

## Summary report for UK introductions

This report gives summaries of UK specific lineages for week 2020-05-08. There are time lags due to batching, curation and analysis, the most recently sampled sequence is 2020-05-02. The analysis (eg time since last sample) is therefore undertaken from this date. 14277 sequences in the UK have been included in this analysis. 6430 lineages have been recorded, 5368 of which only contain one sequence.

Note: 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.

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

6151 are introductions which only contained five sequences or fewer, and so have been left out of visualisation in the interests of clarity

Of the 279 that remain: 76 are pending extinction, ie last seen three weeks ago. 12 have not been seen for more than one month, and so are viewed as extinct, but will continue to be monitored. 135 lineages have gone quiet, ie haven't been seen this week. 9 lineages have reactivated. 47 lineages have been continuously circulating.

The following table contains information about lineages and the number of sequences in each country in the UK for each lineage, in reverse size order. 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.

It is also written to "summary\_files" as "introduction\_summary.tsv" for further use.

| Introduction | Northern<br>Ireland | Wales           | Scotland       | England         | Date<br>range     | Total<br>sequences | Global<br>lineage | Time since last<br>sample (days) |
|--------------|---------------------|-----------------|----------------|-----------------|-------------------|--------------------|-------------------|----------------------------------|
| UK5          | 3 (0.4%)            | 85<br>(11.23%)  | 36<br>(4.76%)  | 633<br>(83.62%) | Mar-03,<br>Apr-30 | 757                | B.1.1             | 2                                |
| UK47         | 2 (0.33%)           | 365<br>(59.35%) | 7<br>(1.14%)   | 241<br>(39.19%) | Feb-23,<br>Apr-23 | 615                | B, B.3            | 9                                |
| UK17         | 0 (0%)              | 63<br>(11.52%)  | 74<br>(13.53%) | 410<br>(74.95%) | Mar-09,<br>Apr-30 | 547                | B.1.11            | 2                                |
| UK30         | 1 (0.83%)           | 0 (0%)          | 79<br>(65.83%) | 40<br>(33.33%)  | Mar-18,<br>Apr-27 | 120                | B.1               | 5                                |
| UK67         | 0 (0%)              | 95<br>(84.07%)  | 0 (0%)         | 18<br>(15.93%)  | Mar-20,<br>Apr-12 | 113                | B.1,<br>B.1.24    | 20                               |
| UK10         | 0 (0%)              | 86<br>(91.49%)  | 0 (0%)         | 8<br>(8.51%)    | Mar-07,<br>Apr-17 | 94                 | B.1               | 15                               |
| UK76         | 0 (0%)              | 0 (0%)          | 90<br>(98.9%)  | 1<br>(1.1%)     | Mar-16,<br>Apr-27 | 91                 | B.1               | 5                                |
| UK18         | 0 (0%)              | 3<br>(4.23%)    | 0 (0%)         | 68<br>(95.77%)  | Mar-11,<br>Apr-20 | 71                 | B.2,<br>B.2.4     | 12                               |
| UK45         | 0 (0%)              | 0 (0%)          | 67<br>(95.71%) | 3<br>(4.29%)    | Mar-13,<br>Apr-23 | 70                 | B, B.8            | 9                                |
| UK24         | 0 (0%)              | 0 (0%)          | 0 (0%)         | 68<br>(100.0%)  | Mar-15,<br>Apr-21 | 68                 | B.2,<br>B.2.1     | 11                               |
| UK4          | 0 (0%)              | 14<br>(22.58%)  | 0 (0%)         | 48<br>(77.42%)  | Mar-02,<br>Apr-30 | 62                 | B.8               | 2                                |
| UK4136       | 0 (0%)              | 2<br>(3.39%)    | 0 (0%)         | 57<br>(96.61%)  | Mar-19,<br>Apr-18 | 59                 | B.1               | 14                               |

|              | Northern       |              |                |                | Date              | Total     | Global         | Time since last |
|--------------|----------------|--------------|----------------|----------------|-------------------|-----------|----------------|-----------------|
| Introduction | Ireland        | Wales        | Scotland       | England        | range             | sequences | lineage        | sample (days)   |
| UK74         | 0 (0%)         | 0 (0%)       | 0 (0%)         | 58<br>(100.0%) | Mar-21,<br>Apr-28 | 58        | B.1            | 4               |
| UK61         | 0 (0%)         | 1<br>(1.82%) | 0 (0%)         | 54<br>(98.18%) | Mar-17,<br>Apr-25 | 55        | B.1.30         | 7               |
| UK58         | 35<br>(64.81%) | 0 (0%)       | 7<br>(12.96%)  | 12<br>(22.22%) | Mar-13,<br>Apr-22 | 54        | B              | 10              |
| UK139        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 53<br>(100.0%) | Mar-19,<br>Apr-13 | 53        | B.1            | 19              |
| UK105        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 50<br>(100.0%) | Mar-11,<br>Apr-18 | 50        | B.1            | 14              |
| UK133        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 50<br>(100.0%) | Mar-15,<br>Apr-20 | 50        | B.2.1          | 12              |
| UK3734       | 0 (0%)         | 0 (0%)       | 0 (0%)         | 49<br>(100.0%) | Mar-20,<br>Apr-27 | 49        | B.1            | 5               |
| UK9          | 0 (0%)         | 0 (0%)       | 0 (0%)         | 49<br>(100.0%) | Feb-24,<br>Apr-19 | 49        | B.1            | 13              |
| UK126        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 47<br>(100.0%) | Mar-12,<br>Apr-19 | 47        | B.2,<br>B.2.1  | 13              |
| UK159        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 46<br>(100.0%) | Mar-21,<br>Apr-29 | 46        | B.1            | 3               |
| UK6521       | 0 (0%)         | 0 (0%)       | 0 (0%)         | 44<br>(100.0%) | Mar-19,<br>Apr-14 | 44        | B.1            | 18              |
| UK142        | 0 (0%)         | 0 (0%)       | 19<br>(43.18%) | 25<br>(56.82%) | Mar-26,<br>May-01 | 44        | B.1            | 1               |
| UK41         | 0 (0%)         | 1<br>(2.27%) | 43<br>(97.73%) | 0 (0%)         | Mar-12,<br>Apr-27 | 44        | A.2            | 5               |
| UK92         | 0 (0%)         | 0 (0%)       | 43<br>(100.0%) | 0 (0%)         | Mar-22,<br>May-01 | 43        | B.1.19,<br>B.1 | 1               |
| UK1373       | 0 (0%)         | 0 (0%)       | 0 (0%)         | 41<br>(100.0%) | Mar-28,<br>Apr-16 | 41        | B.1            | 16              |
| UK51         | 1 (2.44%)      | 1<br>(2.44%) | 39<br>(95.12%) | 0 (0%)         | Mar-17,<br>May-01 | 41        | B              | 1               |
| UK20         | 2 (5.0%)       | 2<br>(5.0%)  | 35<br>(87.5%)  | 1<br>(2.5%)    | Mar-13,<br>Apr-10 | 40        | B.2            | 22              |
| UK137        | 0 (0%)         | 1<br>(2.56%) | 0 (0%)         | 38<br>(97.44%) | Mar-25,<br>Apr-26 | 39        | B.1            | 6               |
| UK14         | 0 (0%)         | 2<br>(5.13%) | 2<br>(5.13%)   | 35<br>(89.74%) | Mar-03,<br>Apr-24 | 39        | B              | 8               |
| UK28         | 0 (0%)         | 0 (0%)       | 1<br>(2.56%)   | 38<br>(97.44%) | Mar-18,<br>Apr-25 | 39        | B.1            | 7               |
| UK103        | 0 (0%)         | 0 (0%)       | 0 (0%)         | 38<br>(100.0%) | Mar-15,<br>Apr-20 | 38        | B.1            | 12              |
| UK3701       | 0 (0%)         | 0 (0%)       | 0 (0%)         | 37<br>(100.0%) | Apr-07,<br>Apr-27 | 37        | B.1            | 5               |
| UK4931       | 0 (0%)         | 0 (0%)       | 0 (0%)         | 36<br>(100.0%) | Mar-23,<br>Apr-26 | 36        | B.2.1          | 6               |
| UK2          | 0 (0%)         | 0 (0%)       | 0 (0%)         | 36<br>(100.0%) | Mar-01,<br>Apr-27 | 36        | B.1.20         | 5               |

|              | Northern |                |                |                | Date              | Total     | Global        | Time since last |
|--------------|----------|----------------|----------------|----------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland  | Wales          | Scotland       | England        | range             | sequences | lineage       | sample (days)   |
| UK135        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 36<br>(100.0%) | Mar-20,<br>Apr-17 | 36        | B.1.13        | 15              |
| UK15         | 0 (0%)   | 33<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-23,<br>Apr-13 | 33        | B.1           | 19              |
| UK52         | 0 (0%)   | 5<br>(15.15%)  | 0 (0%)         | 28<br>(84.85%) | Mar-11,<br>Apr-14 | 33        | B             | 18              |
| UK836        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 33<br>(100.0%) | Mar-11,<br>Apr-21 | 33        | B.1           | 11              |
| UK3737       | 0 (0%)   | 0 (0%)         | 0 (0%)         | 32<br>(100.0%) | Mar-29,<br>Apr-28 | 32        | B.1           | 4               |
| UK3738       | 0 (0%)   | 0 (0%)         | 0 (0%)         | 32<br>(100.0%) | Mar-31,<br>Apr-15 | 32        | B.1           | 17              |
| UK111        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 29<br>(100.0%) | Mar-16,<br>Apr-05 | 29        | B.1           | 27              |
| UK44         | 0 (0%)   | 0 (0%)         | 0 (0%)         | 29<br>(100.0%) | Mar-19,<br>Apr-29 | 29        | B.2           | 3               |
| UK369        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 28<br>(100.0%) | Mar-29,<br>Apr-29 | 28        | B.1           | 3               |
| UK8          | 0 (0%)   | 1<br>(3.7%)    | 0 (0%)         | 26<br>(96.3%)  | Mar-05,<br>Apr-07 | 27        | B.2.1         | 25              |
| UK350        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 26<br>(100.0%) | Mar-24,<br>Apr-26 | 26        | B.1           | 6               |
| UK112        | 0 (0%)   | 1<br>(3.85%)   | 0 (0%)         | 25<br>(96.15%) | Mar-12,<br>Apr-17 | 26        | B             | 15              |
| UK162        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 26<br>(100.0%) | Feb-25,<br>Apr-01 | 26        | B.2.1         | 31              |
| UK96         | 0 (0%)   | 0 (0%)         | 0 (0%)         | 25<br>(100.0%) | Mar-19,<br>Apr-27 | 25        | B.1           | 5               |
| UK53         | 0 (0%)   | 0 (0%)         | 0 (0%)         | 24<br>(100.0%) | Mar-10,<br>Apr-11 | 24        | B.2.1         | 21              |
| UK63         | 0 (0%)   | 9<br>(39.13%)  | 14<br>(60.87%) | 0 (0%)         | Mar-18,<br>Apr-18 | 23        | B.1           | 14              |
| UK3702       | 0 (0%)   | 0 (0%)         | 0 (0%)         | 23<br>(100.0%) | Apr-10,<br>Apr-23 | 23        | B.1           | 9               |
| UK1970       | 0 (0%)   | 0 (0%)         | 23<br>(100.0%) | 0 (0%)         | Apr-08,<br>Apr-30 | 23        | B.1.5         | 2               |
| UK123        | 0 (0%)   | 5<br>(21.74%)  | 0 (0%)         | 18<br>(78.26%) | Mar-01,<br>Apr-19 | 23        | B.1           | 13              |
| UK35         | 0 (0%)   | 8<br>(34.78%)  | 13<br>(56.52%) | 2<br>(8.7%)    | Mar-19,<br>May-01 | 23        | B.1.5,<br>B.1 | 1               |
| UK173        | 0 (0%)   | 0 (0%)         | 0 (0%)         | 23<br>(100.0%) | Mar-16,<br>Apr-19 | 23        | B.1           | 13              |
| UK34         | 0 (0%)   | 0 (0%)         | 0 (0%)         | 22<br>(100.0%) | Mar-14,<br>Apr-02 | 22        | B.2.1         | 30              |
| UK50         | 0 (0%)   | 1<br>(4.55%)   | 0 (0%)         | 21<br>(95.45%) | Mar-13,<br>Apr-05 | 22        | B.2.1         | 27              |
| UK3193       | 0 (0%)   | 0 (0%)         | 0 (0%)         | 22<br>(100.0%) | Mar-20,<br>Apr-26 | 22        | B.1           | 6               |

|              | Northern |        |          |         | Date                               | Total     | Global         | Time since last |
|--------------|----------|--------|----------|---------|------------------------------------|-----------|----------------|-----------------|
| Introduction | Ireland  | Wales  | Scotland | England | range                              | sequences | lineage        | sample (days)   |
| UK49         | 0 (0%)   | 0 (0%) | 0 (0%)   | 22      | Mar-17,<br>(100.0%) Apr-26         | 22        | B.1            | 6               |
| UK66         | 0 (0%)   | 0 (0%) | 15       | 6       | Mar-04,<br>(71.43%)(28.57%) Apr-02 | 21        | B              | 30              |
| UK140        | 0 (0%)   | 0 (0%) | 0 (0%)   | 21      | Mar-25,<br>(100.0%) Apr-19         | 21        | B.1            | 13              |
| UK129        | 0 (0%)   | 0 (0%) | 0 (0%)   | 21      | Mar-16,<br>(100.0%) Apr-21         | 21        | B.1            | 11              |
| UK95         | 0 (0%)   | 0 (0%) | 6        | 15      | Feb-27,<br>(28.57%)(71.43%) Mar-18 | 21        | B              | 45              |
| UK72         | 0 (0%)   | 0 (0%) | 0 (0%)   | 21      | Mar-21,<br>(100.0%) Apr-23         | 21        | B.1            | 9               |
| UK22         | 0 (0%)   | 0 (0%) | 0 (0%)   | 20      | Mar-13,<br>(100.0%) Apr-27         | 20        | B.1            | 5               |
| UK60         | 0 (0%)   | 0 (0%) | 20       | 0 (0%)  | Mar-18,<br>(100.0%) Apr-27         | 20        | B.1            | 5               |
| UK165        | 0 (0%)   | 0 (0%) | 0 (0%)   | 20      | Feb-27,<br>(100.0%) Mar-08         | 20        | B.1.7          | 55              |
| UK2900       | 0 (0%)   | 1      | 18       | 0 (0%)  | Mar-22,<br>(5.26%)(94.74%) Apr-25  | 19        | B.1            | 7               |
| UK3906       | 0 (0%)   | 0 (0%) | 1        | 18      | Mar-23,<br>(5.26%)(94.74%) Apr-29  | 19        | B.1            | 3               |
| UK6522       | 0 (0%)   | 0 (0%) | 0 (0%)   | 19      | Mar-30,<br>(100.0%) Apr-13         | 19        | B.1            | 19              |
| UK93         | 0 (0%)   | 0 (0%) | 19       | 0 (0%)  | Mar-21,<br>(100.0%) Apr-22         | 19        | B.1            | 10              |
| UK3854       | 0 (0%)   | 5      | 0 (0%)   | 14      | Mar-01,<br>(26.32%)(73.68%) Apr-12 | 19        | B.1            | 20              |
| UK3707       | 0 (0%)   | 0 (0%) | 1        | 18      | Mar-14,<br>(5.26%)(94.74%) Apr-26  | 19        | B.1            | 6               |
| UK36         | 0 (0%)   | 0 (0%) | 2        | 17      | Mar-25,<br>(10.53%)(89.47%) Apr-28 | 19        | B.1            | 4               |
| UK153        | 0 (0%)   | 0 (0%) | 0 (0%)   | 18      | Mar-21,<br>(100.0%) Apr-16         | 18        | B.1.5          | 16              |
| UK187        | 0 (0%)   | 0 (0%) | 0 (0%)   | 18      | Feb-28,<br>(100.0%) Apr-04         | 18        | B.2,<br>B.2.1  | 28              |
| UK131        | 0 (0%)   | 0 (0%) | 0 (0%)   | 18      | Mar-21,<br>(100.0%) Apr-11         | 18        | B.1            | 21              |
| UK3704       | 0 (0%)   | 0 (0%) | 0 (0%)   | 17      | Mar-13,<br>(100.0%) Apr-22         | 17        | B.1.10,<br>B.1 | 10              |
| UK1312       | 0 (0%)   | 0 (0%) | 0 (0%)   | 17      | Mar-20,<br>(100.0%) Apr-30         | 17        | B.1            | 2               |
| UK114        | 0 (0%)   | 0 (0%) | 0 (0%)   | 17      | Mar-14,<br>(100.0%) Apr-16         | 17        | B.2.1          | 16              |
| UK715        | 0 (0%)   | 0 (0%) | 0 (0%)   | 17      | Mar-19,<br>(100.0%) Apr-18         | 17        | B.1.5          | 14              |
| UK3778       | 0 (0%)   | 0 (0%) | 15       | 1       | Mar-25,<br>(93.75%)(6.25%) Apr-26  | 16        | B.1            | 6               |

|              | Northern  |                |                |                | Date              | Total     | Global        | Time since last |
|--------------|-----------|----------------|----------------|----------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland   | Wales          | Scotland       | England        | range             | sequences | lineage       | sample (days)   |
| UK197        | 1 (6.25%) | 8<br>(50.0%)   | 3<br>(18.75%)  | 4<br>(25.0%)   | Mar-30,<br>Apr-24 | 16        | B.1           | 8               |
| UK1292       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 16<br>(100.0%) | Mar-23,<br>Apr-10 | 16        | B.1           | 22              |
| UK110        | 0 (0%)    | 16<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-23,<br>Apr-07 | 16        | B.1           | 25              |
| UK12         | 0 (0%)    | 0 (0%)         | 16<br>(100.0%) | 0 (0%)         | Mar-06,<br>Mar-20 | 16        | B.1           | 43              |
| UK21         | 0 (0%)    | 0 (0%)         | 0 (0%)         | 16<br>(100.0%) | Mar-13,<br>Apr-14 | 16        | B.2           | 18              |
| UK1231       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 15<br>(100.0%) | Mar-20,<br>Apr-14 | 15        | B.1           | 18              |
| UK3831       | 0 (0%)    | 0 (0%)         | 1<br>(6.67%)   | 14<br>(93.33%) | Mar-28,<br>Apr-15 | 15        | B.1           | 17              |
| UK3761       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 15<br>(100.0%) | Apr-03,<br>Apr-27 | 15        | B.1           | 5               |
| UK89         | 0 (0%)    | 0 (0%)         | 15<br>(100.0%) | 0 (0%)         | Mar-13,<br>Apr-15 | 15        | B.1           | 17              |
| UK3886       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 15<br>(100.0%) | Apr-05,<br>Apr-09 | 15        | B.1           | 23              |
| UK976        | 0 (0%)    | 0 (0%)         | 0 (0%)         | 14<br>(100.0%) | Mar-24,<br>Apr-10 | 14        | B.1           | 22              |
| UK3759       | 0 (0%)    | 0 (0%)         | 2<br>(14.29%)  | 12<br>(85.71%) | Mar-13,<br>Apr-30 | 14        | B.1           | 2               |
| UK1458       | 0 (0%)    | 14<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-23,<br>Apr-09 | 14        | B.1           | 23              |
| UK109        | 0 (0%)    | 7<br>(50.0%)   | 2<br>(14.29%)  | 5<br>(35.71%)  | Mar-12,<br>Apr-13 | 14        | B.1.7,<br>B.1 | 19              |
| UK5700       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 14<br>(100.0%) | Mar-27,<br>Apr-15 | 14        | B.1           | 17              |
| UK1055       | 0 (0%)    | 1<br>(7.69%)   | 0 (0%)         | 12<br>(92.31%) | Mar-30,<br>Apr-27 | 13        | B.1           | 5               |
| UK668        | 0 (0%)    | 0 (0%)         | 0 (0%)         | 13<br>(100.0%) | Mar-27,<br>Apr-23 | 13        | B.1           | 9               |
| UK3298       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 13<br>(100.0%) | Apr-04,<br>Apr-24 | 13        | B.1           | 8               |
| UK2062       | 0 (0%)    | 0 (0%)         | 13<br>(100.0%) | 0 (0%)         | Apr-18,<br>Apr-30 | 13        | B.1.5         | 2               |
| UK5303       | 0 (0%)    | 7<br>(53.85%)  | 2<br>(15.38%)  | 4<br>(30.77%)  | Mar-20,<br>Apr-13 | 13        | B.2.2         | 19              |
| UK3827       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 13<br>(100.0%) | Mar-18,<br>Apr-11 | 13        | B.1           | 21              |
| UK4088       | 0 (0%)    | 0 (0%)         | 0 (0%)         | 13<br>(100.0%) | Mar-30,<br>Apr-14 | 13        | B.1           | 18              |
| UK1065       | 0 (0%)    | 0 (0%)         | 1<br>(7.69%)   | 12<br>(92.31%) | Feb-13,<br>Apr-22 | 13        | B.2           | 10              |
| UK184        | 0 (0%)    | 13<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-28,<br>Apr-13 | 13        | B.1           | 19              |

|              | Northern      |                |                |                | Date              | Total     | Global        | Time since last |
|--------------|---------------|----------------|----------------|----------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland       | Wales          | Scotland       | England        | range             | sequences | lineage       | sample (days)   |
| UK3921       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Mar-29,<br>Apr-27 | 12        | B.1           | 5               |
| UK37         | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Mar-29,<br>Apr-16 | 12        | B.1.7,<br>B.1 | 16              |
| UK291        | 0 (0%)        | 10<br>(83.33%) | 0 (0%)         | 2<br>(16.67%)  | Mar-27,<br>Apr-13 | 12        | B.1.5,<br>B.1 | 19              |
| UK38         | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Mar-13,<br>Apr-02 | 12        | B.1           | 30              |
| UK196        | 0 (0%)        | 3<br>(25.0%)   | 1<br>(8.33%)   | 8<br>(66.67%)  | Mar-26,<br>Apr-18 | 12        | B.1           | 14              |
| UK146        | 0 (0%)        | 12<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-18,<br>Apr-09 | 12        | B.2.2         | 23              |
| UK205        | 0 (0%)        | 1<br>(8.33%)   | 2<br>(16.67%)  | 9<br>(75.0%)   | Mar-27,<br>Apr-25 | 12        | B.1           | 7               |
| UK3747       | 0 (0%)        | 1<br>(8.33%)   | 0 (0%)         | 11<br>(91.67%) | Apr-01,<br>Apr-26 | 12        | B.1           | 6               |
| UK566        | 0 (0%)        | 0 (0%)         | 12<br>(100.0%) | 0 (0%)         | Apr-01,<br>May-02 | 12        | B.1           | 0               |
| UK1849       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Mar-06,<br>Mar-14 | 12        | B             | 49              |
| UK1258       | 0 (0%)        | 7<br>(58.33%)  | 0 (0%)         | 5<br>(41.67%)  | Mar-28,<br>Apr-30 | 12        | B.1           | 2               |
| UK3767       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Apr-01,<br>Apr-20 | 12        | B.1           | 12              |
| UK77         | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Mar-12,<br>Apr-17 | 12        | B.1           | 15              |
| UK3708       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 12<br>(100.0%) | Apr-04,<br>Apr-23 | 12        | B.1           | 9               |
| UK2810       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Apr-12,<br>Apr-23 | 11        | B.1           | 9               |
| UK4002       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Mar-29,<br>Apr-14 | 11        | B.1           | 18              |
| UK7          | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Mar-07,<br>Apr-03 | 11        | B.8           | 29              |
| UK4172       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Feb-15,<br>Mar-05 | 11        | B.1           | 58              |
| UK1124       | 0 (0%)        | 1<br>(9.09%)   | 0 (0%)         | 10<br>(90.91%) | Mar-27,<br>Apr-25 | 11        | B.1           | 7               |
| UK2840       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Mar-27,<br>Apr-13 | 11        | B.1.7,<br>B.1 | 19              |
| UK939        | 7<br>(63.64%) | 1<br>(9.09%)   | 3<br>(27.27%)  | 0 (0%)         | Mar-11,<br>Apr-02 | 11        | B             | 30              |
| UK2899       | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Apr-06,<br>Apr-30 | 11        | B.1           | 2               |
| UK124        | 0 (0%)        | 2<br>(18.18%)  | 0 (0%)         | 9<br>(81.82%)  | Mar-23,<br>Mar-30 | 11        | B.1           | 33              |
| UK94         | 0 (0%)        | 0 (0%)         | 0 (0%)         | 11<br>(100.0%) | Mar-16,<br>Apr-11 | 11        | B.2           | 21              |

|              | Northern  |              |                |                | Date              | Total     | Global        | Time since last |
|--------------|-----------|--------------|----------------|----------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland   | Wales        | Scotland       | England        | range             | sequences | lineage       | sample (days)   |
| UK118        | 0 (0%)    | 1<br>(9.09%) | 2<br>(18.18%)  | 8<br>(72.73%)  | Mar-17,<br>Apr-13 | 11        | B.2           | 19              |
| UK2572       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 11<br>(100.0%) | Apr-08,<br>Apr-22 | 11        | B.1.11        | 10              |
| UK3740       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 11<br>(100.0%) | Mar-28,<br>Apr-17 | 11        | B.1           | 15              |
| UK899        | 0 (0%)    | 0 (0%)       | 0 (0%)         | 11<br>(100.0%) | Mar-20,<br>Apr-06 | 11        | B.2,<br>B.2.1 | 26              |
| UK132        | 0 (0%)    | 0 (0%)       | 11<br>(100.0%) | 0 (0%)         | Mar-13,<br>Apr-05 | 11        | B.2           | 27              |
| UK2270       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 11<br>(100.0%) | Apr-13,<br>Apr-27 | 11        | B.1           | 5               |
| UK3774       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 11<br>(100.0%) | Apr-20,<br>Apr-21 | 11        | B.1           | 11              |
| UK3760       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Apr-04,<br>Apr-27 | 10        | B.1           | 5               |
| UK2038       | 0 (0%)    | 0 (0%)       | 10<br>(100.0%) | 0 (0%)         | Apr-13,<br>Apr-29 | 10        | B.1.5         | 3               |
| UK43         | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Mar-13,<br>Apr-13 | 10        | B.2,<br>B.2.1 | 19              |
| UK3710       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Mar-22,<br>Apr-11 | 10        | B.1           | 21              |
| UK690        | 1 (10.0%) | 0 (0%)       | 0 (0%)         | 9<br>(90.0%)   | Mar-26,<br>Apr-07 | 10        | B.1           | 25              |
| UK720        | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Feb-28,<br>Mar-08 | 10        | B.2,<br>B.2.1 | 55              |
| UK1184       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Mar-15,<br>Apr-08 | 10        | B.1           | 24              |
| UK1586       | 0 (0%)    | 0 (0%)       | 10<br>(100.0%) | 0 (0%)         | Mar-19,<br>Apr-08 | 10        | A.3           | 24              |
| UK42         | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Feb-26,<br>Mar-15 | 10        | B.1           | 48              |
| UK57         | 0 (0%)    | 1<br>(10.0%) | 0 (0%)         | 9<br>(90.0%)   | Mar-16,<br>Mar-30 | 10        | B.8           | 33              |
| UK3731       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Apr-07,<br>Apr-24 | 10        | B.1           | 8               |
| UK3411       | 0 (0%)    | 0 (0%)       | 9<br>(90.0%)   | 1<br>(10.0%)   | Apr-04,<br>Apr-28 | 10        | B.1           | 4               |
| UK4735       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Mar-31,<br>Apr-14 | 10        | B.1           | 18              |
| UK730        | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Mar-26,<br>Apr-20 | 10        | B.1           | 12              |
| UK3754       | 0 (0%)    | 1<br>(10.0%) | 0 (0%)         | 9<br>(90.0%)   | Apr-07,<br>Apr-22 | 10        | B.1           | 10              |
| UK2571       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Apr-01,<br>Apr-21 | 10        | B.1.11        | 11              |
| UK2060       | 0 (0%)    | 0 (0%)       | 0 (0%)         | 10<br>(100.0%) | Apr-08,<br>Apr-23 | 10        | B.1.5         | 9               |

|              | Northern |               |                |                | Date              | Total     | Global        | Time since last |
|--------------|----------|---------------|----------------|----------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland  | Wales         | Scotland       | England        | range             | sequences | lineage       | sample (days)   |
| UK2025       | 0 (0%)   | 0 (0%)        | 10<br>(100.0%) | 0 (0%)         | Apr-05,<br>Apr-22 | 10        | B.1.5         | 10              |
| UK3775       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 10<br>(100.0%) | Mar-28,<br>Apr-04 | 10        | B.1           | 28              |
| UK1433       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 10<br>(100.0%) | Feb-15,<br>Mar-06 | 10        | B.4           | 57              |
| UK3471       | 0 (0%)   | 9<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-29,<br>Apr-09 | 9         | B.1           | 23              |
| UK3812       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-30,<br>Apr-12 | 9         | B.1           | 20              |
| UK59         | 0 (0%)   | 9<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-14,<br>Apr-08 | 9         | B.2.1         | 24              |
| UK179        | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-18,<br>Apr-27 | 9         | B.1.10        | 5               |
| UK25         | 0 (0%)   | 1<br>(11.11%) | 1<br>(11.11%)  | 7<br>(77.78%)  | Mar-10,<br>Apr-08 | 9         | B.2.2,<br>B.2 | 24              |
| UK3755       | 0 (0%)   | 2<br>(22.22%) | 0 (0%)         | 7<br>(77.78%)  | Mar-24,<br>Apr-24 | 9         | B.1           | 8               |
| UK4930       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-29,<br>Apr-08 | 9         | B.2.1         | 24              |
| UK104        | 0 (0%)   | 5<br>(55.56%) | 0 (0%)         | 4<br>(44.44%)  | Mar-21,<br>Apr-13 | 9         | B.1           | 19              |
| UK5381       | 0 (0%)   | 0 (0%)        | 9<br>(100.0%)  | 0 (0%)         | Mar-24,<br>Apr-05 | 9         | B.2           | 27              |
| UK3197       | 0 (0%)   | 9<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-30,<br>Apr-12 | 9         | B.1           | 20              |
| UK69         | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-15,<br>Apr-17 | 9         | B.2.1         | 15              |
| UK2240       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-23,<br>Apr-12 | 9         | B.1           | 20              |
| UK3888       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-30,<br>Apr-13 | 9         | B.1           | 19              |
| UK3728       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Mar-19,<br>Apr-11 | 9         | B.1           | 21              |
| UK3765       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 9<br>(100.0%)  | Apr-10,<br>Apr-28 | 9         | B.1           | 4               |
| UK158        | 0 (0%)   | 0 (0%)        | 0 (0%)         | 8<br>(100.0%)  | Mar-10,<br>Apr-22 | 8         | B.2.1         | 10              |
| UK138        | 0 (0%)   | 7<br>(87.5%)  | 1<br>(12.5%)   | 0 (0%)         | Mar-20,<br>Apr-05 | 8         | B.2.1         | 27              |
| UK1632       | 0 (0%)   | 0 (0%)        | 0 (0%)         | 8<br>(100.0%)  | Mar-01,<br>Mar-08 | 8         | B.4           | 55              |
| UK3860       | 0 (0%)   | 8<br>(100.0%) | 0 (0%)         | 0 (0%)         | Apr-05,<br>Apr-12 | 8         | B.1           | 20              |
| UK141        | 0 (0%)   | 8<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-25,<br>Apr-13 | 8         | B.1           | 19              |
| UK351        | 0 (0%)   | 8<br>(100.0%) | 0 (0%)         | 0 (0%)         | Mar-24,<br>Apr-08 | 8         | B.1           | 24              |



| Introduction | Northern |            |            |            | Date range     | Total sequences | Global lineage | Time since last sample (days) |
|--------------|----------|------------|------------|------------|----------------|-----------------|----------------|-------------------------------|
|              | Ireland  | Wales      | Scotland   | England    |                |                 |                |                               |
| UK2161       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-27, Apr-06 | 8               | B.1.13         | 26                            |
| UK1109       | 0 (0%)   | 5 (62.5%)  | 0 (0%)     | 3 (37.5%)  | Mar-21, Apr-13 | 8               | B.2.1          | 19                            |
| UK46         | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-18, Apr-16 | 8               | B.1            | 16                            |
| UK3572       | 0 (0%)   | 8 (100.0%) | 0 (0%)     | 0 (0%)     | Mar-30, Apr-12 | 8               | B.1            | 20                            |
| UK613        | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-29, Apr-15 | 8               | B.1.7          | 17                            |
| UK78         | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-10, Apr-06 | 8               | B.2.1          | 26                            |
| UK1252       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-20, Apr-10 | 8               | B              | 22                            |
| UK208        | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-25, Apr-15 | 8               | B.2.1          | 17                            |
| UK6523       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-20, Apr-11 | 8               | B.1            | 21                            |
| UK560        | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-18, Apr-14 | 8               | B.2            | 18                            |
| UK5735       | 0 (0%)   | 7 (87.5%)  | 0 (0%)     | 1 (12.5%)  | Mar-26, Apr-13 | 8               | B.1            | 19                            |
| UK4009       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-31, Apr-26 | 8               | B.1            | 6                             |
| UK5973       | 0 (0%)   | 0 (0%)     | 8 (100.0%) | 0 (0%)     | Apr-24, Apr-30 | 8               | B.1.5          | 2                             |
| UK13         | 0 (0%)   | 2 (25.0%)  | 1 (12.5%)  | 5 (62.5%)  | Mar-03, Apr-07 | 8               | B.2            | 25                            |
| UK1420       | 0 (0%)   | 1 (12.5%)  | 1 (12.5%)  | 6 (75.0%)  | Mar-23, Apr-16 | 8               | B.1            | 16                            |
| UK1179       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-26, Apr-14 | 8               | B.1            | 18                            |
| UK1112       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Mar-20, Apr-03 | 8               | B.1.13         | 29                            |
| UK3703       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 8 (100.0%) | Apr-10, Apr-20 | 8               | B.1            | 12                            |
| UK2070       | 0 (0%)   | 0 (0%)     | 7 (100.0%) | 0 (0%)     | Apr-15, Apr-27 | 7               | B.1.5          | 5                             |
| UK4643       | 0 (0%)   | 0 (0%)     | 1 (14.29%) | 6 (85.71%) | Mar-12, Apr-08 | 7               | B.1            | 24                            |
| UK561        | 0 (0%)   | 6 (85.71%) | 0 (0%)     | 1 (14.29%) | Mar-27, Apr-21 | 7               | B.1            | 11                            |
| UK793        | 0 (0%)   | 7 (100.0%) | 0 (0%)     | 0 (0%)     | Mar-27, Apr-10 | 7               | B.1            | 22                            |
| UK3022       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 7 (100.0%) | Mar-23, Apr-13 | 7               | B.1            | 19                            |
| UK3299       | 0 (0%)   | 0 (0%)     | 0 (0%)     | 7 (100.0%) | Mar-21, Apr-17 | 7               | B.1            | 15                            |

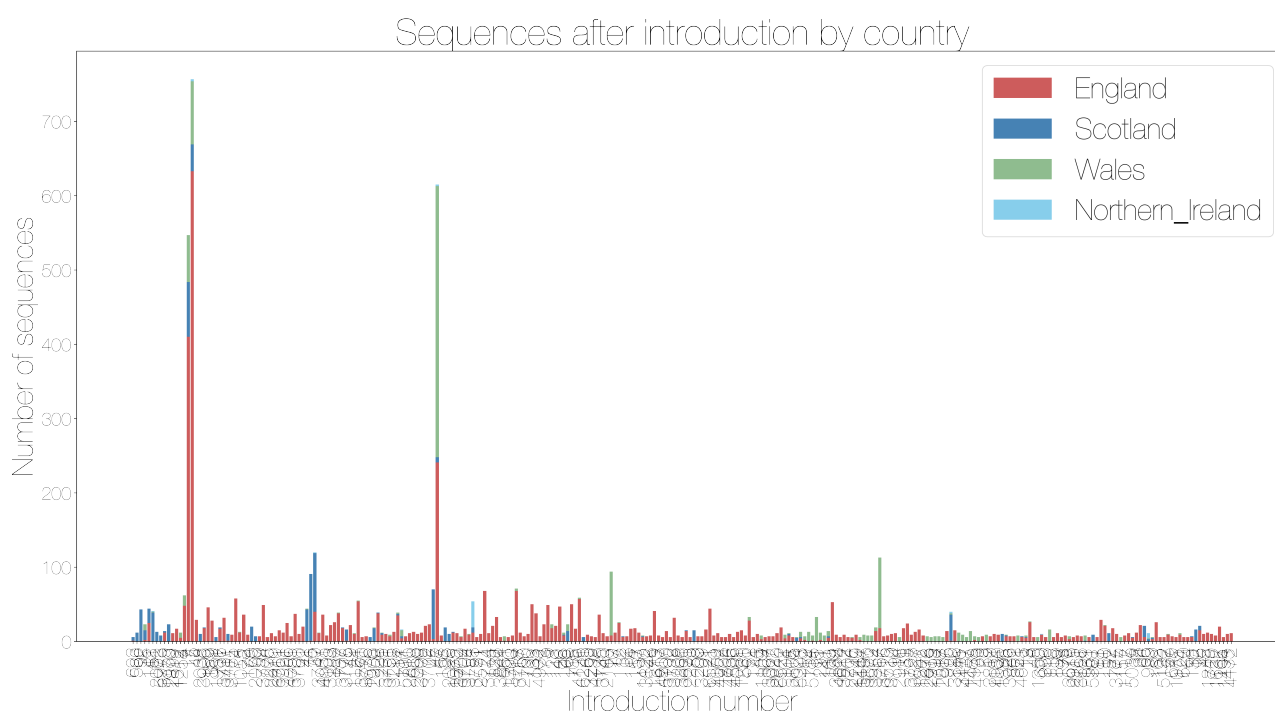
|              | Northern |               |               |               | Date              | Total     | Global        | Time since last |
|--------------|----------|---------------|---------------|---------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland  | Wales         | Scotland      | England       | range             | sequences | lineage       | sample (days)   |
| UK552        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-24,<br>Apr-08 | 7         | B.1           | 24              |
| UK3986       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-30,<br>Apr-08 | 7         | B.1           | 24              |
| UK32         | 0 (0%)   | 0 (0%)        | 1<br>(14.29%) | 6<br>(85.71%) | Mar-05,<br>Apr-17 | 7         | B.2.2         | 15              |
| UK1018       | 0 (0%)   | 7<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-25,<br>Apr-10 | 7         | B.1           | 22              |
| UK3367       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-28,<br>Apr-13 | 7         | B.1.10        | 19              |
| UK3209       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-31,<br>Apr-14 | 7         | B.1           | 18              |
| UK3736       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-09,<br>Apr-25 | 7         | B.1           | 7               |
| UK2160       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-29,<br>Apr-20 | 7         | B.1.13        | 12              |
| UK200        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-04,<br>Apr-14 | 7         | B.2.1         | 18              |
| UK99         | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-22,<br>Apr-27 | 7         | B.1           | 5               |
| UK2163       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-06,<br>Apr-17 | 7         | B.1.13        | 15              |
| UK3810       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-31,<br>Apr-08 | 7         | B.1           | 24              |
| UK33         | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-16,<br>Apr-16 | 7         | B.2.1         | 16              |
| UK2878       | 0 (0%)   | 7<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-30,<br>Apr-10 | 7         | B.1           | 22              |
| UK978        | 0 (0%)   | 5<br>(71.43%) | 0 (0%)        | 2<br>(28.57%) | Mar-20,<br>Apr-09 | 7         | B.2.1         | 23              |
| UK3822       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-02,<br>Apr-16 | 7         | B.1           | 16              |
| UK19         | 0 (0%)   | 5<br>(71.43%) | 0 (0%)        | 2<br>(28.57%) | Mar-06,<br>Apr-13 | 7         | B.1           | 19              |
| UK130        | 0 (0%)   | 0 (0%)        | 1<br>(14.29%) | 6<br>(85.71%) | Mar-17,<br>Mar-27 | 7         | B.2,<br>B.2.1 | 36              |
| UK2910       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-02,<br>Apr-27 | 7         | B.1           | 5               |
| UK23         | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-11,<br>Apr-08 | 7         | B.2.2         | 24              |
| UK4932       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-22,<br>Apr-19 | 7         | B.2.1         | 13              |
| UK4055       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-04,<br>Apr-27 | 7         | B.1           | 5               |
| UK649        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-04,<br>Mar-30 | 7         | B.1           | 33              |
| UK5701       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-31,<br>Apr-23 | 7         | B.1           | 9               |

|              | Northern |               |               |               | Date              | Total     | Global        | Time since last |
|--------------|----------|---------------|---------------|---------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland  | Wales         | Scotland      | England       | range             | sequences | lineage       | sample (days)   |
| UK3709       | 0 (0%)   | 1<br>(14.29%) | 0 (0%)        | 6<br>(85.71%) | Apr-07,<br>Apr-22 | 7         | B.1           | 10              |
| UK3656       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Mar-26,<br>Apr-06 | 7         | B.1           | 26              |
| UK3678       | 0 (0%)   | 4<br>(57.14%) | 0 (0%)        | 3<br>(42.86%) | Mar-21,<br>Apr-06 | 7         | B.1           | 26              |
| UK3716       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 7<br>(100.0%) | Apr-01,<br>Apr-12 | 7         | B.1           | 20              |
| UK1961       | 0 (0%)   | 0 (0%)        | 6<br>(100.0%) | 0 (0%)        | Apr-20,<br>Apr-28 | 6         | B.1.5         | 4               |
| UK188        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-13,<br>Apr-05 | 6         | B.2           | 27              |
| UK4624       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-29,<br>Apr-12 | 6         | B.1           | 20              |
| UK1444       | 0 (0%)   | 4<br>(66.67%) | 0 (0%)        | 2<br>(33.33%) | Mar-22,<br>Apr-12 | 6         | B.2           | 20              |
| UK2915       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-26,<br>Apr-06 | 6         | B.1           | 26              |
| UK1975       | 0 (0%)   | 0 (0%)        | 6<br>(100.0%) | 0 (0%)        | Apr-13,<br>Apr-25 | 6         | B.1.5         | 7               |
| UK5132       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-21,<br>Mar-30 | 6         | B.2,<br>B.2.1 | 33              |
| UK3844       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-05,<br>Apr-21 | 6         | B.1           | 11              |
| UK4807       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-31,<br>Apr-15 | 6         | B.1           | 17              |
| UK951        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-21,<br>Apr-05 | 6         | B.1           | 27              |
| UK80         | 0 (0%)   | 1<br>(16.67%) | 2<br>(33.33%) | 3<br>(50.0%)  | Mar-20,<br>Apr-01 | 6         | B.1           | 31              |
| UK4137       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Apr-02,<br>Apr-09 | 6         | B.1           | 23              |
| UK206        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-25,<br>Apr-27 | 6         | B.1           | 5               |
| UK5039       | 0 (0%)   | 0 (0%)        | 1<br>(16.67%) | 5<br>(83.33%) | Mar-18,<br>Apr-02 | 6         | B.2,<br>B.2.1 | 30              |
| UK1075       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-24,<br>Mar-30 | 6         | B.1           | 33              |
| UK620        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-24,<br>Mar-29 | 6         | B.2.1         | 34              |
| UK864        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-13,<br>Apr-13 | 6         | B.2.1         | 19              |
| UK198        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-20,<br>Apr-06 | 6         | B.2.2         | 26              |
| UK4738       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-04,<br>Apr-17 | 6         | B.1           | 15              |
| UK204        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-20,<br>Apr-12 | 6         | B.1.13        | 20              |

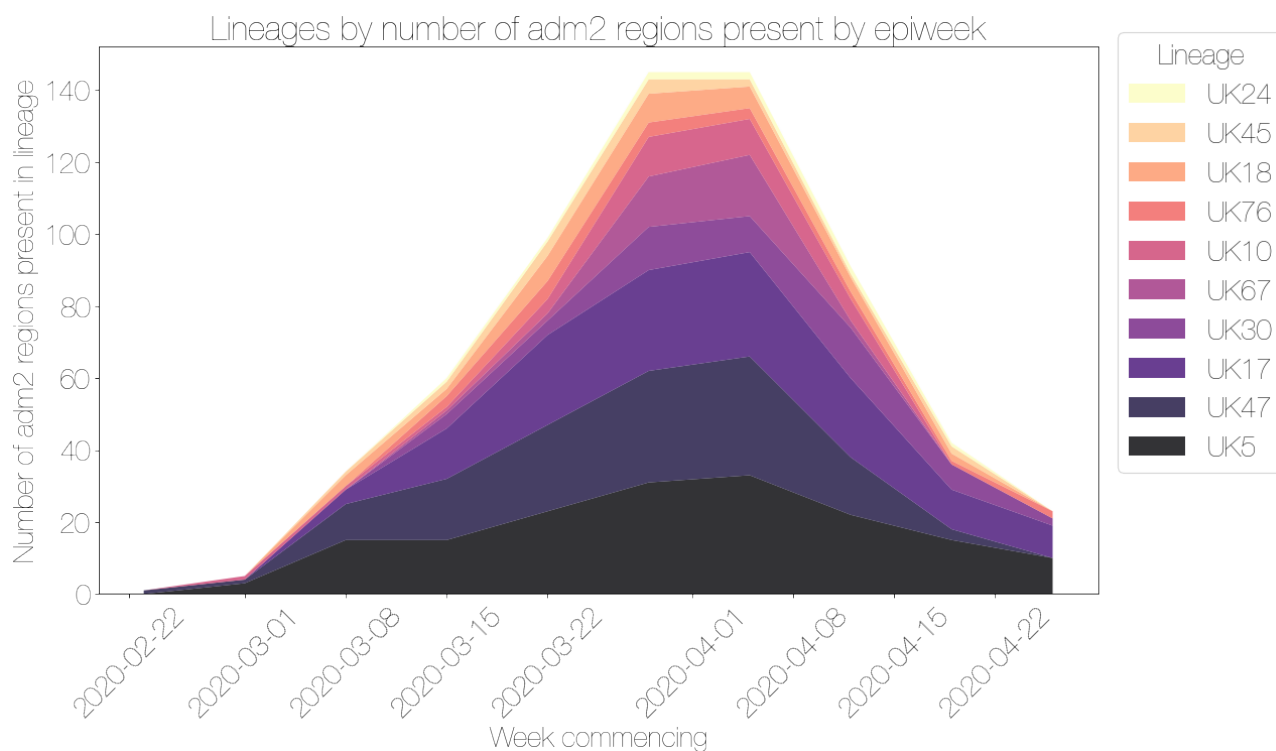
| Introduction | Northern |               |               |               | Date range        | Total sequences | Global lineage | Time since last sample (days) |
|--------------|----------|---------------|---------------|---------------|-------------------|-----------------|----------------|-------------------------------|
|              | Ireland  | Wales         | Scotland      | England       |                   |                 |                |                               |
| UK2024       | 0 (0%)   | 1<br>(16.67%) | 5<br>(83.33%) | 0 (0%)        | Mar-18,<br>Apr-13 | 6               | B.1.5          | 19                            |
| UK157        | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-24,<br>Apr-03 | 6               | B.1.5          | 29                            |
| UK3192       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-03,<br>Apr-15 | 6               | B.1            | 17                            |
| UK2736       | 0 (0%)   | 1<br>(16.67%) | 0 (0%)        | 5<br>(83.33%) | Mar-19,<br>Apr-12 | 6               | B.1.7          | 20                            |
| UK2279       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-03,<br>Apr-15 | 6               | B.1            | 17                            |
| UK356        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-23,<br>Apr-07 | 6               | B.2.1          | 25                            |
| UK2916       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Apr-05,<br>Apr-11 | 6               | B.1            | 21                            |
| UK6241       | 0 (0%)   | 0 (0%)        | 6<br>(100.0%) | 0 (0%)        | Apr-13,<br>Apr-18 | 6               | B.1.10         | 14                            |
| UK4806       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-05,<br>Apr-14 | 6               | B.1            | 18                            |
| UK2919       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-31,<br>Apr-10 | 6               | B.1            | 22                            |
| UK1350       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-28,<br>Apr-07 | 6               | B.1            | 25                            |
| UK174        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-23,<br>Apr-14 | 6               | B.1            | 18                            |
| UK4133       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)        | 0 (0%)        | Mar-27,<br>Apr-09 | 6               | B.1            | 23                            |
| UK48         | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-06,<br>Apr-07 | 6               | B.2            | 25                            |
| UK3870       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-02,<br>Apr-25 | 6               | B.1            | 7                             |
| UK3805       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-30,<br>Apr-13 | 6               | B.1            | 19                            |
| UK1390       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-01,<br>Apr-20 | 6               | B.2.1          | 12                            |
| UK4228       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-30,<br>Apr-14 | 6               | B.1            | 18                            |
| UK3366       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Apr-03,<br>Apr-15 | 6               | B.1.10         | 17                            |
| UK693        | 0 (0%)   | 0 (0%)        | 5<br>(83.33%) | 1<br>(16.67%) | Mar-31,<br>May-02 | 6               | B.1.11         | 0                             |
| UK1494       | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-01,<br>Mar-07 | 6               | B.1            | 56                            |
| UK120        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-20,<br>Mar-31 | 6               | B.1.7,<br>B.1  | 32                            |
| UK804        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-18,<br>Apr-14 | 6               | B.1            | 18                            |
| UK115        | 0 (0%)   | 0 (0%)        | 0 (0%)        | 6<br>(100.0%) | Mar-16,<br>Apr-06 | 6               | B.8            | 26                            |

|              | Northern |               |          |               | Date              | Total     | Global        | Time since last |
|--------------|----------|---------------|----------|---------------|-------------------|-----------|---------------|-----------------|
| Introduction | Ireland  | Wales         | Scotland | England       | range             | sequences | lineage       | sample (days)   |
| UK2867       | 0 (0%)   | 6<br>(100.0%) | 0 (0%)   | 0 (0%)        | Apr-05,<br>Apr-10 | 6         | B.1           | 22              |
| UK54         | 0 (0%)   | 0 (0%)        | 0 (0%)   | 6<br>(100.0%) | Mar-14,<br>Mar-28 | 6         | B.2,<br>B.2.1 | 35              |
| UK3781       | 0 (0%)   | 0 (0%)        | 0 (0%)   | 6<br>(100.0%) | Mar-31,<br>Apr-21 | 6         | B.1           | 11              |

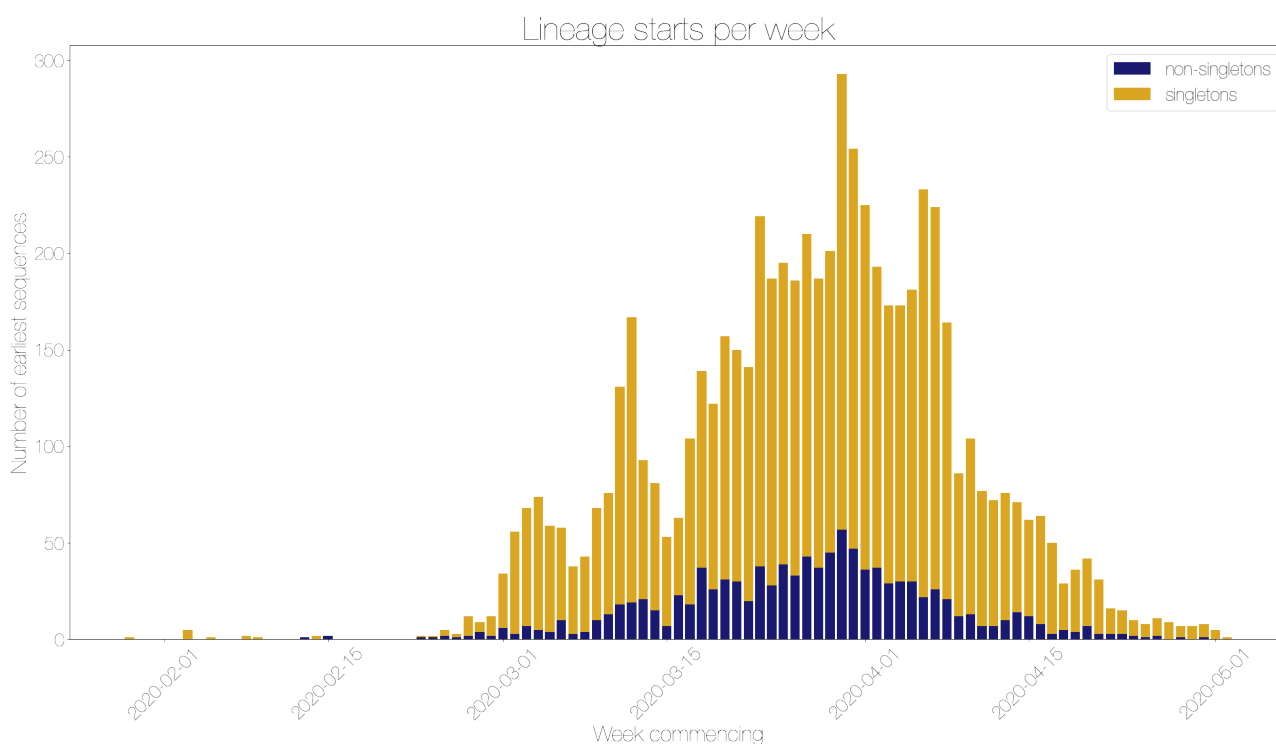
These data is represented in the stacked bar chart below. Note that the number of sequences is likely to be due more to differing sampling efforts in different regions, rather than genuine differences in numbers of cases.



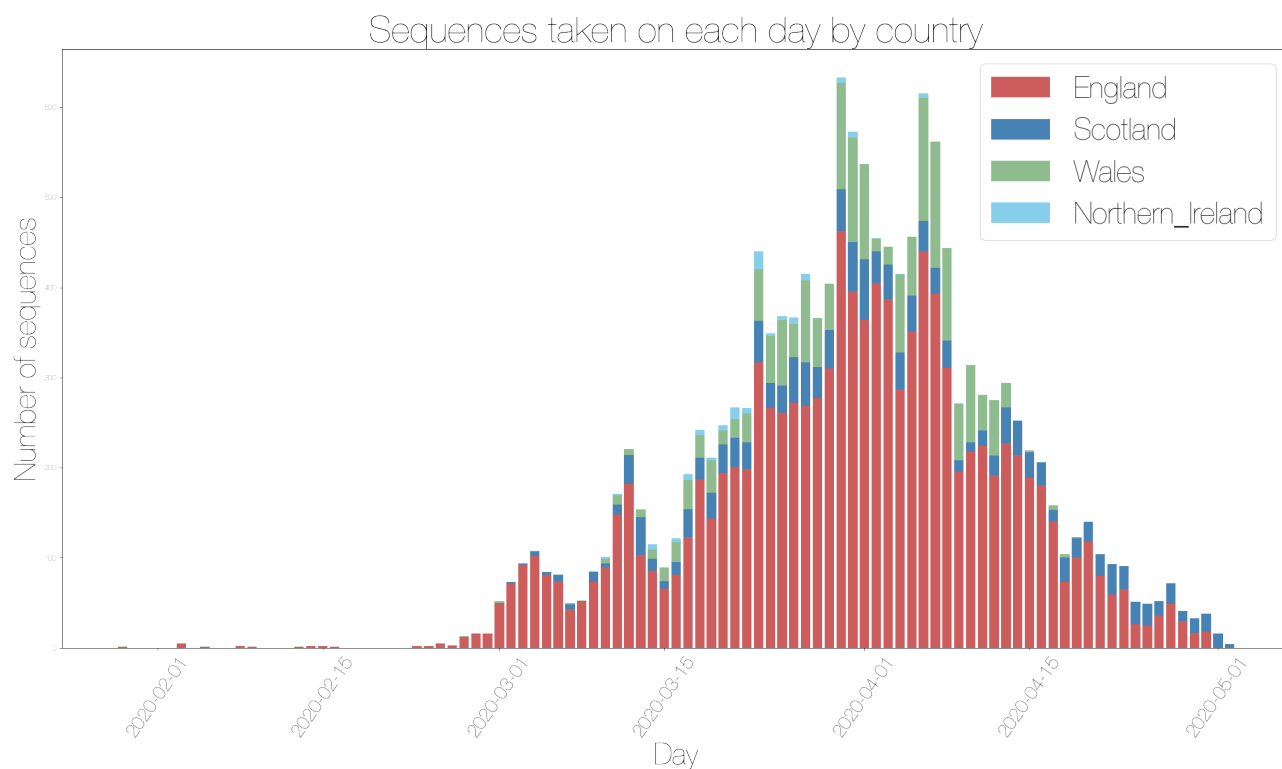
The relative growth and decline of the ten most sampled lineages in terms of number of counties they are present in is shown below.



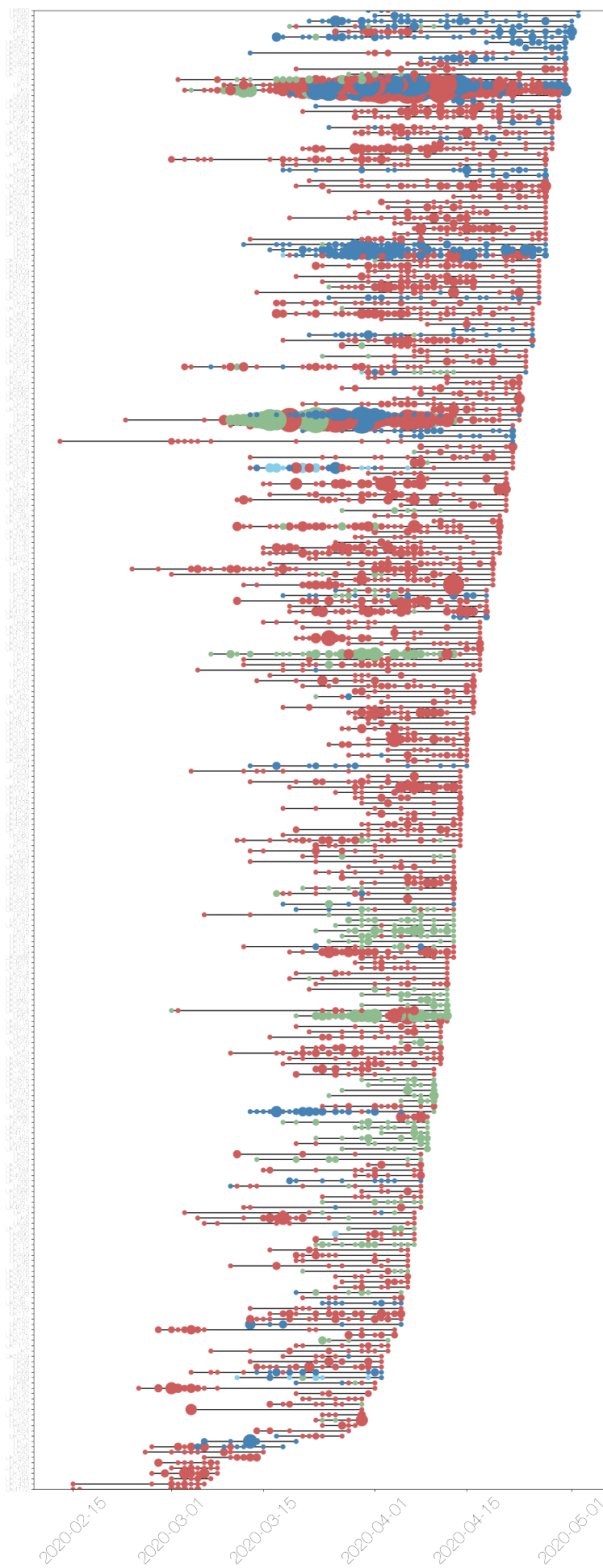
The date of first sequence in the cluster is shown below for every cluster with date information.



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.

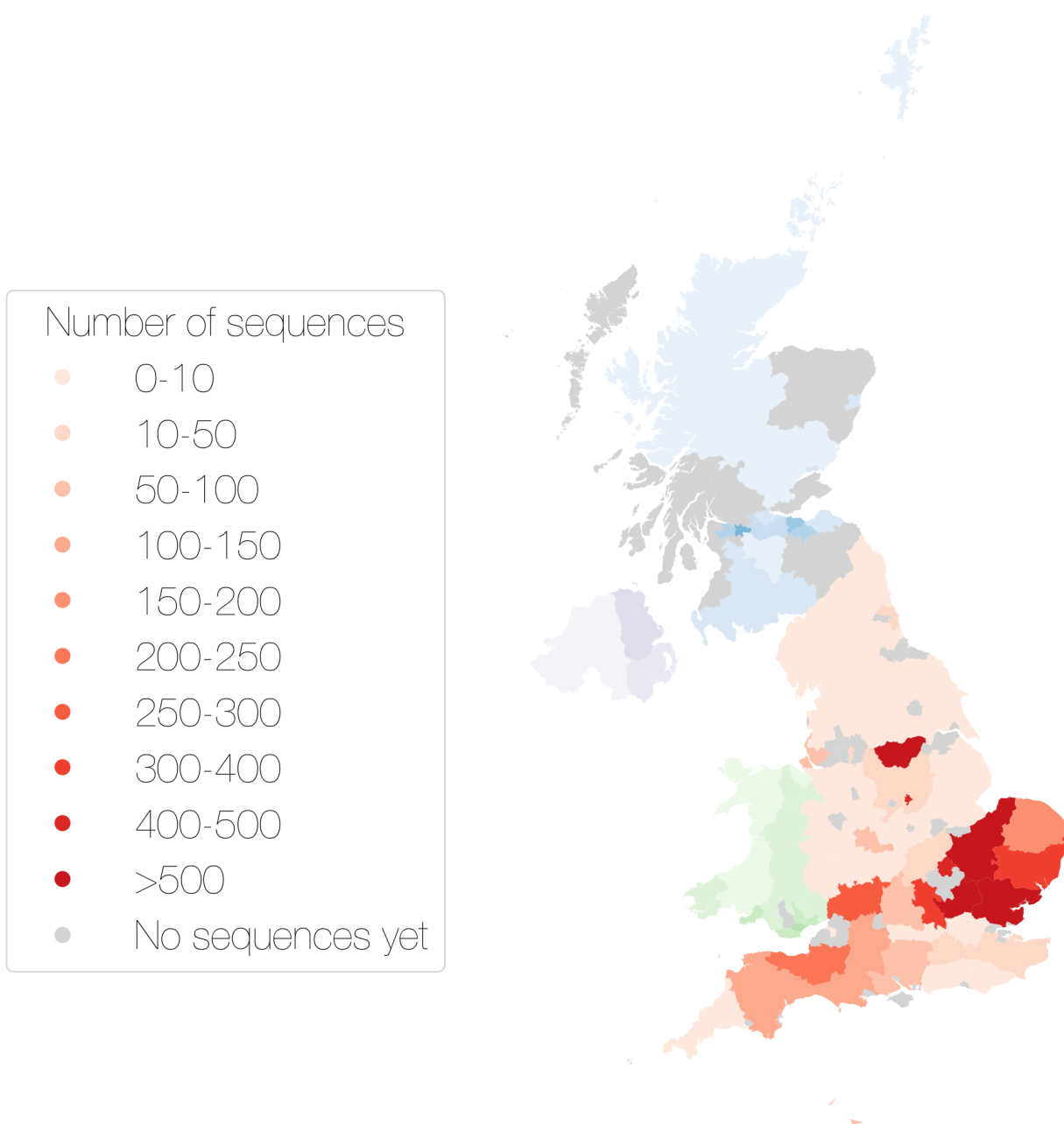


These introductions are shown on the timeline below. Each line represents the length of the cluster, from oldest to most recent sampling date. The dots are sized by the number of sequences taken on that date, and again are colour coded by country.





## COVID-19 sequences from each Admin2 region UK



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

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

Appendix

The plot below shows the number of sequences from each country that don't have specific enough location data to plot on the map.

