## Lineages report for OXON

This report gives summaries of UK specific lineages sequenced by OXON for week 2020-09-13. There are time lags due to batching, curation and analysis, the most recently sampled sequence is 2020-06-10. The analysis (eg time since last sample) is therefore undertaken from this date. 1259 sequences in the UK from the sequencing centre OXON have been included in this analysis.

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 6 and the maximum is 672

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

161 are lineages which only contained five sequences or fewer, 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 8 that remain: 4 are pending extinction, ie last seen three weeks ago. 4 lineages have reactivated.

The following table contains information about the ten largest lineages 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	England	Date range	Global lineage	Total
UK5	340 (100.0%)	Mar-19, May-15	B.1.1, B.1.1.10	340 taxa
UK2039	127 (100.0%)	Mar-13, Jun-07	B.1.1	$127  \mathrm{taxa}$
UK1951	44 (100.0%)	Mar-21, May-07	B.1.1.1, B.1.1	44  taxa
UK1542	41 (100.0%)	Mar-27, Apr-20	B.1.1	41 taxa
UK1278	33 (100.0%)	Mar-23, Jun-05	B.1.1	33  axa
UK1717	30 (100.0%)	Apr-07, May-25	B.1.1	$30  \mathrm{taxa}$
UK175	27 (100.0%)	Mar-30, May-01	B.1	$27  \mathrm{taxa}$
UK902	23 (100.0%)	Apr-04, May-03	B.1.1	23 taxa
UK109	23 (100.0%)	Mar-20, May-06	B.1.99, B.1	23 taxa
UK107	21 (100.0%)	Mar-24, Apr-18	B.2, B.2.1	21 taxa

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.

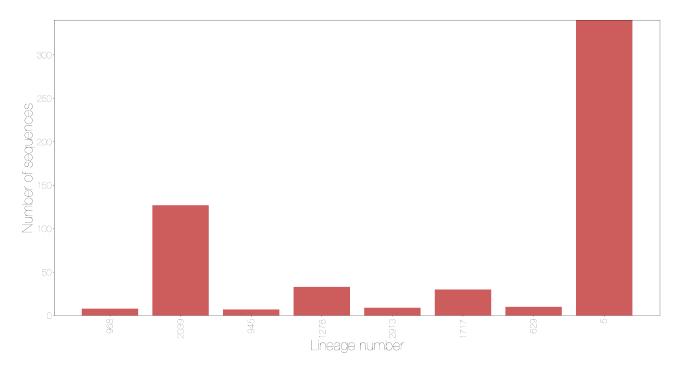


Figure 1: Number of sequences sampled in a lineage by country

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.

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.

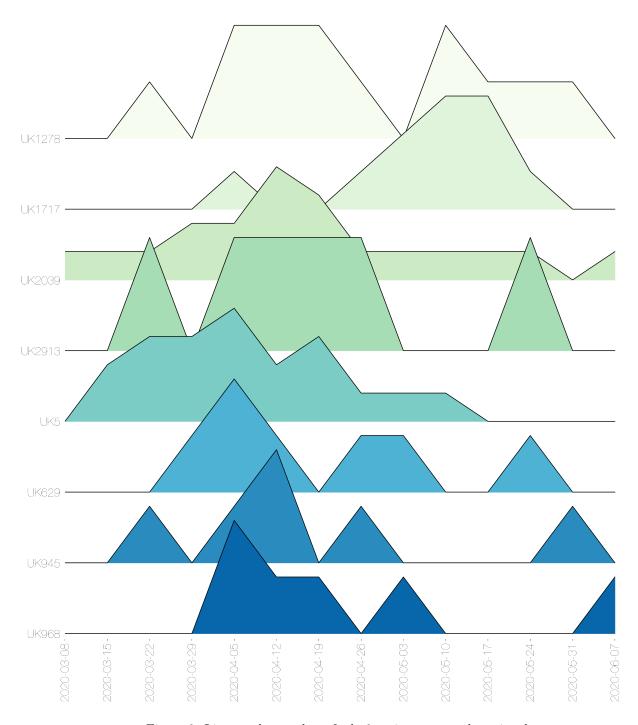


Figure 2: Lineages by number of adm2 regions present by epiweek

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.

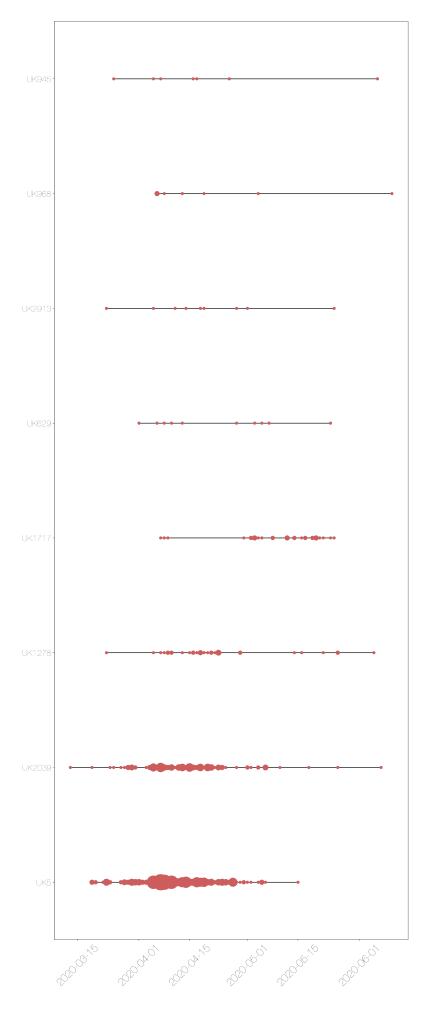


Figure 3: Timeline of lineages, sized by number of sequences from each country.

The date of first sequence in the cluster sampled by OXON is shown in figure five for every cluster with date information.

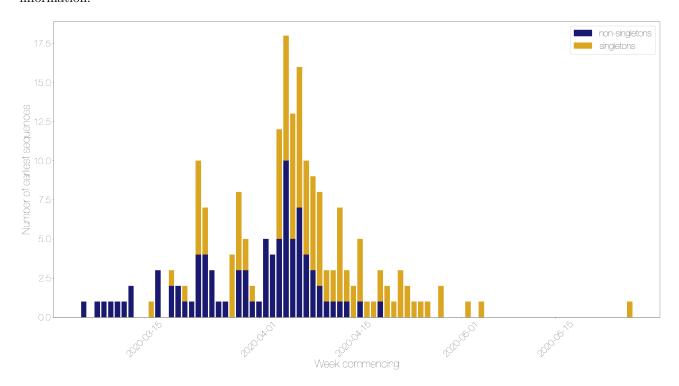


Figure 4: Lineage starts per week, split by singletons and non-singletons

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.

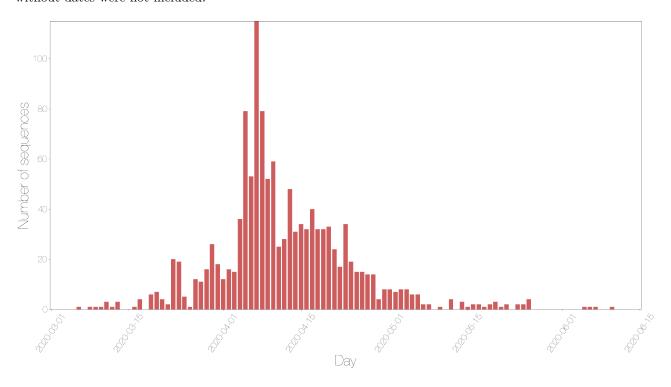


Figure 5: Sequences taken on each day by country

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.

There are 847 sequences without enough geographical information to map

from this centre.

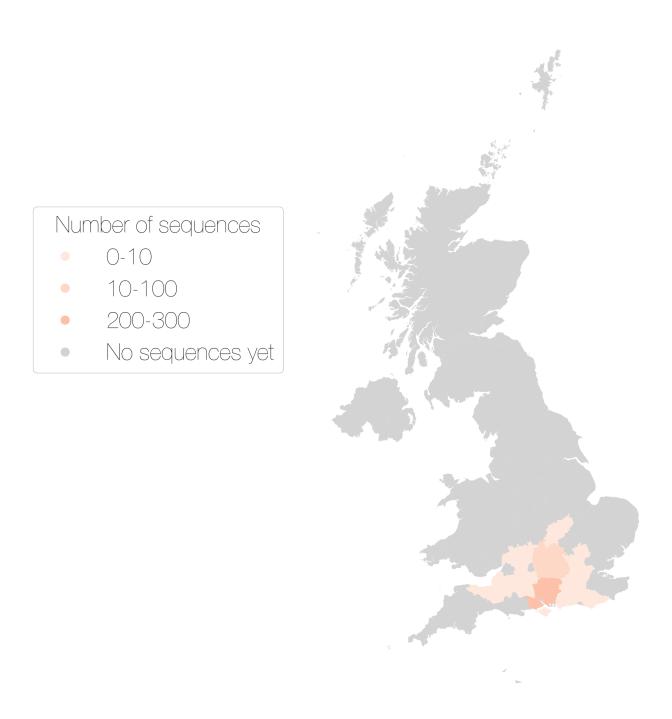


Figure 6: Map showing the number of sequences sampled by adm2 region

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	England	Date range	Global lineage	Total
UK5	340 (100.0%)	Mar-19, May-15	B.1.1, B.1.1.10	340 taxa
UK2039	$127\ (100.0\%)$	Mar-13, Jun-07	B.1.1	127  axa
UK1951	44 (100.0%)	Mar-21, May-07	B.1.1.1, B.1.1	$44  \mathrm{taxa}$
UK1542	41 (100.0%)	Mar-27, Apr-20	B.1.1	$41  \mathrm{taxa}$
UK1278	33 (100.0%)	Mar-23, Jun-05	B.1.1	33  axa
UK1717	30 (100.0%)	Apr-07, May-25	B.1.1	$30  \mathrm{taxa}$
UK175	27 (100.0%)	Mar-30, May-01	B.1	$27  \mathrm{taxa}$
UK902	23 (100.0%)	Apr-04, May-03	B.1.1	$23  \mathrm{taxa}$
UK109	23 (100.0%)	Mar-20, May-06	B.1.99, B.1	$23  \mathrm{taxa}$
UK107	21 (100.0%)	Mar-24, Apr-18	B.2, B.2.1	$21  \mathrm{taxa}$
UK315	18 (100.0%)	Mar-12, Apr-15	B.2.2	18 taxa
UK1630	17 (100.0%)	Mar-20, Apr-30	B.1.1	17 taxa
UK263	14 (100.0%)	Mar-13, Apr-13	B.1	$14  \mathrm{taxa}$
UK597	13 (100.0%)	Mar-25, Apr-26	B.1	13 taxa
UK9	13 (100.0%)	Apr-04, May-03	B.1.13, B.1	13 taxa
UK1157	13 (100.0%)	Apr-05, May-04	B.1.1.7	13 taxa
UK2464	12 (100.0%)	Apr-05, Apr-20	B.1	$12  \mathrm{taxa}$
UK167	12 (100.0%)	Mar-17, Apr-25	B.1	$12  \mathrm{taxa}$
UK387	12 (100.0%)	Mar-06, Apr-20	B.1.21, B.1	$12  \mathrm{taxa}$
UK893	12 (100.0%)	Apr-02, Apr-15	B.1	$12  \mathrm{taxa}$
UK962	11 (100.0%)	Apr-02, Apr-22	B.1.1	11 taxa
UK5498	11 (100.0%)	Mar-09, Apr-20	B.2	11 taxa
UK5741	11 (100.0%)	Mar-30, May-03	B.1	11 taxa
UK199	10 (100.0%)	Apr-03, Apr-28	B.1.5, B.1	$10  \mathrm{taxa}$
UK629	10 (100.0%)	Apr-01, May-24	B.1	$10  \mathrm{taxa}$
UK1126	$10 \ (100.0\%)$	Mar-25, Apr-30	B.1.1	$10  \mathrm{taxa}$
UK5676	9 (100.0%)	Mar-17, Apr-17	B.2	9 taxa
UK2913	9 (100.0%)	Mar-23, May-25	B.1.11, B.1	9 taxa
UK646	8 (100.0%)	Apr-02, Apr-15	B.1.1	8 taxa
UK1091	8 (100.0%)	Apr-07, Apr-27	B.1.1.2, B.1.1	8 taxa
UK72	8 (100.0%)	Mar-22, Apr-24	В	8 taxa
UK366	8 (100.0%)	Apr-11, Apr-24	B.1	8 taxa
UK1683	8 (100.0%)	Mar-17, Apr-30	B.1.1.1, B.1.1	8 taxa
UK968	8 (100.0%)	Apr-06, Jun-10	B.1.1	8 taxa
UK1153	8 (100.0%)	Apr-05, May-01	B.1.1	8 taxa
UK600	8 (100.0%)	Mar-11, Apr-08	B.1.1, B.1	8 taxa
UK619	7 (100.0%)	Apr-05, Apr-17	B.1.1	7 taxa
UK945	7 (100.0%)	Mar-25, Jun-06	B.1.1	7 taxa
UK5525	7 (100.0%)	Apr-16, Apr-29	B.1	7 taxa
UK1037	6 (100.0%)	Apr-05, May-01	B.1.1	6 taxa

 ${\bf Table~S2}~{\rm Raw~data~for~figure~two~showing~lags~between~the~most~recent~sequence~and~current~date~for~each~sequencing~centre$ 

NameError Traceback (most recent call last) in 1 if not pillar2: —-> 2 lag\_df = pd.DataFrame(lag\_dict) 3 print(lag\_df.to\_markdown()) 4 else: 5 print("Table S2 is not appropriate for this report and so has been omitted.") NameError: name 'lag\_dict' is not defined

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

Week commencing	UK5	UK2039	UK1278	UK1717	UK629	UK2913	UK968	UK945
2020-03-08	0	1	0	0	0	0	0	0
2020-03-15	2	1	0	0	0	0	0	0
2020-03-22	3	1	1	0	0	1	0	1
2020-03-29	3	2	0	0	1	0	0	0
2020-04-05	4	2	2	1	2	1	2	1
2020-04-12	2	4	2	0	1	1	1	2

Week commencing	UK5	UK2039	UK1278	UK1717	UK629	UK2913	UK968	UK945
2020-04-19	3	3	2	0	0	1	1	0
2020-04-26	1	1	1	1	1	1	0	1
2020-05-03	1	1	0	2	1	0	1	0
2020-05-10	1	1	2	3	0	0	0	0
2020-05-17	0	1	1	3	0	0	0	0
2020-05-24	0	1	1	1	1	1	0	0
2020-05-31	0	0	1	0	0	0	0	1
2020-06-07	0	1	0	0	0	0	1	0

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

 $\textbf{Table S5} \ \text{Raw data for figure five showing when lineages started per day, divided by singletons and non-singletons}$ 

2020-03-08     0     1       2020-03-10     0     1       2020-03-11     0     1       2020-03-12     0     1       2020-03-12     0     1       2020-03-16     1     0       2020-03-17     0     3       2020-03-19     1     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-24     3     4       2020-03-25     0     3     2       2020-03-26     0     1     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     2       2020-03-30     2     3     2       2020-04-31     1     1     1       2020-04-00     1     1     2       2020-04-01     0     1     1	Day	Number of singleton starts	Number of non-singleton starts	Total
2020-03-08     0     1       2020-03-10     0     1       2020-03-11     0     1       2020-03-12     0     1       2020-03-12     0     1       2020-03-16     1     0       2020-03-16     1     0       2020-03-17     0     3       2020-03-20     0     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-24     3     4     1       2020-03-25     0     3     2       2020-03-26     0     1     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     3       2020-04-30     2     3     2       2020-04-401     0     1     1	2020-03-06	0	1	1
2020-03-10     0     1       2020-03-11     0     1       2020-03-12     0     1       2020-03-13     0     2       2020-03-16     1     0       2020-03-17     0     3       2020-03-20     0     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-24     3     4       2020-03-25     0     3     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     2       2020-03-30     2     3     2       2020-03-31     1     1     1       2020-04-03     0     4     2       2020-04-01     0     1     1       2020-04-02     0     5     2       2020-04-05     8     1	2020-03-08	0	1	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2020-03-09	0	1	1
2020-03-12     0     1       2020-03-13     0     2       2020-03-16     1     0       2020-03-17     0     3       2020-03-19     1     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-23     6     4     1       2020-03-24     3     4       2020-03-25     0     3     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     2       2020-03-30     2     3     2       2020-03-31     1     1     1       2020-04-01     0     1     2       2020-04-02     0     5     2       2020-04-03     0     4     2       2020-04-05     8     10     1       2020-04-06     8     5     1       2020-04-07     9     7     1	2020-03-10	0	1	1
2020-03-13     0     2       2020-03-16     1     0       2020-03-17     0     3       2020-03-19     1     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-23     6     4     1       2020-03-24     3     4     2       2020-03-25     0     3     2       2020-03-26     0     1     2       2020-03-27     0     1     2       2020-03-28     4     0     0       2020-03-30     2     3     2       2020-03-31     1     1     1       2020-04-31     1     1     1       2020-04-02     0     5     2       2020-04-03     0     4     2       2020-04-04     7     5     1       2020-04-05     8     10     1	2020-03-11	0	1	1
2020-03-16     1     0     3       2020-03-17     0     3     2020-03-20     2       2020-03-20     0     2     2     2020-03-21     1     1       2020-03-21     1     1     1     2020-03-22     0     1     2020-03-23     6     4     1     2020-03-23     6     4     1     2020-03-24     3     4     2020-03-25     0     3     2020-03-25     0     3     2020-03-26     0     1     2020-03-26     0     1     2020-03-26     0     1     2020-03-27     0     1     2020-03-28     4     0     2020-03-29     5     3     3     2020-03-29     5     3     3     2020-03-29     5     3     3     2020-03-29     5     3     3     2020-03-29     5     3     3     2020-03-29     5     3     3     2020-04-03     2     3     3     2020-04-03     2     3     2020-04-04     3     4     2020-04-04     4	2020-03-12	0	1	1
2020-03-17   0   3     2020-03-19   1   2     2020-03-21   1   1     2020-03-22   0   1     2020-03-23   6   4   1     2020-03-24   3   4   2020-03-25   0   3     2020-03-25   0   1   2020-03-27   0   1   2020-03-28   4   0   0   2020-03-28   4   0   0   2020-03-29   5   3   2020-03-30   2   3   2020-03-31   1   1   1   2020-04-03   4   2020-04-02   0   5   2020-04-02   0   5   2020-04-03   4   2020-04-03   0   4   2020-04-03   0   4   2020-04-03   0   4   2020-04-03   0   4   2020-04-05   1   1   2020-04-05   1   1   2020-04-05   1   1   1   2020-04-06   8   5   1   1   1   2020-04-06   8   5   1   1   2020-04-06   8   5   1   2020-04-06   2   2020-04-06 <td< td=""><td>2020-03-13</td><td>0</td><td>2</td><td>2</td></td<>	2020-03-13	0	2	2
2020-03-19     1     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-24     3     4       2020-03-25     0     3     2       2020-03-26     0     1     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     2       2020-03-30     2     3     2       2020-03-31     1     1     1       2020-04-01     0     1     2       2020-04-02     0     5     2       2020-04-03     0     4     2       2020-04-03     0     4     2       2020-04-05     8     10     1       2020-04-05     8     10     1       2020-04-06     8     5     1       2020-04-09     6	2020-03-16	1	0	1
2020-03-19     1     2       2020-03-20     0     2       2020-03-21     1     1       2020-03-22     0     1       2020-03-23     6     4     1       2020-03-24     3     4       2020-03-25     0     3     2       2020-03-26     0     1     2       2020-03-27     0     1     2       2020-03-28     4     0     2       2020-03-29     5     3     2       2020-03-30     2     3     2       2020-03-31     1     1     1       2020-04-01     0     1     2       2020-04-02     0     5     2       2020-04-03     0     4     2       2020-04-03     0     4     2       2020-04-05     8     10     1       2020-04-05     8     10     1       2020-04-06     8     5     1       2020-04-09     6		0		3
2020-03-20   0   2     2020-03-21   1   1     2020-03-22   0   1     2020-03-23   6   4   1     2020-03-23   6   4   1     2020-03-24   3   4   2     2020-03-25   0   3   2     2020-03-26   0   1   2     2020-03-27   0   1   2     2020-03-28   4   0   2     2020-03-30   2   3   2     2020-03-30   2   3   2     2020-03-31   1   1   1     2020-04-01   0   1   1     2020-04-02   0   5   2     2020-04-03   0   4   2     2020-04-04   7   5   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-10   6   2   2     2020-04-11   2   1				3
2020-03-21   1   1     2020-03-22   0   1     2020-03-23   6   4   1     2020-03-24   3   4     2020-03-25   0   3   2     2020-03-26   0   1   2     2020-03-27   0   1   2     2020-03-28   4   0   2     2020-03-30   2   3   2     2020-03-31   1   1   1     2020-04-03   2   3   2     2020-04-00   5   2   2     2020-04-03   0   4   2     2020-04-03   0   4   2     2020-04-05   8   10   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-08   6   4   1     2020-04-12   2   1     2020-04-12   2   1   2     2020-04-13   6   1   2 <td></td> <td></td> <td></td> <td>2</td>				2
2020-03-22   0   1     2020-03-23   6   4   1     2020-03-24   3   4     2020-03-25   0   3   2     2020-03-26   0   1   2     2020-03-27   0   1   2     2020-03-28   4   0   2     2020-03-29   5   3   2     2020-03-30   2   3   2     2020-03-31   1   1   1     2020-04-01   0   1   2     2020-04-02   0   5   2     2020-04-03   0   4   2     2020-04-03   0   4   2     2020-04-05   8   10   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-09   6   3   2     2020-04-10   6   2   2     2020-04-11   2   1   2     2020-04-12   2 <td></td> <td></td> <td></td> <td>2</td>				2
2020-03-23   6   4   1     2020-03-24   3   4     2020-03-25   0   3     2020-03-26   0   1     2020-03-27   0   1     2020-03-28   4   0     2020-03-29   5   3     2020-03-30   2   3     2020-03-31   1   1     2020-04-01   0   1     2020-04-02   0   5     2020-04-03   0   4     2020-04-03   0   4     2020-04-04   7   5   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-08   6   4   1     2020-04-10   6   2   2     2020-04-11   2   1   2     2020-04-12   2   1   2     2020-04-13   6   1   1     2020-04-15   2   0   2     2020-04-16				1
2020-03-24   3   4     2020-03-25   0   3     2020-03-26   0   1     2020-03-27   0   1     2020-03-28   4   0     2020-03-29   5   3     2020-03-30   2   3     2020-03-31   1   1     2020-04-01   0   1     2020-04-02   0   5     2020-04-03   0   4     2020-04-04   7   5   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-08   6   4   1     2020-04-09   6   3   3     2020-04-10   6   2   2     2020-04-11   2   1   2     2020-04-12   2   1   2     2020-04-13   6   1   1   2     2020-04-16   4   1   1   2   0     2020-04-17   1				10
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				1
2020-03-28   4   0     2020-03-29   5   3     2020-03-30   2   3     2020-03-31   1   1     2020-04-01   0   1     2020-04-02   0   5     2020-04-03   0   4     2020-04-04   7   5   1     2020-04-05   8   10   1     2020-04-06   8   5   1     2020-04-07   9   7   1     2020-04-08   6   4   1     2020-04-10   6   2   2     2020-04-11   2   1   2     2020-04-12   2   1   2     2020-04-13   6   1   2     2020-04-14   2   1   2     2020-04-15   2   0   0     2020-04-17   1   0   0     2020-04-18   1   0   0     2020-04-19   2   1   0     2020-04-20   2   0   0     2020-04-21				1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				$\frac{3}{2}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				5
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				12
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				18
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				13
2020-04-08   6   4   1     2020-04-09   6   3     2020-04-10   6   2     2020-04-11   2   1     2020-04-12   2   1     2020-04-13   6   1     2020-04-14   2   1     2020-04-15   2   0     2020-04-16   4   1     2020-04-17   1   0     2020-04-18   1   0     2020-04-19   2   1     2020-04-20   2   0     2020-04-21   1   0				16
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				9
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				8
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				3 7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				$\frac{3}{2}$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
2020-04-18 1 0   2020-04-19 2 1   2020-04-20 2 0   2020-04-21 1 0				5
2020-04-19   2   1     2020-04-20   2   0     2020-04-21   1   0				1
2020-04-20 2 0 2020-04-21 1 0				1
2020-04-21 1 0				3
				2
2020-04-22 3 0				1
	2020-04-22	3	0	3

Day	Number of singleton starts	Number of non-singleton starts	Total
2020-04-23	2	0	2
2020-04-24	1	0	1
2020-04-25	1	0	1
2020-04-26	1	0	1
2020-04-28	2	0	2
2020-05-02	1	0	1
2020-05-04	1	0	1
2020-05-26	1	0	1

 ${\bf Table~S6~{\rm Raw~data~for~figure~six~showing~the~number~of~sequences~taken~over~time.}$ 

Day	England
2020-03-06	1
2020-03-08	1
2020-03-09	1
2020-03-10	1
2020-03-11	3
2020-03-12	1
2020-03-13	3
2020-03-16	1
2020-03-17	4
2020-03-19	6
2020-03-20	7
2020-03-21 2020-03-22	$\frac{4}{2}$
2020-03-22	$\frac{2}{20}$
2020-03-23	19
2020-03-24	5
2020-03-26	1
2020-03-27	12
2020-03-28	11
2020-03-29	16
2020-03-30	26
2020 - 03 - 31	18
2020-04-01	12
2020-04-02	16
2020-04-03	15
2020-04-04	36
2020-04-05	79 50
2020-04-06	53
2020-04-07 2020-04-08	115
2020-04-08	79 52
2020-04-09	52 59
2020-04-10	25
2020-04-12	28
2020-04-13	48
2020-04-14	31
2020-04-15	34
2020-04-16	32
2020-04-17	40
2020-04-18	32
2020-04-19	32
2020-04-20	33
2020-04-21	24
2020-04-22	17
2020-04-23	34
2020-04-24	19

Day	England
2020-04-25	15
2020-04-26	15
2020-04-27	14
2020-04-28	14
2020-04-29	4
2020-04-30	8
2020-05-01	8
2020-05-02	7
2020-05-03	8
2020-05-04	8
2020-05-05	6
2020-05-06	6
2020-05-07	2
2020-05-08	2
2020-05-10	1
2020-05-12	4
2020-05-14	3
2020-05-15	1
2020-05-16	2
2020-05-17	2
2020-05-18	1
2020-05-19	2
2020-05-20	3
2020-05-21	1
2020-05-22	2
2020-05-24	2
2020-05-25	2
2020-05-26	4
2020-06-05	1
2020-06-06	1
2020-06-07	1
2020-06-10	1

 $\textbf{Table S7} \ \text{Raw data for the figure seven with the number of sequences assigned to each admin 2 region.}$ 

Admin2	Country	Number of sequences	Sequence group
BERKSHIRE	England	17	10-100
BUCKINGHAMSHIRE	England	11	10-100
GLOUCESTERSHIRE	England	1	1-10
GREATER LONDON	England	1	1-10
HAMPSHIRE	England	283	200-300
HERTFORDSHIRE	England	2	1-10
ISLE OF WIGHT	England	1	1-10
NORTHAMPTONSHIRE	England	1	1-10
OXFORDSHIRE	England	87	10-100
SOMERSET	England	1	1-10
SURREY	England	2	1-10
SUSSEX	England	3	1-10
WILTSHIRE	England	2	1-10