,565
QTR Total	11,630	104,425	193,225	309,280

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

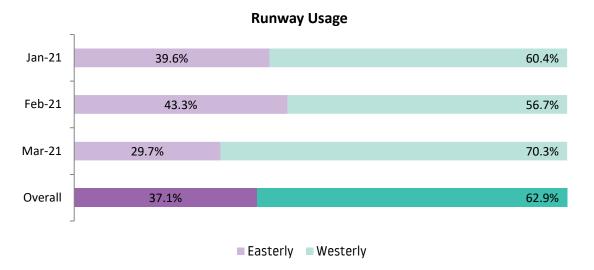
¹ Other relates to flights coming for maintenance and or departing aircraft that has made an unscheduled return to base

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 37% easterly and 63% westerly (compared to 9.5% / 90.5% for the same quarter last year). The breakdown of these statistics, on a monthly basis, is as follows:



1.4 Night Flying Restrictions

As from 1st April 2015 London Luton Airport introduced new Night Restrictions as part of the planning conditions.

These restrictions have been put in place to limit and mitigate noise disturbance from aircraft operating at night, to prohibit aircraft of certain types from operating, as well as limiting 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 how noisy they are. 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 which period the number of aircraft movements (take-off or landing) is restricted, as well as an additional limit on 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 then allocated to different aircraft types according to how noisy they are. 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:

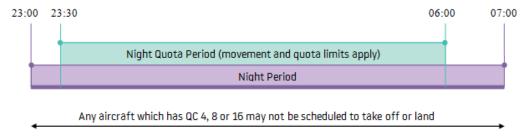
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Certificated noise level (EPNdB)	Quota count	Typical aircraft
93 to 95.9	QC 2	Boeing 777-200 Airbus A300-600 Airbus A330
90 to 92.9	QC 1	Airbus A320/A321 Some Boeing 737-800 Boeing 757-200 Boeing 787-8
87 to 89.9	QC 0.5	Airbus A319/A320 Boeing 737-400 Boeing 737-800 Boeing 787-8
84 to 86.9	QC 0.25	Airbus A319/A320 Global Express Dassault Falcon 7X/900/2000
Less than 84	QC O	Airbus A320neo BAe ATP 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 for the Night Quota Period (2330 – 0559) the following limits shall not be exceeded:

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

The table overleaf provides the aircraft movement and quota count for the period January to March 2021, and shows total movements and noise quota per 12 month period and compares those against the limits set within the planning conditions.

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	_	ota Period -0559)	Early Morning Shoulder (0600-0659)
	Movements Limited to 9,650 Annually	Quota Count Limited to 3,500 Annually	Movements Limited to 7,000 Annually
April 2020	144	98.00	3
May 2020	175	97.75	19
June 2020	238	110.25	30
July 2020	405	152.25	268
August 2020	565	191.50	511
September 2020	494	163.25	416
October 2020	327	126.50	242
November 2020	205	92.25	66
December 2020	283	113.50	74
January 2021	224	96.00	66
February 2021	150	78.50	45
March 2021	193	91.75	56
QTR Total	567	266.25	167
Total for preceding 12 months	3,403	1411.50	1,796

1.5 Day/Night Ratio of Movements - Actual

There were 788 night operations during the quarter (compared to 2,727 for the same quarter last year), an average 9 movements per night (compared to 30 last year). Arriving aircraft accounted for 53% of total night movements, relating primarily to the last rotation of Luton based passenger aircraft scheduled to land between 23:00 hours local and midnight. 39% of total night departures took off between 06:00 – 07:00 hours local in the morning. The average ratio of total aircraft operations during the quarter was 87% day / 13% night (in line with the same quarter last year).

		/ Movemo 1700-225		Night Movements (2300-0659)				9)	
	Da	y moveme	ents	Night Quota Period (2330-0559) Sho			<i>1orning</i> 0600-0659)	Total Night Movements	Total
	Α	D	Total	Α	D	Α	D	(2300 - 0659)	
Apr 2020	276	306	582	83	61	2	1	151	733
May 2020	520	565	1,085	118	57	8	11	197	1,282
Jun 2020	760	849	1,609	169	69	11	19	274	1,883
July 2020	2,710	2,712	5,422	293	112	6	262	759	6,181
Aug 2020	3,928	3,852	7,780	440	125	1	510	1,219	8,999
Sept 2020	3,260	3,184	6,444	368	126	7	409	1,000	7,444
Oct 2020	2,315	2,253	4,568	229	98	5	237	654	5,222
Nov 2020	936	957	1,893	129	76	5	61	289	2,182
Dec 2020	1,476	1,512	2,988	185	98	4	70	394	3,382
Jan 2021	917	924	1,841	140	84	4	62	309	2,150
Feb 2021	767	761	1,528	95	55	10	35	211	1,739
Mar 2021	928	962	1,890	127	66	7	49	268	2,158
QTR Total	2,612	2,647	5,259	362	205	21	146	788	6,047
Total for preceding 12 months	18,793	18,837	37,630	2,376	1,027	70	1,726	5,725	43,355

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1.6 Day/Night Ratio of Movements - Forecast

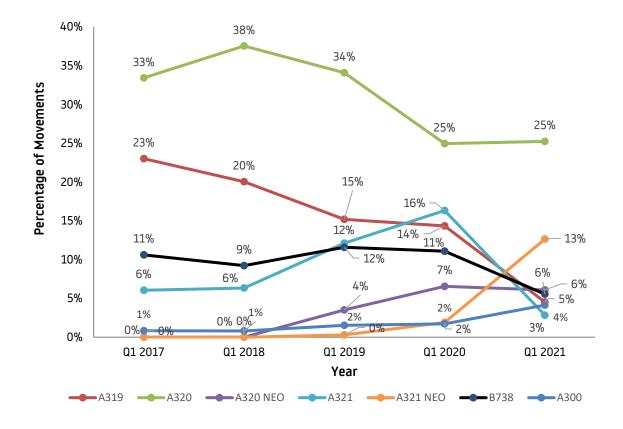
As a result of COVID-19 forecasts are uncertain and forecasts change based on the number of COVID cases in other countries and the UK Foreign and Commonwealth Office's advice.

		2020 / 2021 Fore	cast of Aircraft M	lovements	
	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 2021	10,958	772	550	1,497	12,455
May 2021	11,859	889	614	1,731	13,590
June 2021	11,424	894	589	1,732	13,156
July 2021	11,307	1,074	637	1,967	13,274
August 2021	10,786	1,069	604	1,925	12,711
September 2021	10,978	867	538	1,663	12,641
October 2021	11,095	873	512	1,605	12,700
November 2021	8,748	430	268	816	9,564
December 2021	10,199	569	335	1,071	11,270
January 2022	8,890	489	413	1,044	9,934
February 2022	8,402	472	374	988	9,390
March 2022	10,123	463	327	929	11,052
Total for following 12 months*	124,769	8,861	5,761	16,968	141,737

^{*}Rounded number

1.7 Aircraft Movements by Type

The graph below shows the percentage of aircraft movements for our main aircraft types. The data goes back 5 years for data comparison purposes.



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2 DFPARTING AIRCRAFT

2.1 Departure Route Analysis

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

	Departures							res				
			MATCH/ DETLING		СОМР	PTON	OLNEY		Other*		Helic opter	Total
		07	25 Conv	25 RNAV	07	25	07	25	07	25	HELI	
Jan 2021	Daytime	232	12	344	87	137	37	44	4	9	0	906
Jan 2021	Night-time	36	2	63	15	15	6	24	0	1	0	162
Feb 2021	Daytime	230	4	283	68	70	27	57	7	7	0	753
Len 2021	Night-time	31	1	36	5	8	6	22	0	0	0	109
May 2021	Daytime	160	0	361	78	189	41	77	11	21	1	939
Mar 2021	Night-time	20	0	63	4	21	9	22	0	1	0	140
	Total	709	19	1,150	257	440	126	246	22	39	1	3,009
QTR	Daily Average	8	<1	13	3	5	1	3	<1	<1	<1	33

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). The obligations of NPRs for conventional SIDs cease when a height of 3,000ft AMSL (between 07:00hrs to 23:00hrs local time) and 4,000ft AMSL (during night time, 23:00hrs to 06:59hrs 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. An NPR is a corridor 3 kilometres wide (2km for the RNAV route), within which aircraft are deemed to be flying on track. Once aircraft have 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.

In April 2015 London Luton Airport implemented a Track Violation Penalty Scheme in connection with the planning conditions. Using the current Aircraft Noise and Track Monitoring System the Airport's specialist Flight Operations Department evaluates the radar tracks and investigates with required input from ATC and airlines. Where 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. If there is valid justification that could explain the deviation from the track, then the operator causing it will be exempt from the fine. Valid justifications include:

- Safety or operational reasons
- Weather avoidance
- Emergencies

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

The table below shows track keeping violations over the previous 3-month period. The on-track performance for the quarter was 97.5%. This calculation includes deviations for weather, traffic avoidance and those classed as violations. The breakdown of the violations is shown in the table below.

	Number of Violations	Total Penalties Collected
Jan 2021	1	£1,000
Feb 2021	0	-
Mar 2021	1	£1,000
QTR	2	£2,000

	Airline or Aircraft Operator	Aircraft Type/Occurrence
Jan 2021	Privately owned aircraft	H25+
Feb 2021	-	-
Mar 2021	Privately owned aircraft	LJ60

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3 ARRIVING AIRCRAFT

3.1 Arrivals Route Analysis

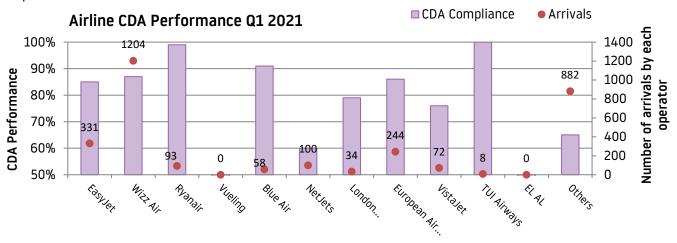
The following table reports the total number of arrivals differentiating between easterly (07), westerly (25) operations and helicopters between 23:00 hrs and 06:59 hrs.

		ļ.	rrivals		
		07	25	Heli	Total
Jan 2021	Daytime	379	537	0	916
Jan 2021	Night-time	53	106	0	159
Feb 2021	Daytime	335	429	0	764
Feb 2021	Night-time	41	67	0	108
Mar 2021	Daytime	281	634	2	917
Mar 2021	Night-time	36	128	0	164
OTD	Total	1,125	1,901	2	3,028
QTR	Daily Average	12	21	<1	34

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 5000ft.

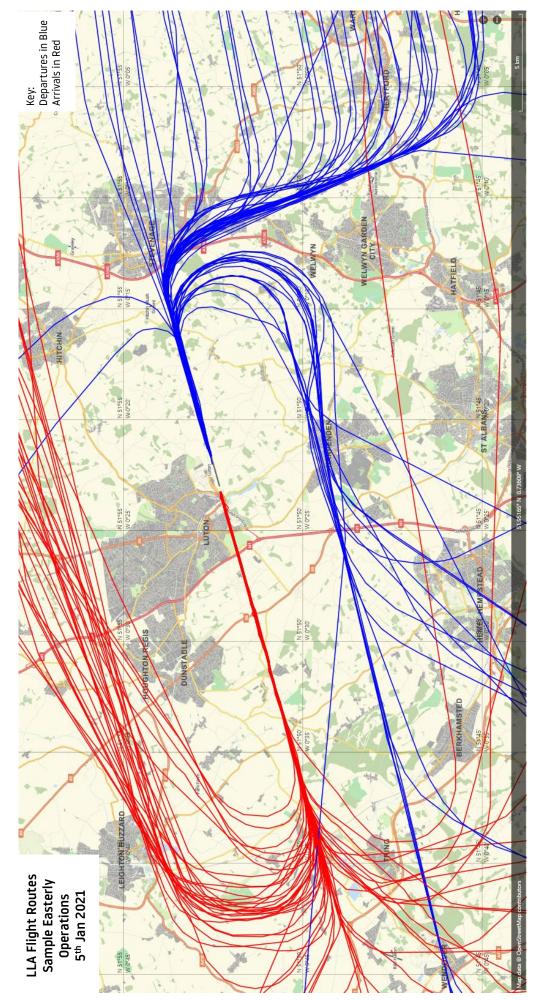
	l A	All Arrival	S	07 Ea	isterly Ar	rivals	25 Westerly Arrivals			
	% CDA			% CDA % CDA				% CDA		
	Total	Day	Night	Total	Day	Night	Total	Day	Night	
Jan 2021	82%	83%	77%	82%	84%	75%	81%	82%	78%	
Feb 2021	81%	80%	85%	78%	79%	73%	83%	81%	94%	
Mar 2021	75%	75%	79%	73%	76%	58%	76%	74%	87%	
QTR Total	79%	79%	80%	79%	80%	70%	80%	79%	85%	

The overall CDA achievement was 79% with several major LLA operators achieving high performance.

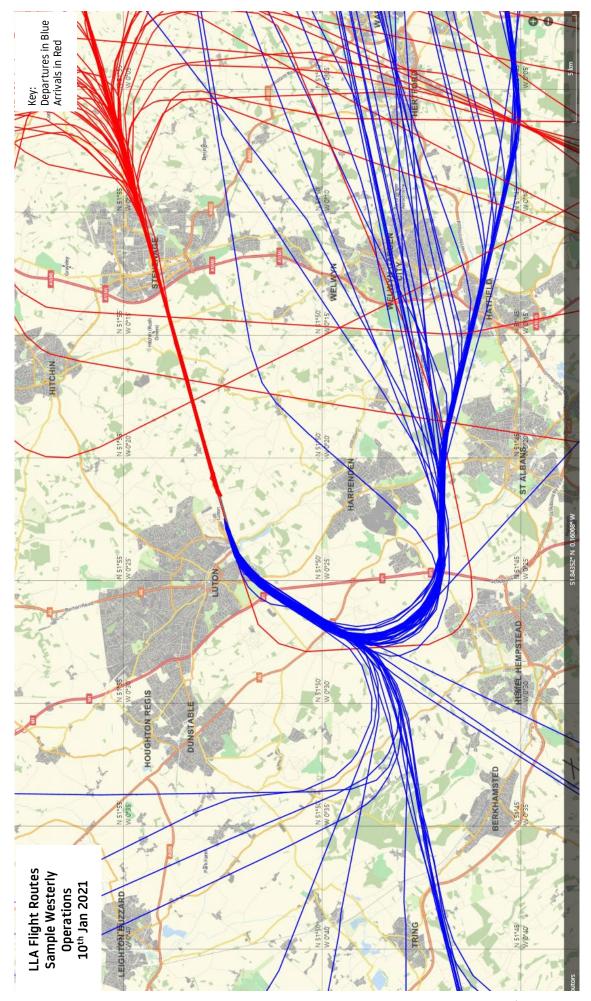


The maps overleaf, produced from the Topsonic Aircraft Noise & Track Monitoring System, identify samples of actual flown aircraft tracks operating from LLA (arrivals and departures during both easterly and westerly operations) for a typical 24-hour period within the first quarter of 2021.

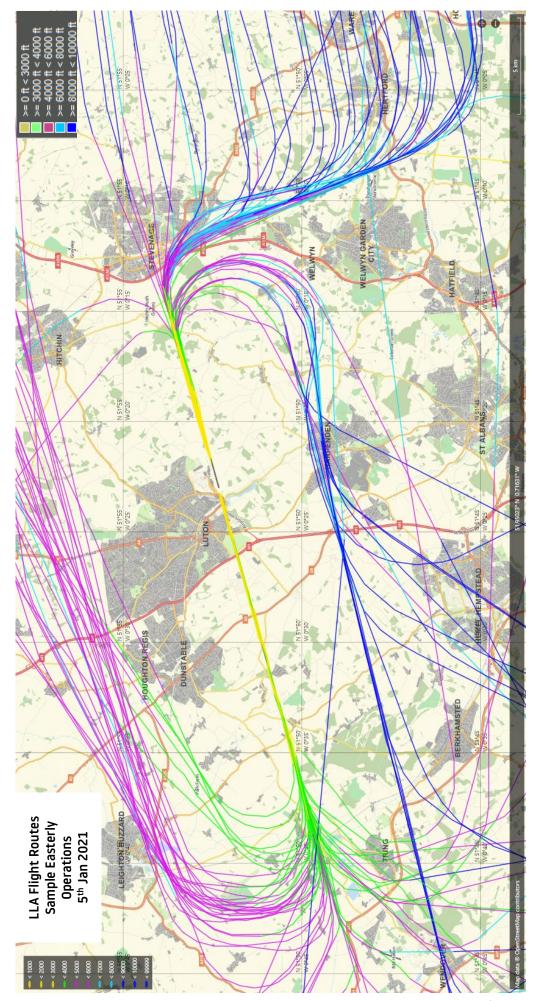
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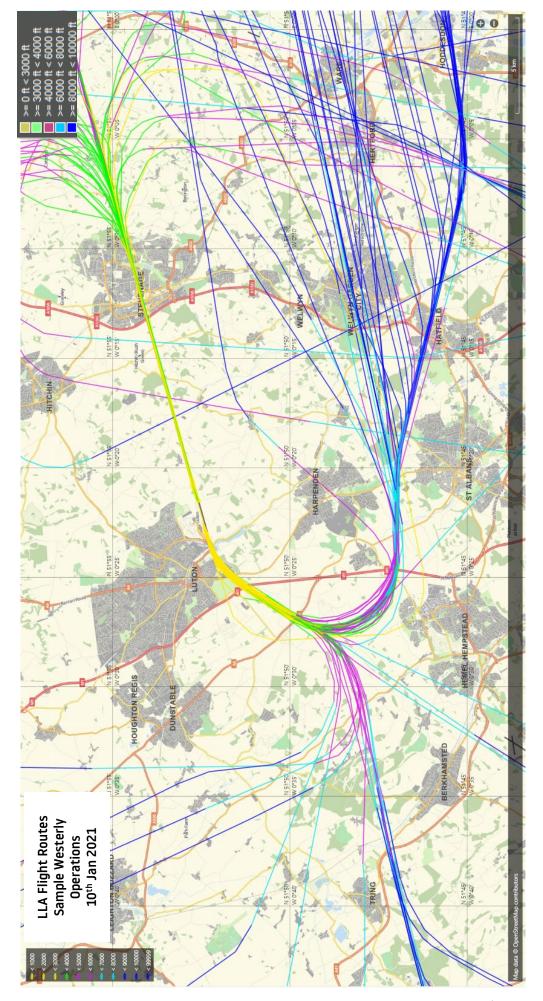
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4 AIRCRAFT NOISE

During the 1st Quarter of 2021, the maximum noise levels less than 79 dB(A) was recorded by 99.9% of correlated departing aircraft.

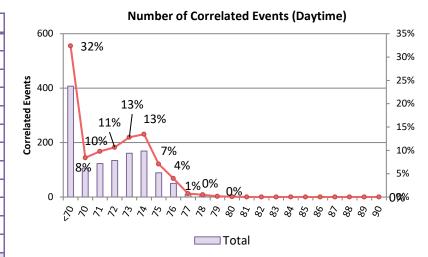
The maximum noise level less than 76 dB(A) was recorded by 98.2% of correlated departing aircraft.

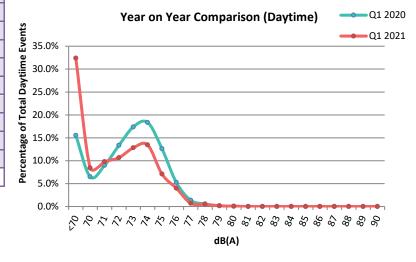
There was no noise violation in this quarter.

4.1 Daytime Noise Levels – January to March 2021

The following table identifies daytime noise levels correlated to departing aircraft at the fixed noise monitoring terminals. It should be noted that due to the power failure at NMT02, some data were not collected in Quarter 1. (*Any aircraft exceeding the Daytime Noise Violation Limit of 80dB(A), between 07:00 hrs and 22:59 hrs, is fined accordingly*)

	db (A)	Jan	Feb	Mar	QTR
	<70	100	88	219	407
	70	31	28	47	106
	71	34	25	64	123
	72	30	31	73	134
e)	73	41	45	75	161
ţ.	74	52	46	71	169
ay	75	26	26	37	89
) (C	76	18	13	19	50
Events (Daytime)	77	4	2	3	9
Š	78	2	1	3	6
ᄝ	79	1	0	1	2
ate	80	0	0	1	1
<u>-</u>	81	0	0	0	0
Number of Correlated	82	0	0	0	0
of	83	0	0	0	0
ē	84	0	0	0	0
	85	0	0	0	0
Z	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		339	305	613	1,257



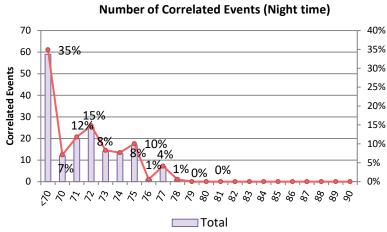


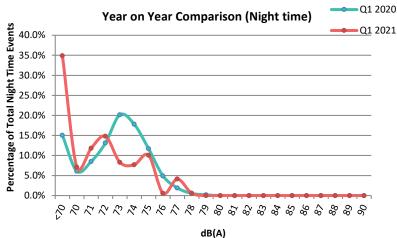
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4.2 Night Noise Levels – January to March 2021

The following table identifies the night noise levels correlated to departing aircraft at the fixed noise monitor terminals. It should be noted that due to the power failure at NMT02, some data were not collected in Quarter 1. (Any aircraft exceeding the Night Noise Violation Limit of 79dB(A), between 23:00 hrs and 06:59 hrs, is fined accordingly)

db (A)	Jan	Feb	Mar	QTR	
<70	20	6	33	59	
70	6	1	5	12	
71	4	5	11	20	<u>ر</u>
72	9	6	10	25	l de
73	4	5	5	14	Correlated Events
74	1	6	6	13	e at
75	9	3	5	17	٥
76	0	0	1	1	
77	2	3	2	7	
78	0	0	1	1	
79	0	0	0	0	
80	0	0	0	0	
81	0	0	0	0	
82	0	0	0	0	ş
83	0	0	0	0	Ever
84	0	0	0	0	ae
85	0	0	0	0	革
86	0	0	0	0	Sig
87	0	0	0	0	otal
88	0	0	0	0	l fo
89	0	0	0	0	tage
90	0	0	0	0	Percentage of Total Night Time Events
Total		35	79	169	Pe
	<70 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90	<70 20 70 6 71 4 72 9 73 4 74 1 75 9 76 0 77 2 78 0 79 0 80 0 81 0 82 0 83 0 84 0 85 0 86 0 87 0 88 0 89 0 90 0	<70 20 6 70 6 1 71 4 5 72 9 6 73 4 5 74 1 6 75 9 3 76 0 0 77 2 3 78 0 0 80 0 0 81 0 0 82 0 0 83 0 0 84 0 0 85 0 0 86 0 0 87 0 0 88 0 0 89 0 0 90 0 0	<70 20 6 33 70 6 1 5 71 4 5 11 72 9 6 10 73 4 5 5 74 1 6 6 75 9 3 5 76 0 0 1 77 2 3 2 78 0 0 1 79 0 0 0 80 0 0 0 81 0 0 0 82 0 0 0 83 0 0 0 84 0 0 0 85 0 0 0 86 0 0 0 87 0 0 0 88 0 0 0 89 0 0 0 90 0 0 0	<70 20 6 33 59 70 6 1 5 12 71 4 5 11 20 72 9 6 10 25 73 4 5 5 14 74 1 6 6 13 75 9 3 5 17 76 0 0 1 1 77 2 3 2 7 78 0 0 1 1 79 0 0 0 0 80 0 0 0 0 81 0 0 0 0 82 0 0 0 0 83 0 0 0 0 84 0 0 0 0 85 0 0 0 0 86 0 0 0 0 88 0 0 0 0 89





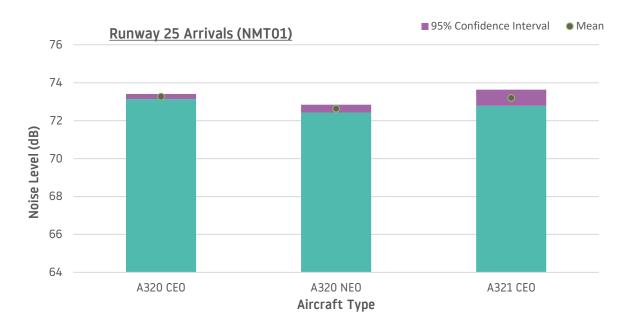
N.B It should be noted that the detection thresholds for the noise monitoring terminals are set at the lowest level to record the maximum number of aircraft noise events. However, a number of smaller aircraft types, such as business jets and propeller aircraft, get very close to but do not reach the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

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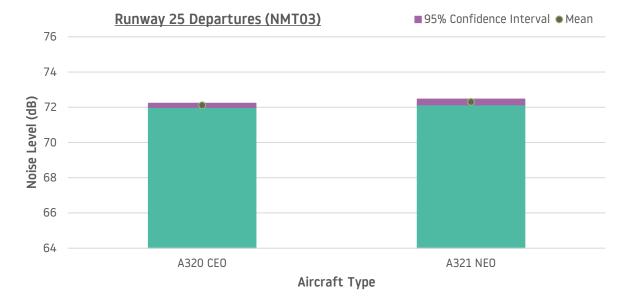
4.3 Average Noise Monitor results by Aircraft Type (January to March 2021)

The following graphs show the average noise and 95% confidence level for the three fixed noise monitors for the period January - March 2021. These are also split by the main aircraft types operating at LLA. It should be noted, that due to the power failure at NMT02, some data was not collected in Quarter 1.





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The table below shows the sample sizes used for the graphs in this section. We recommend a sample size of over 100 results to be compared. Therefore only aircraft types with a sample size of over 100 have been shown. Please note, there was a power failure at NMT2 during the quarter and therefore was not sufficient results from any aircraft types to be provided in a graph.

	A320 NEO	A321 NEO	A320
NMT01 (Arr)	107	242	453
NMT01 (Dep)	55	129	276
NMT03 (Dep)	12	176	330

4.4 Noise Violations during Quarter (January to March 2021)

There was no noise violation during the period.

4.5 Noise Insulation Scheme Update

In Quarter 1, the noise insulation scheme was paused due to COVID-19 and government restrictions. Therefore no properties were contacted or insulated during these months.

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 can be provided. Rooms eligible for insulation include living rooms, dining rooms, kitchendiners and bedrooms.

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5 NOISE CONTOURS

5.1 Night Noise Contours – January to March 2021

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 2020 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 2019 at the fixed noise monitors.

5.1.2 Noise Contour Results

The resulting noise contours are shown on page 22 at values from 48 to 63 dB LAeq,8h. Contours at 66, 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 2020), and the equivalent quarter during the previous year (January – March 2020).

Contour Value	Contour Area (km²)			
(dB L _{Aeq,8h})	Jan - Mar 2020	Oct – Dec 2020	Jan - Mar 2021	
48	28.1	15.8	9.1	
51	16.0	9.0	5.1	
54	9.1	5.2	2.6	
57	5.4	2.6	1.4	
60	2.7	1.5	0.9	
63	1.5	0.9	0.6	
66	0.9	0.6	0.4	
69	0.6	0.4	0.2	
72	0.4	0.2	0.1	
W/E Split (%)	90/10	80/20	68/32	

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 10 movements have been presented. For aircraft types with less than 10 movements in a period or types that were not explicitly presented in previous periods, 'n/a' is shown.

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^{*} The 69 and 72 dB L_{Acq,8th} contours are not shown on the Figure on page 21 as they are too small to individually distinguish, and both contours are fully contained within the boundaries of the airport site.

INM Aircraft Type	Jan - Mar 2020	Oct - Dec 2020	Jan - Mar 2021
1900D	29	12	15
737400	99	38	105
737800	275	130	17
757RR	133	209	126
A300-622R	170	154	108
A319-131	163	35	12
A320-211 (ceo)	621	222	114
A320-211 (neo)	149	86	20
A321-232 (ceo)	594	156	34
A321-232 (neo)	n/a	n/a	26
CL600	12	11	12
CL601	45	27	11
CNA525C	15	n/a	10
CNA560XL	24	20	10
CNA750	n/a	10	n/a
EMB145	32	20	18
F10062	49	15	23
GIV	29	n/a	n/a
GV	221	116	76
LEAR35	14	11	n/a
Other	50	65	51
Total	2,724	1,337	788

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

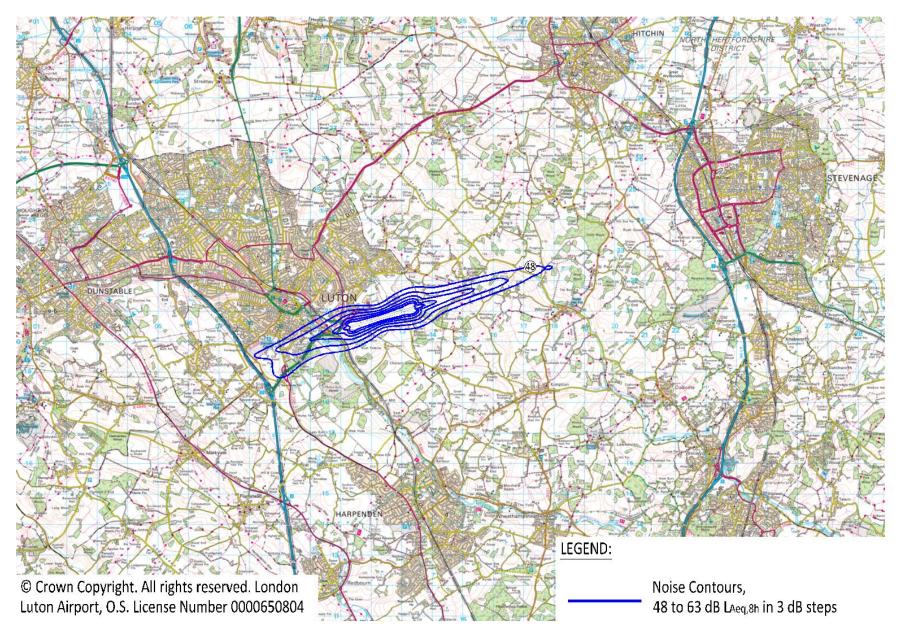
5.1.4 Noise Contour Comparison

Due to the COVID-19 pandemic, there has been a 71% decrease in the total number of movements compared with the same quarter in 2020.

The area of the 48 dB(A) noise contour has decreased by 68% compared to the same quarter last year, as a result of the decrease in movements.

The number of movements, and therefore the contour areas, has also decreased compared to the previous quarter (October - December 2020).

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6 COMPLAINTS

6.1 Total Complaints relating to LLA aircraft operations

	1 st QTR 2021	1 st QTR 2020
Total No. of Complaints relating to LLA aircraft operations	1,075	2,793
No. of Complainants	54	121
No. of General Complaints	31	251
No. of Specific Complaints	1,044	2,542
Average No. of Complaints per Complainant	19.9	23.1
No. of Aircraft Movements per Complaint	5.6	10.9

In line with the decrease in aircraft movements, a total of 1,075 complaints relating to LLA aircraft operations (on average 12 complaints per 24 hours) were received by the Flight Operations Department during the last quarter. This is compared to the 2,793 complaints which were received for the same period last year. It should be noted that in the first quarter of 2020, 94% of complaints were received from 10 individuals and 90% from two individuals.

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

Jan 2021	234 complaints (226 Specific Complaints, 8 General Complaints)
Feb 2021	267 complaints (258 Specific Complaints, 9 General Complaints)
Mar 2021	574 complaints (560 Specific Complaints, 14 General Complaints)

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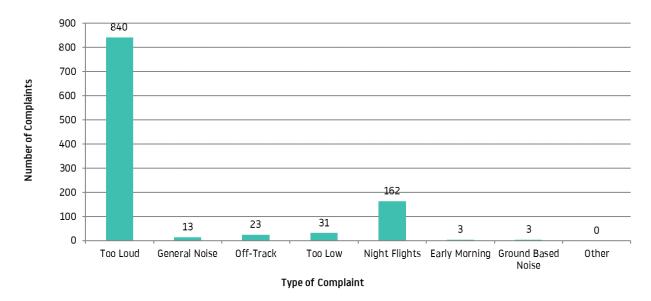
A further 130 complaints not attributable to LLA traffic were received throughout the quarter, compared to 149 complaints for the period January to March last year.



Out of 54 total complainants, there were 30 that contacted the airport only once meaning that 24 complainants generated 1,045 complaints.

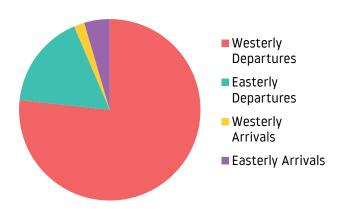
6.2 Type of Complaint

The types of complaint received by the Flight Operations Department from January to March 2021 are listed below.



6.3 Nature of Disturbance

The chart represents the areas of concern reported from specific complaints with regard to aircraft activity during the period Jan to Mar 2021.



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Within the 810 specific aircraft complaints concerning westerly departures, 769 complaints involved aircraft on the Match/Detling heading, 15 related to aircraft following Compton flight route, 14 related to aircraft using the Olney route and 12 complaints were recorded about aircraft following an off-airways routing.

With regard to the 178 complaints attributed to easterly departures, 162 related to aircraft following the Compton flight route and 3 aircraft on the Match route. There were 2 specific complaints relating to the easterly Olney departure route and 11 complaints were recorded about aircraft following an off-airways routing.

In total the Flight Operations Department received 68 specific complaints regarding arrivals. 20 of these complaints were about westerly arrivals and a further 48 concerning easterly arrivals.

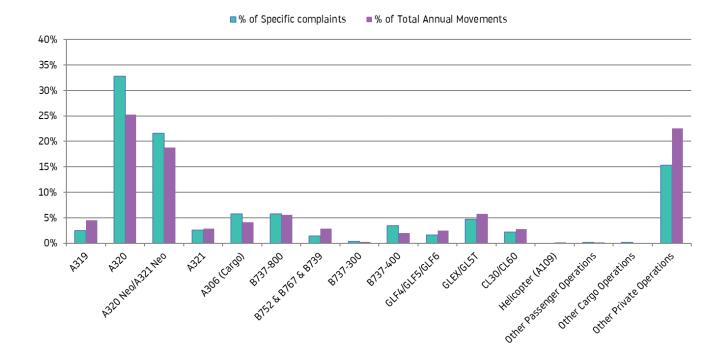
22
Complainants
reported noise
disturbance at night
(compared to 13
Complainants for the same
Quarter last year)

Departing aircraft accounted for 91% of the 148 specific night complaints and 9% involved arrivals. Cargo flights, involving A306 and B752 aircraft were reported in 33% of night complaints, whilst passenger aircraft accounted for 56% of night complaints. Furthermore, 11% of night complaints correlated to executive aircraft.

162 (15%)
Complaints
concerning night noise
disturbance from
LLA operations

6.4 Complaints by aircraft type

The diagram below shows aircraft types generating specific complaints.

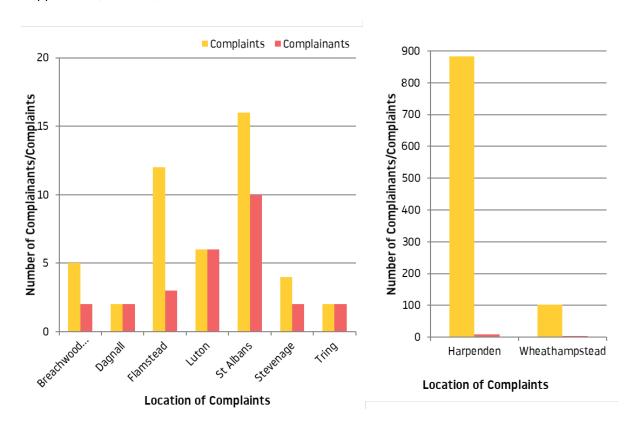


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6.5 Origin of Complaints

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 Jan to Mar 2021.

The communities with one complainant include Ayot St Lawrence, Berkhamsted, Chesham, Datchworth, Eaton Bray, Essex, Hatfield, Hemel Hempstead, Hitchin, Kensworth, Knebworth, Pepperstock, Pitsone, Redbourn and Tadworth.



6.6 Complaints Analysis

During Quarter 1 there has been a decrease in complaints and complainants compared to the same quarter last year, this is thought to be due to a number of reasons:

- The number of movements significantly decreased due to the impact of COVID-19, and the number of complaints reduced in line with this.
- Similar to previous quarters, a few people are making many complaints, in Q1 94% of complaints were received from 10 individuals and 90% from two individuals.
- The wind direction was predominantly westerly (63%) and therefore 81% of complaints were made from residents effected by westerly routes.

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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	0.8%
Email	65.7%
Travis	33.5%

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

Postal Address Flight Operations Department

London Luton Airport

Percival House, Percival Way

Luton Bedford

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 80% of concerns within 8 days and 100% 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	52.7%
1	21.2%
2	13.4%
3	4.6%
4	1.1%
5	4.8%
6	0.4%
7	0.1%
8	0.5%
9	0.1%
10	0.0%
11	0.3%
12	0.6%
13	0.2%
14	0.0%
15	0.0%
16	0.0%
16+	0.0%

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7 COMMUNITY RELATIONS

7.1 Community Visits to Airport

Invitations are often extended to local residents and LLACC members 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, there were no community visits due to COVID-19.

7.2 Airport Visits to the Community

In light of COVID-19 and the need to continue social distancing measures, the Flight Operations team took the decision to cancel all public surgeries in 2020 and rearrange these for 2021. Details will be published on our website when available. (https://www.london-luton.co.uk/corporate/community/noise/noise-surgeries)

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