

Lineages report for Scotland

This report gives summaries of lineages sampled in Scotland for week 2020-09-13. There are time lags due to batching, curation and analysis, the most recently sampled sequence is 2020-08-31. The analysis (eg time since last sample) is therefore undertaken from this date. 6694 sequences from Scotland have been included in this analysis. 400 lineages have been recorded, 202 of which only contain one sequence.

A few notes: the size of a lineage may be due to a low amount of transmission of this lineage, but it is likely also that it just hasn't been sampled as frequently, especially for newer lineages. It's also important to realise that these lineages are *estimates* of how we think the virus is spreading in the UK after being introduced from abroad, as the low evolutionary rate of the virus makes it difficult to separate lineages with certainty.

The minimum number of introductions is 36 and the maximum is 1906

Sequences which were replicates or too error-prone were removed from this analysis.

367 are lineages which were sampled less than five times in Scotland, and so have been left out of visualisation in the interests of clarity

Furthermore, those sequences which haven't been sampled in the last month are not shown.

Of the 33 that remain: 4 are pending extinction, ie last seen three weeks ago. 10 lineages have gone quiet, ie haven't been seen this week. 2 lineages have reactivated. 17 lineages have been continuously circulating.

The following table contains information about the ten largest lineages and the number of sequences the dataset. Information about other lineages is found in the appendix, along with the raw data for all of the other figures.

Each entry is the count of sequences from each lineage in each country, with the percentage of the total sequences from that lineage that this count represents.

“Activity score” is calculated by taking the average gap between sampling for each lineage, and dividing it by the number of days since the lineage was last sampled. Therefore the higher the number, the more active the lineage is. If the score is above 1, then it has been sampled *more* recently than expected given its average gap size. We might interpret this as an increase in activity. If the score is below 1, it has been sampled *less* recently than expected given its average gap size, so we might interpret this as a decrease in activity.

The global lineages are correct as of the data release on 2020-07-20

It is written to “summary_files” as “lineage_summary.tsv” for further use, and the full list of lineages is available in the same directory as “all_lineages.csv”

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK175	Mar-01, Aug-21	748 taxa	B.1, B.1.5, B.1.71, B, B.6, B.1.35	10 days	0.0068
UK336	Mar-19, Jul-22	747 taxa	B.1, B.1.93	40 days	0.0035
UK5	Feb-28, Aug-31	449 taxa	B.1.1.12, B.1.1.14, B.1.1.13, B.1.1.10, B.1.1	0 days	active today
UK109	Mar-12, Aug-21	340 taxa	B.1, B.1.100, B.1.99	10 days	0.0171
UK1195	Jul-28, Aug-31	333 taxa	B.1.1, B.1.1.25	0 days	active today
UK40	Mar-13, Jun-23	255 taxa	B.16, B.2, B	69 days	0.0056
UK199	Mar-05, Aug-26	234 taxa	B.1.5, B.1.5.10, B.1	5 days	0.0446
UK2464	Mar-19, Jun-29	209 taxa	B.1, B.1.90, B.1.5, B.1.11	63 days	0.0025
UK5676	Mar-09, Jul-22	192 taxa	B.2	40 days	0.0051
UK39	Mar-12, May-29	187 taxa	A.2	94 days	0.004

These data is represented in the figure one. Note that the number of sequences is likely to be due more to differing sampling efforts in different regions, rather than genuine differences in numbers of cases.

The raw data for this bar chart are in the table above.

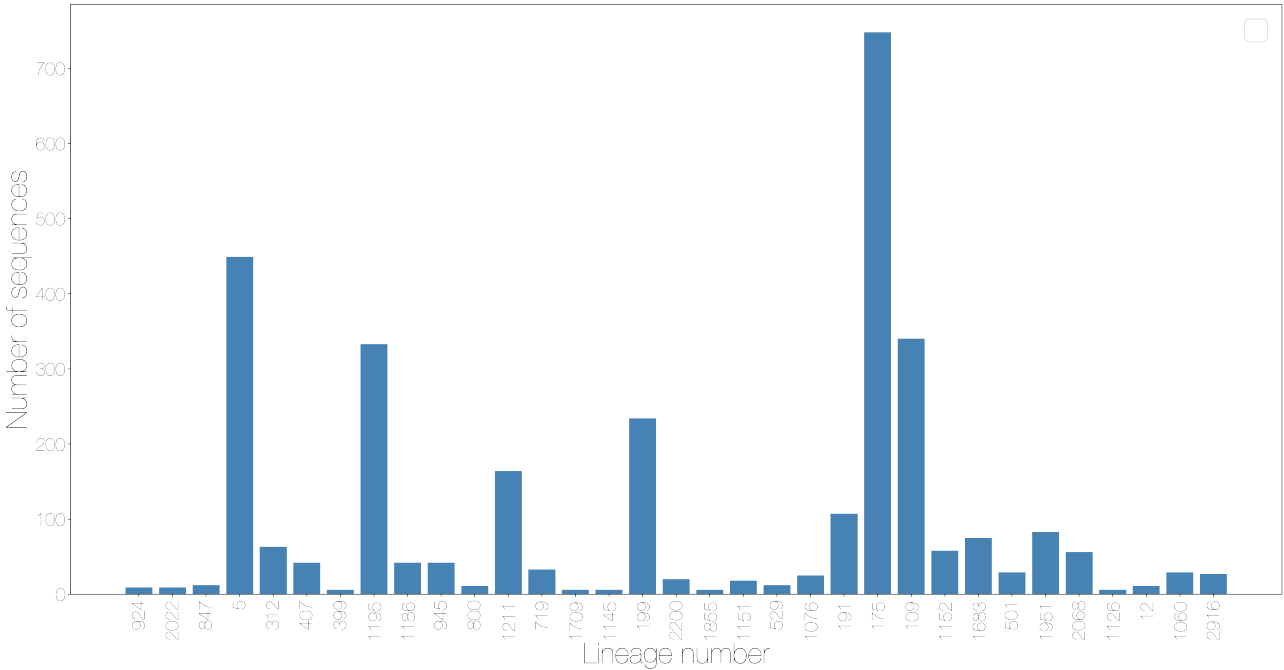


Figure 1: Number of sequences sampled in a lineage by country

Different sequencing centres have different delays in turn around from receipt of samples to submission of sequence data. This will affect all of the figures shown after this if lineages have geographical variation, as some regions have less up to date data.

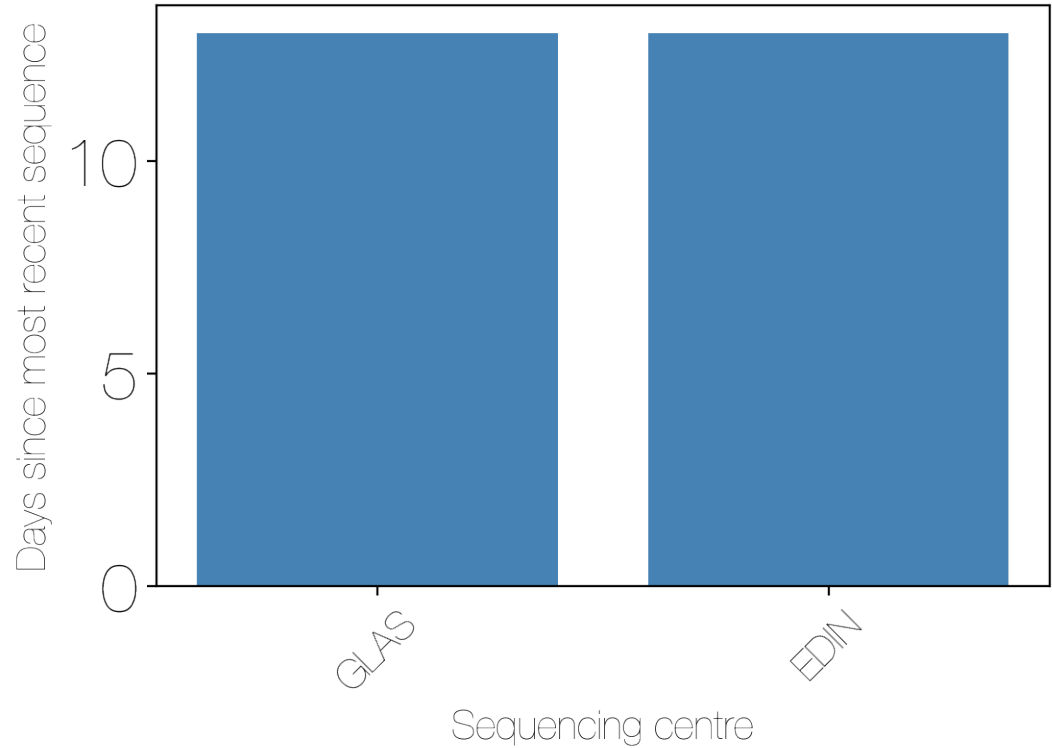


Figure 2: Lag since the most recent sequence from each sequencing centre to most current date

The relative growth and decline of the ten most sampled lineages in terms of number of counties they are present in is shown in figure three.

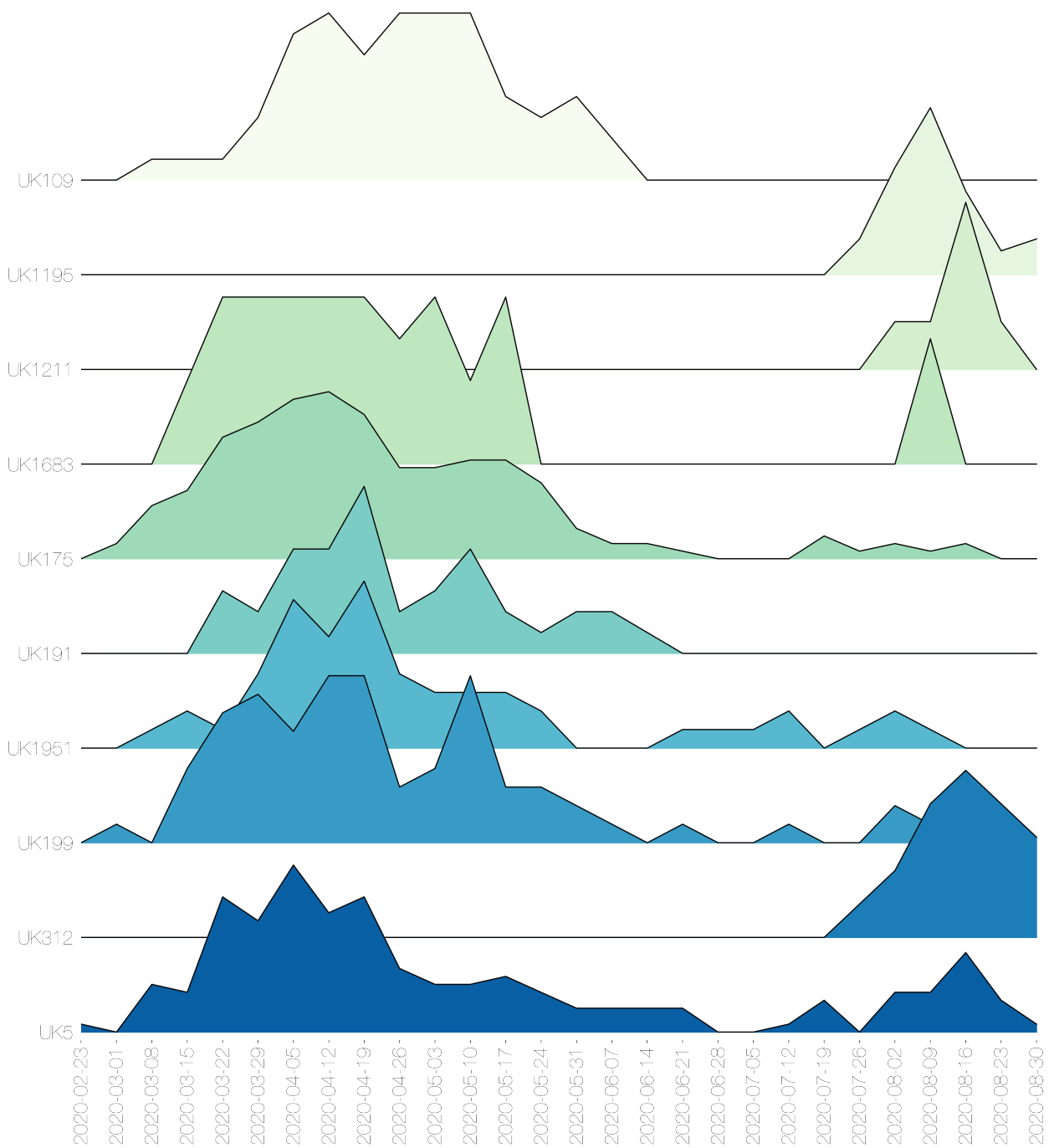


Figure 3: Lineages by number of adm2 regions present by epiweek

These lineages are shown on the timeline. Each line represents the length of the cluster, from oldest to most recent sampling date. The dots are sized by the number of sequences taken on that date, and again are colour coded by country. The raw data has been written to a summary file.

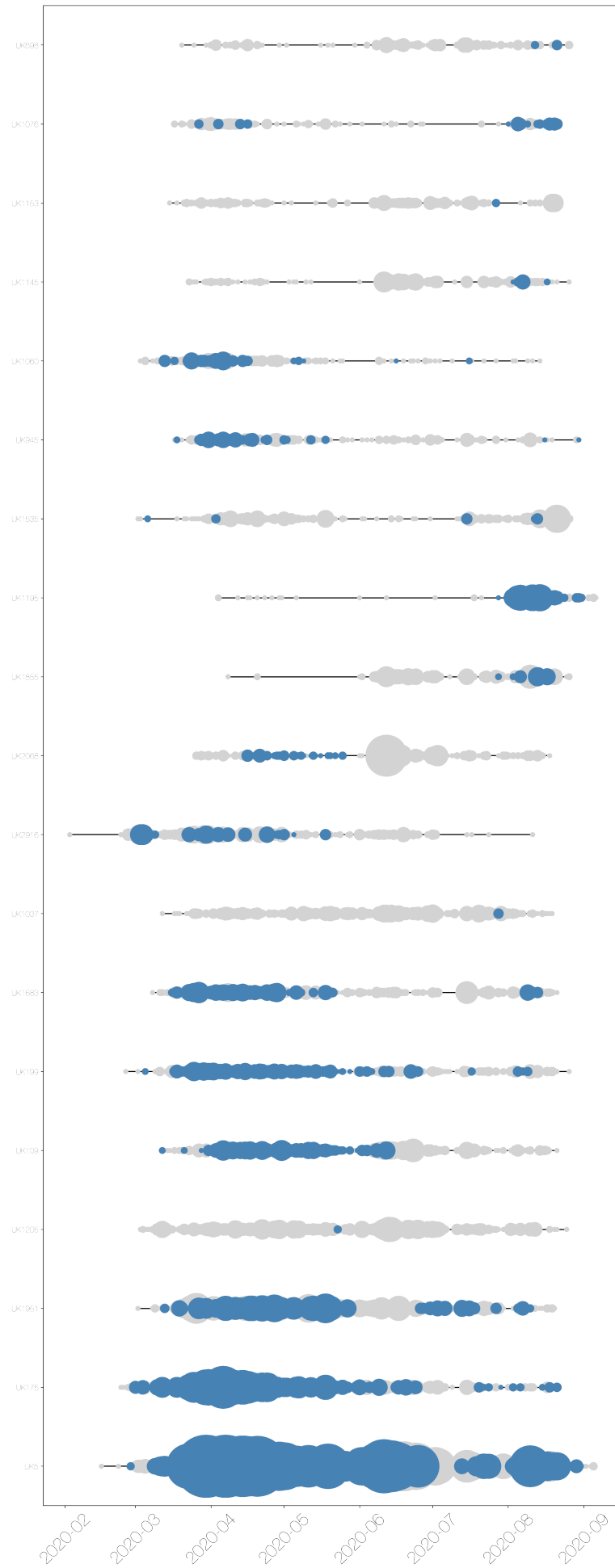


Figure 4: Timeline of lineages, sized by number of sequences from each country.

The date of first sequence in the cluster is shown in figure five for every cluster with date information. NB the lineage may have started anywhere in the UK, but has been recorded at least once in Scotland

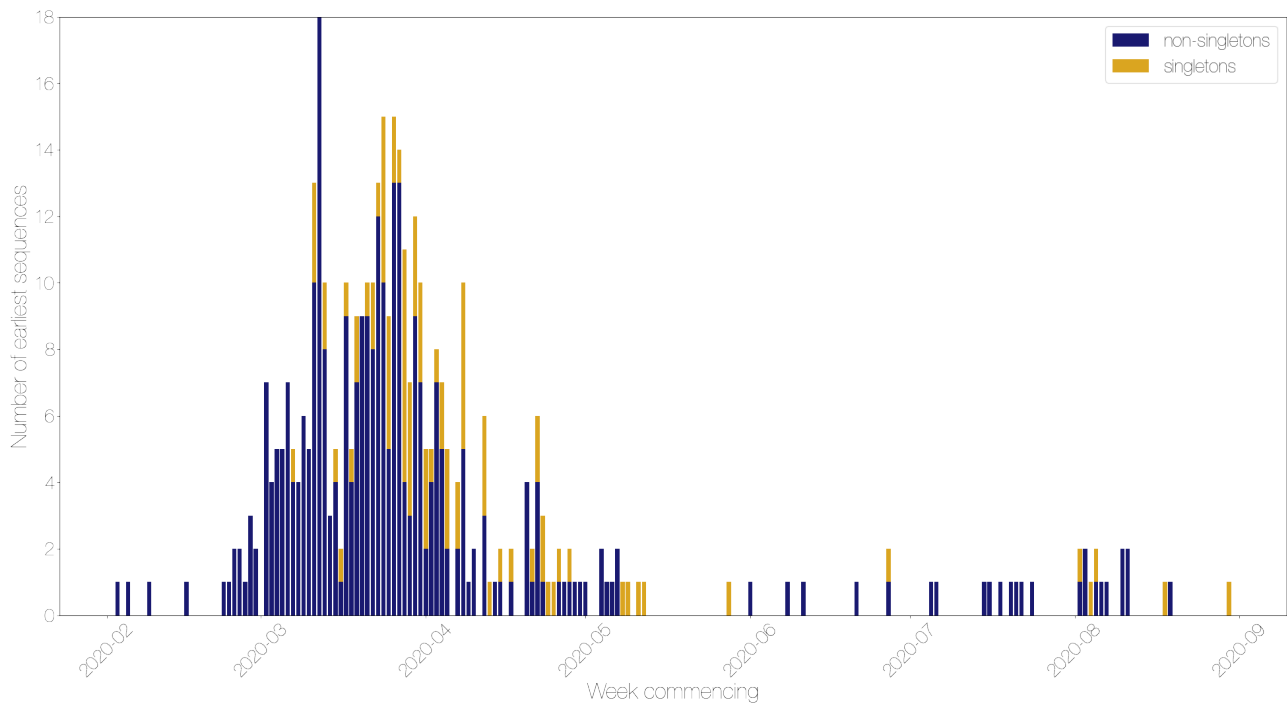


Figure 5: Lineage starts per week, split by singletons and non-singletons

For comparison, here is a plot of the day that every sequence was taken, coloured by country. Note that sequences without dates were not included.

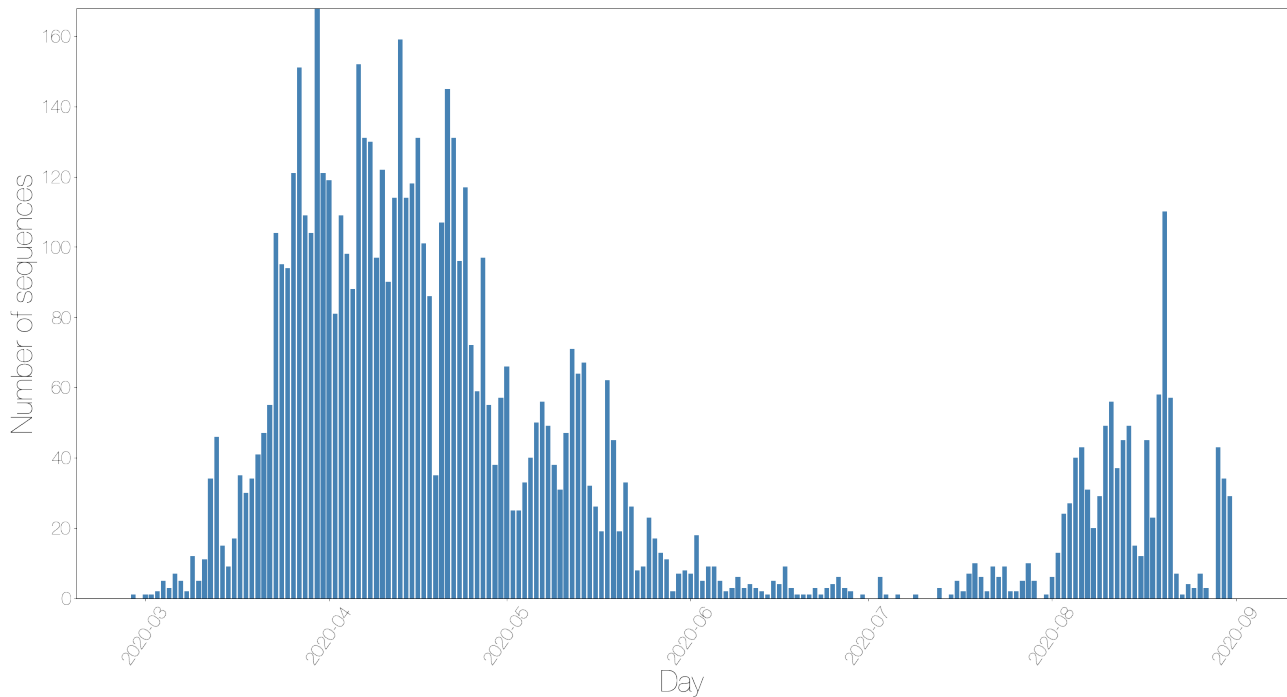


Figure 6: Sequences taken on each day by country

The map shows the number of sequences sampled in each admin2 region in the UK. The colour scale is the same for all four countries, but with different underlying base colours.

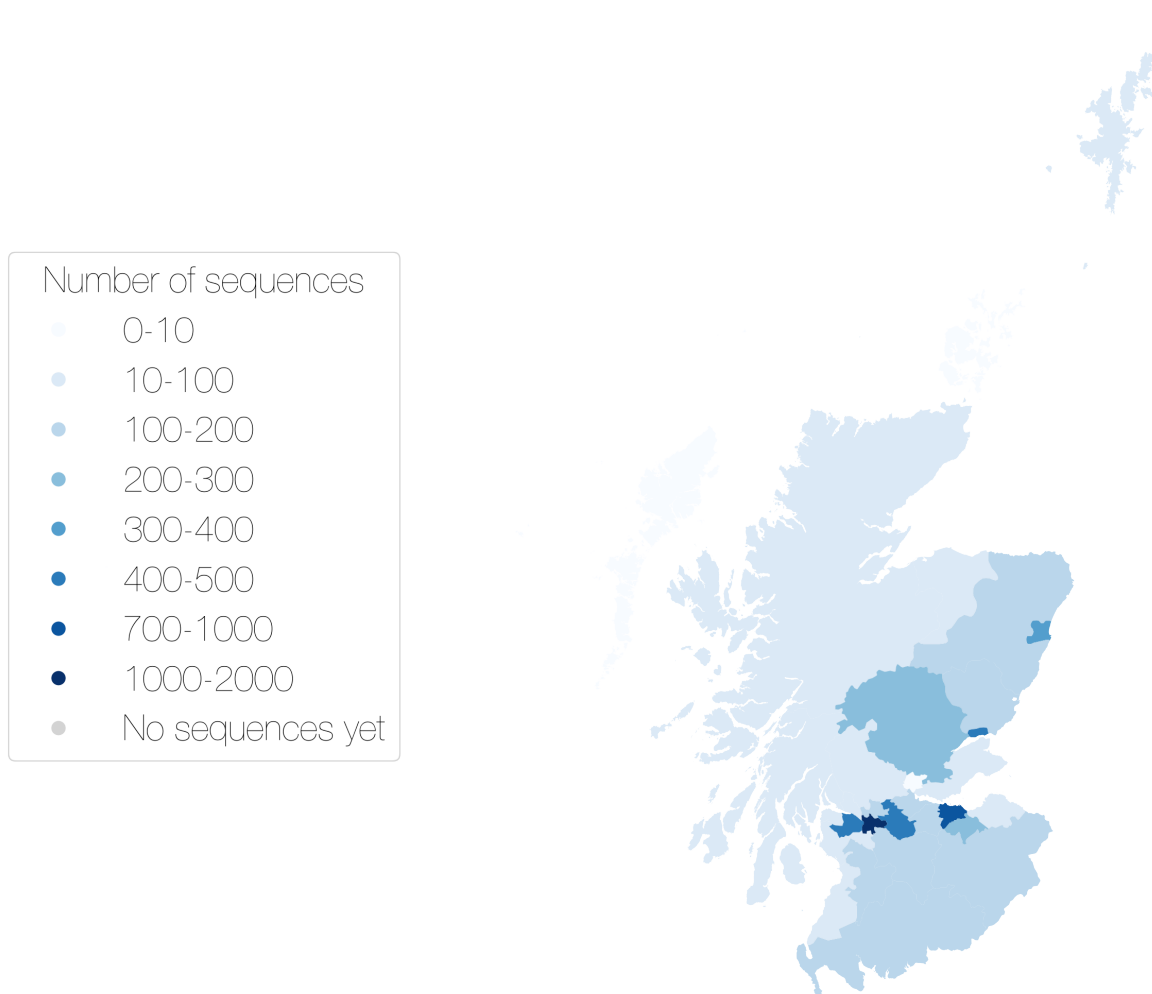


Figure 7: Map showing the number of sequences sampled by adm2 region

There are some sequences with locations that are not matched to real Admin2 regions, some manual curation required.

Other results modules for UK lineage analysis can be added in here if required.

Appendix

Below are the raw data tables for each of the figures in the report.

Table S1 Description of all lineages that have been circulating in the last month, and have more than 5 sequences.

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK175	Mar-01, Aug-21	748 taxa	B.1, B.1.5, B.1.71, B, B.6, B.1.35	10 days	0.0068
UK336	Mar-19, Jul-22	747 taxa	B.1, B.1.93	40 days	0.0035
UK5	Feb-28, Aug-31	449 taxa	B.1.1.12, B.1.1.14, B.1.1.13, B.1.1.10, B.1.1	0 days	active today

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK109	Mar-12, Aug-21	340 taxa	B.1, B.1.100, B.1.99	10 days	0.0171
UK1195	Jul-28, Aug-31	333 taxa	B.1.1, B.1.1.25	0 days	active today
UK40	Mar-13, Jun-23	255 taxa	B.16, B.2, B	69 days	0.0056
UK199	Mar-05, Aug-26	234 taxa	B.1.5, B.1.5.10, B.1	5 days	0.0446
UK2464	Mar-19, Jun-29	209 taxa	B.1, B.1.90, B.1.5, B.1.11	63 days	0.0025
UK5676	Mar-09, Jul-22	192 taxa	B.2	40 days	0.0051
UK39	Mar-12, May-29	187 taxa	A.2	94 days	0.004
UK1211	Aug-02, Aug-29	164 taxa	B.1.1	2 days	0.37
UK2913	Mar-18, Jul-15	162 taxa	B.1, B.1.13, B.1.5, B.1.11	47 days	0.0038
UK191	Mar-22, Aug-21	107 taxa	B.1, B.1.77	10 days	0.1236
UK1951	Mar-13, Aug-20	83 taxa	B.1.1.1, B.1.1	11 days	0.0072
UK1254	Mar-22, May-21	81 taxa	B.1, B.1.89	102 days	0.0074
UK1683	Mar-16, Aug-21	75 taxa	B.1.1.1, B.1.1	10 days	0.0204
UK100	Mar-22, Jun-01	63 taxa	B.1, B.1.101	91 days	0.0124
UK107	Mar-09, Jul-20	63 taxa	B.2.1	42 days	0.0021
UK312	Aug-01, Aug-31	63 taxa	B.1	0 days	active today
UK1487	Mar-17, Jun-24	60 taxa	B.1.5	68 days	0.0135
UK1964	Mar-29, Jun-27	60 taxa	B.1.1, B.1.1.14	65 days	0.0257
UK1152	Jul-17, Aug-21	58 taxa	B.1.1	10 days	0.0434
UK2068	Apr-16, Aug-18	56 taxa	B.1.1.4, B.1.1	13 days	0.0232
UK14	Mar-14, May-21	54 taxa	B.2, B	102 days	0.0131
UK21	Mar-18, May-23	53 taxa	B.1, B.1.40	100 days	0.0127
UK44	Mar-17, May-01	52 taxa	B	122 days	0.0065
UK72	Mar-07, Jun-23	52 taxa	B.2, B	69 days	0.0044
UK1186	Aug-11, Aug-31	42 taxa	B.1, B.1.79	0 days	active today
UK407	Aug-11, Aug-31	42 taxa	B.1, B.1.79	0 days	active today
UK945	Mar-18, Aug-30	42 taxa	B.1.1	1 days	0.4427
UK167	Mar-12, Jul-15	42 taxa	B.1	47 days	0.0063
UK1437	Apr-08, May-14	42 taxa	B.1	109 days	0.0081

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK600	Mar-07, Jul-13	41 taxa	B.1.1	49 days	0.009
UK4493	Apr-23, May-19	37 taxa	B.1	104 days	0.0125
UK1684	Mar-18, Jul-04	36 taxa	B.1.1.1, B.1.1	58 days	0.0059
UK87	Mar-13, Apr-24	36 taxa	B.1, B.1.70	129 days	0.0093
UK719	Mar-13, Aug-28	33 taxa	B.1.1	3 days	0.2424
UK43	Mar-18, Apr-22	32 taxa	A.5	131 days	0.0098
UK1667	Mar-31, Jun-02	31 taxa	B.1.9, B.1	90 days	0.0189
UK501	Mar-19, Aug-20	29 taxa	B.1	11 days	0.1126
UK187	Mar-21, Jun-05	29 taxa	B.1	87 days	0.0105
UK1060	Mar-13, Aug-14	29 taxa	B.1.1.1, B.1.1	17 days	0.0293
UK2916	Mar-03, Aug-11	27 taxa	B.1, B.1.98	20 days	0.0161
UK267	Mar-19, Jul-15	26 taxa	B.2	47 days	0.0128
UK1076	Mar-27, Aug-22	25 taxa	B.1.1	9 days	0.0714
UK502	Mar-06, Apr-16	23 taxa	B.1.69, B.1	137 days	0.013
UK2200	Mar-17, Aug-26	20 taxa	B.1, B.1.5	5 days	0.2105
UK740	Mar-28, Jun-13	20 taxa	B.1.1	79 days	0.0066
UK1418	Mar-23, Jul-09	19 taxa	B.1.5	53 days	0.1132
UK58	Mar-12, Apr-24	18 taxa	B.1	129 days	0.0128
UK512	Apr-07, May-13	18 taxa	B.1.5, B.1.5.6	110 days	0.0193
UK1332	Mar-24, May-19	18 taxa	B.1.5	104 days	0.0199
UK261	Mar-19, Apr-15	18 taxa	A.3	138 days	0.0115
UK1151	Aug-05, Aug-25	18 taxa	B.1	6 days	0.0926
UK1346	Mar-08, Jul-10	17 taxa	B.1.1	52 days	0.0994
UK1040	Mar-21, May-06	16 taxa	B.1.1.20, B.1.1	117 days	0.0262
UK387	Mar-12, Jul-31	16 taxa	B.1, B.1.5, B.1.77	31 days	0.0256
UK120	Mar-02, Jun-07	16 taxa	B	85 days	0.0158
UK436	Mar-28, May-14	16 taxa	B.1.5	109 days	0.0275
UK669	Apr-15, Aug-03	15 taxa	B.1.1	28 days	0.0591
UK330	Mar-27, Jul-02	14 taxa	B.1, B.1.93	60 days	0.0808

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK601	Mar-14, May-15	14 taxa	B.10	108 days	0.0052
UK245	Apr-01, Apr-27	13 taxa	B.2	126 days	0.0255
UK1230	Mar-26, Jun-02	12 taxa	B.1.1	90 days	0.0264
UK522	Mar-23, Apr-24	12 taxa	B.1	129 days	0.0226
UK847	Aug-13, Aug-31	12 taxa	B.1, B.1.36	0 days	active today
UK6	Mar-23, Jul-17	12 taxa	B.1, B.1.75	45 days	0.0176
UK529	Aug-06, Aug-22	12 taxa	B.1	9 days	0.1481
UK800	Aug-11, Aug-30	11 taxa	B.1	1 days	0.9048
UK12	Aug-06, Aug-14	11 taxa	B.1	17 days	0.1668
UK5498	Mar-12, Jul-19	11 taxa	B.2	43 days	0.0187
UK1212	Mar-30, Jul-04	11 taxa	B.1.1	58 days	0.033
UK917	Apr-05, Jul-23	9 taxa	B.1.1	39 days	0.0169
UK924	Aug-19, Aug-31	9 taxa	B.1.113, B.1	0 days	active today
UK2022	Aug-13, Aug-31	9 taxa	B.1.1	0 days	active today
UK1034	Apr-22, May-27	9 taxa	B.1.1.28	96 days	0.0456
UK548	Mar-14, Apr-03	8 taxa	B.2.1	150 days	0.0167
UK345	Mar-20, May-15	8 taxa	B.2.2, B.2	108 days	0.0096
UK605	Apr-01, Apr-10	8 taxa	B.1	143 days	0.0096
UK1289	Mar-30, May-11	7 taxa	B.1.1	112 days	0.0625
UK628	Mar-31, Apr-24	7 taxa	B.1	129 days	0.031
UK306	Mar-30, Apr-20	7 taxa	B.1	133 days	0.0263
UK133	Mar-22, Apr-25	7 taxa	B.1	128 days	0.0266
UK51	Mar-26, Jul-15	7 taxa	B.1.36	47 days	0.016
UK1145	Aug-03, Aug-26	6 taxa	B.1.1	5 days	0.0951
UK315	Mar-14, Aug-02	6 taxa	B.2.2	29 days	0.0237
UK1855	Jul-28, Aug-26	6 taxa	B.1.1	5 days	0.0639
UK508	Mar-30, Apr-30	6 taxa	B.1.5.6	123 days	0.0103
UK399	Aug-12, Aug-31	6 taxa	B.1	0 days	active today
UK1709	Aug-17, Aug-26	6 taxa	B.1.1	5 days	0.152

Lineage name	Date range	Total	Global lineage	Time since last sample	Activity score
UK667	Mar-20, Jun-10	6 taxa	B.1.77	82 days	0.0244
UK1126	Mar-23, Aug-17	6 taxa	B.1.1	14 days	0.0559

Table S2 Raw data for figure two showing lags between the most recent sequence and current date for each sequencing centre

	Centre	Lag in days
0	GLAS	13
1	EDIN	13

Table S3 Raw data for figure three showing the number of admin2 regions a lineage is present in over time

Week commencing	UK175	UK5	UK109	UK1195	UK199	UK1211	UK191	UK1951	UK1683	UK312
2020-02-23	0	1	0	0	0	0	0	0	0	0
2020-03-01	2	0	0	0	1	0	0	0	0	0
2020-03-08	7	6	1	0	0	0	0	1	0	0
2020-03-15	9	5	1	0	4	0	0	2	2	0
2020-03-22	16	17	1	0	7	0	3	1	4	0
2020-03-29	18	14	3	0	8	0	2	4	4	0
2020-04-05	21	21	7	0	6	0	5	8	4	0
2020-04-12	22	15	8	0	9	0	5	6	4	0
2020-04-19	19	17	6	0	9	0	8	9	4	0
2020-04-26	12	8	8	0	3	0	2	4	3	0
2020-05-03	12	6	8	0	4	0	3	3	4	0
2020-05-10	13	6	8	0	9	0	5	3	2	0
2020-05-17	13	7	4	0	3	0	2	3	4	0
2020-05-24	10	5	3	0	3	0	1	2	0	0
2020-05-31	4	3	4	0	2	0	2	0	0	0
2020-06-07	2	3	2	0	1	0	2	0	0	0
2020-06-14	2	3	0	0	0	0	1	0	0	0
2020-06-21	1	3	0	0	1	0	0	1	0	0
2020-06-28	0	0	0	0	0	0	0	1	0	0
2020-07-05	0	0	0	0	0	0	0	1	0	0
2020-07-12	0	1	0	0	1	0	0	2	0	0
2020-07-19	3	4	0	0	0	0	0	0	0	0
2020-07-26	1	0	0	3	0	0	0	1	0	1
2020-08-02	2	5	0	9	2	2	0	2	0	2
2020-08-09	1	5	0	14	1	2	0	1	3	4
2020-08-16	2	10	0	7	0	7	0	0	0	5
2020-08-23	0	4	0	2	0	2	0	0	0	4
2020-08-30	0	1	0	3	0	0	0	0	0	3

Table S4 is not appropriate for this report and so has been omitted.

Table S5 Raw data for figure five showing when lineages started per day, divided by singletons and non-singletons

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-02-03		0	1
2020-02-05		0	1
2020-02-09		0	1
2020-02-16		0	1
2020-02-23		0	1

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-02-24	0	1	1
2020-02-25	0	2	2
2020-02-26	0	2	2
2020-02-27	0	1	1
2020-02-28	0	3	3
2020-02-29	0	2	2
2020-03-02	0	7	7
2020-03-03	0	4	4
2020-03-04	0	5	5
2020-03-05	0	5	5
2020-03-06	0	7	7
2020-03-07	1	4	5
2020-03-08	0	4	4
2020-03-09	0	6	6
2020-03-10	0	5	5
2020-03-11	3	10	13
2020-03-12	0	18	18
2020-03-13	2	8	10
2020-03-14	0	3	3
2020-03-15	1	4	5
2020-03-16	1	1	2
2020-03-17	1	9	10
2020-03-18	1	4	5
2020-03-19	2	7	9
2020-03-20	0	9	9
2020-03-21	1	9	10
2020-03-22	2	8	10
2020-03-23	1	12	13
2020-03-24	5	10	15
2020-03-25	4	5	9
2020-03-26	2	13	15
2020-03-27	1	13	14
2020-03-28	7	4	11
2020-03-29	4	3	7
2020-03-30	3	9	12
2020-03-31	3	7	10
2020-04-01	3	2	5
2020-04-02	1	4	5
2020-04-03	1	7	8
2020-04-04	2	5	7
2020-04-05	3	2	5
2020-04-07	2	2	4
2020-04-08	5	5	10
2020-04-09	0	1	1
2020-04-10	0	2	2
2020-04-12	3	3	6
2020-04-13	1	0	1
2020-04-14	0	1	1
2020-04-15	1	1	2
2020-04-17	1	1	2
2020-04-20	0	4	4
2020-04-21	1	1	2
2020-04-22	2	4	6
2020-04-23	2	1	3
2020-04-24	1	0	1
2020-04-25	1	0	1
2020-04-26	1	1	2
2020-04-27	0	1	1
2020-04-28	1	1	2

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-04-29	0	1	1
2020-04-30	0	1	1
2020-05-01	0	1	1
2020-05-04	0	2	2
2020-05-05	0	1	1
2020-05-06	0	1	1
2020-05-07	0	2	2
2020-05-08	1	0	1
2020-05-09	1	0	1
2020-05-11	1	0	1
2020-05-12	1	0	1
2020-05-28	1	0	1
2020-06-01	0	1	1
2020-06-08	0	1	1
2020-06-11	0	1	1
2020-06-21	0	1	1
2020-06-27	1	1	2
2020-07-05	0	1	1
2020-07-06	0	1	1
2020-07-15	0	1	1
2020-07-16	0	1	1
2020-07-18	0	1	1
2020-07-20	0	1	1
2020-07-21	0	1	1
2020-07-22	0	1	1
2020-07-24	0	1	1
2020-08-02	1	1	2
2020-08-03	0	2	2
2020-08-04	1	0	1
2020-08-05	1	1	2
2020-08-06	0	1	1
2020-08-07	0	1	1
2020-08-10	0	2	2
2020-08-11	0	2	2
2020-08-18	1	0	1
2020-08-19	0	1	1
2020-08-30	1	0	1

Table S6 Raw data for figure six showing the number of sequences taken over time.

Day	Scotland
2020-02-28	1
2020-03-01	1
2020-03-02	1
2020-03-03	2
2020-03-04	5
2020-03-05	3
2020-03-06	7
2020-03-07	5
2020-03-08	2
2020-03-09	12
2020-03-10	5
2020-03-11	11
2020-03-12	34
2020-03-13	46
2020-03-14	15
2020-03-15	9
2020-03-16	17

Day	Scotland
2020-03-17	35
2020-03-18	30
2020-03-19	34
2020-03-20	41
2020-03-21	47
2020-03-22	55
2020-03-23	104
2020-03-24	95
2020-03-25	94
2020-03-26	121
2020-03-27	151
2020-03-28	109
2020-03-29	104
2020-03-30	168
2020-03-31	121
2020-04-01	119
2020-04-02	81
2020-04-03	109
2020-04-04	98
2020-04-05	88
2020-04-06	152
2020-04-07	131
2020-04-08	130
2020-04-09	97
2020-04-10	122
2020-04-11	90
2020-04-12	114
2020-04-13	159
2020-04-14	114
2020-04-15	118
2020-04-16	131
2020-04-17	101
2020-04-18	86
2020-04-19	35
2020-04-20	107
2020-04-21	145
2020-04-22	131
2020-04-23	96
2020-04-24	117
2020-04-25	72
2020-04-26	59
2020-04-27	97
2020-04-28	55
2020-04-29	38
2020-04-30	57
2020-05-01	66
2020-05-02	25
2020-05-03	25
2020-05-04	33
2020-05-05	40
2020-05-06	50
2020-05-07	56
2020-05-08	49
2020-05-09	38
2020-05-10	31
2020-05-11	47
2020-05-12	71
2020-05-13	64
2020-05-14	67

Day	Scotland
2020-05-15	32
2020-05-16	26
2020-05-17	19
2020-05-18	62
2020-05-19	45
2020-05-20	19
2020-05-21	33
2020-05-22	26
2020-05-23	8
2020-05-24	9
2020-05-25	23
2020-05-26	17
2020-05-27	13
2020-05-28	11
2020-05-29	2
2020-05-30	7
2020-05-31	8
2020-06-01	7
2020-06-02	18
2020-06-03	5
2020-06-04	9
2020-06-05	9
2020-06-06	5
2020-06-07	2
2020-06-08	3
2020-06-09	6
2020-06-10	3
2020-06-11	4
2020-06-12	3
2020-06-13	2
2020-06-14	1
2020-06-15	5
2020-06-16	4
2020-06-17	9
2020-06-18	3
2020-06-19	1
2020-06-20	1
2020-06-21	1
2020-06-22	3
2020-06-23	1
2020-06-24	3
2020-06-25	4
2020-06-26	6
2020-06-27	3
2020-06-28	2
2020-06-30	1
2020-07-03	6
2020-07-04	1
2020-07-06	1
2020-07-09	1
2020-07-13	3
2020-07-15	1
2020-07-16	5
2020-07-17	2
2020-07-18	7
2020-07-19	10
2020-07-20	6
2020-07-21	2
2020-07-22	9

Day	Scotland
2020-07-23	6
2020-07-24	9
2020-07-25	2
2020-07-26	2
2020-07-27	5
2020-07-28	10
2020-07-29	5
2020-07-31	1
2020-08-01	6
2020-08-02	13
2020-08-03	24
2020-08-04	27
2020-08-05	40
2020-08-06	43
2020-08-07	31
2020-08-08	20
2020-08-09	29
2020-08-10	49
2020-08-11	56
2020-08-12	37
2020-08-13	45
2020-08-14	49
2020-08-15	15
2020-08-16	12
2020-08-17	45
2020-08-18	23
2020-08-19	58
2020-08-20	110
2020-08-21	57
2020-08-22	7
2020-08-23	1
2020-08-24	4
2020-08-25	3
2020-08-26	7
2020-08-27	3
2020-08-29	43
2020-08-30	34
2020-08-31	29

Table S7 Raw data for the figure seven with the number of sequences assigned to each admin2 region.

Admin2	Country	Number of sequences	Sequence group
ABERDEEN	Scotland	316	300-400
ABERDEENSHIRE	Scotland	164	100-200
ANGUS	Scotland	118	100-200
ARGYLL AND BUTE	Scotland	32	10-100
CLACKMANNANSHIRE	Scotland	9	1-10
DUMFRIES AND GALLOWAY	Scotland	123	100-200
DUNDEE	Scotland	481	400-500
EAST AYRSHIRE	Scotland	116	100-200
EAST DUNBARTONSHIRE	Scotland	121	100-200
EAST LOTHIAN	Scotland	83	10-100
EAST RENFREWSHIRE	Scotland	83	10-100
EDINBURGH	Scotland	714	700-1000
EILEAN SIAR	Scotland	4	1-10
FALKIRK	Scotland	128	100-200
FIFE	Scotland	94	10-100
GLASGOW	Scotland	1698	1000-2000

Admin2	Country	Number of sequences	Sequence group
HIGHLAND	Scotland	68	10-100
INVERCLYDE	Scotland	72	10-100
MIDLOTHIAN	Scotland	211	200-300
MORAY	Scotland	23	10-100
NORTH AYRSHIRE	Scotland	31	10-100
NORTH LANARKSHIRE	Scotland	412	400-500
ORKNEY ISLANDS	Scotland	7	1-10
PERTHSHIRE AND KINROSS	Scotland	292	200-300
RENFREWSHIRE	Scotland	418	400-500
SCOTTISH BORDERS	Scotland	163	100-200
SHETLAND ISLANDS	Scotland	20	10-100
SOUTH AYRSHIRE	Scotland	20	10-100
SOUTH LANARKSHIRE	Scotland	148	100-200
STIRLING	Scotland	27	10-100
WEST DUNBARTONSHIRE	Scotland	88	10-100
WEST LoTHIAN	Scotland	196	100-200