

## 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 Ireland	Wales	Scotland	England	Date range	Total sequences	Global lineage	Time since last sample (days)
UK5	3 (0.4%)	85 (11.23%)	36 (4.76%)	633 (83.62%)	Mar-03, Apr-30	757	B.1.1	2
UK47	2 (0.33%)	365 (59.35%)	7 (1.14%)	241 (39.19%)	Feb-23, Apr-23	615	B, B.3	9
UK17	0 (0%)	63 (11.52%)	74 (13.53%)	410 (74.95%)	Mar-09, Apr-30	547	B.1.11	2
UK30	1 (0.83%)	0 (0%)	79 (65.83%)	40 (33.33%)	Mar-18, Apr-27	120	B.1	5
UK67	0 (0%)	95 (84.07%)	0 (0%)	18 (15.93%)	Mar-20, Apr-12	113	B.1, B.1.24	20
UK10	0 (0%)	86 (91.49%)	0 (0%)	8 (8.51%)	Mar-07, Apr-17	94	B.1	15
UK76	0 (0%)	0 (0%)	90 (98.9%)	1 (1.1%)	Mar-16, Apr-27	91	B.1	5
UK18	0 (0%)	3 (4.23%)	0 (0%)	68 (95.77%)	Mar-11, Apr-20	71	B.2.4, B.2	12
UK45	0 (0%)	0 (0%)	67 (95.71%)	3 (4.29%)	Mar-13, Apr-23	70	B.8, B	9
UK24	0 (0%)	0 (0%)	0 (0%)	68 (100.0%)	Mar-15, Apr-21	68	B.2.1, B.2	11
UK4	0 (0%)	14 (22.58%)	0 (0%)	48 (77.42%)	Mar-02, Apr-30	62	B.8	2
UK4136	0 (0%)	2 (3.39%)	0 (0%)	57 (96.61%)	Mar-19, 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 (100.0%)	Mar-21, Apr-28	58	B.1	4
UK61	0 (0%)	1 (1.82%)	0 (0%)	54 (98.18%)	Mar-17, Apr-25	55	B.1.30	7
UK58	35 (64.81%)	0 (0%)	7 (12.96%)	12 (22.22%)	Mar-13, Apr-22	54	B	10
UK139	0 (0%)	0 (0%)	0 (0%)	53 (100.0%)	Mar-19, Apr-13	53	B.1	19
UK105	0 (0%)	0 (0%)	0 (0%)	50 (100.0%)	Mar-11, Apr-18	50	B.1	14
UK133	0 (0%)	0 (0%)	0 (0%)	50 (100.0%)	Mar-15, Apr-20	50	B.2.1	12
UK3734	0 (0%)	0 (0%)	0 (0%)	49 (100.0%)	Mar-20, Apr-27	49	B.1	5
UK9	0 (0%)	0 (0%)	0 (0%)	49 (100.0%)	Feb-24, Apr-19	49	B.1	13
UK126	0 (0%)	0 (0%)	0 (0%)	47 (100.0%)	Mar-12, Apr-19	47	B.2.1, B.2	13
UK159	0 (0%)	0 (0%)	0 (0%)	46 (100.0%)	Mar-21, Apr-29	46	B.1	3
UK6521	0 (0%)	0 (0%)	0 (0%)	44 (100.0%)	Mar-19, Apr-14	44	B.1	18
UK142	0 (0%)	0 (0%)	19 (43.18%)	25 (56.82%)	Mar-26, May-01	44	B.1	1
UK41	0 (0%)	1 (2.27%)	43 (97.73%)	0 (0%)	Mar-12, Apr-27	44	A.2	5
UK92	0 (0%)	0 (0%)	43 (100.0%)	0 (0%)	Mar-22, May-01	43	B.1, B.1.19	1
UK1373	0 (0%)	0 (0%)	0 (0%)	41 (100.0%)	Mar-28, Apr-16	41	B.1	16
UK51	1 (2.44%)	1 (2.44%)	39 (95.12%)	0 (0%)	Mar-17, May-01	41	B	1
UK20	2 (5.0%)	2 (5.0%)	35 (87.5%)	1 (2.5%)	Mar-13, Apr-10	40	B.2	22
UK137	0 (0%)	1 (2.56%)	0 (0%)	38 (97.44%)	Mar-25, Apr-26	39	B.1	6
UK14	0 (0%)	2 (5.13%)	2 (5.13%)	35 (89.74%)	Mar-03, Apr-24	39	B	8
UK28	0 (0%)	0 (0%)	1 (2.56%)	38 (97.44%)	Mar-18, Apr-25	39	B.1	7
UK103	0 (0%)	0 (0%)	0 (0%)	38 (100.0%)	Mar-15, Apr-20	38	B.1	12
UK3701	0 (0%)	0 (0%)	0 (0%)	37 (100.0%)	Apr-07, Apr-27	37	B.1	5
UK4931	0 (0%)	0 (0%)	0 (0%)	36 (100.0%)	Mar-23, Apr-26	36	B.2.1	6
UK2	0 (0%)	0 (0%)	0 (0%)	36 (100.0%)	Mar-01, 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 (100.0%)	Mar-20, Apr-17	36	B.1.13	15
UK15	0 (0%)	33 (100.0%)	0 (0%)	0 (0%)	Mar-23, Apr-13	33	B.1	19
UK52	0 (0%)	5 (15.15%)	0 (0%)	28 (84.85%)	Mar-11, Apr-14	33	B	18
UK836	0 (0%)	0 (0%)	0 (0%)	33 (100.0%)	Mar-11, Apr-21	33	B.1	11
UK3737	0 (0%)	0 (0%)	0 (0%)	32 (100.0%)	Mar-29, Apr-28	32	B.1	4
UK3738	0 (0%)	0 (0%)	0 (0%)	32 (100.0%)	Mar-31, Apr-15	32	B.1	17
UK111	0 (0%)	0 (0%)	0 (0%)	29 (100.0%)	Mar-16, Apr-05	29	B.1	27
UK44	0 (0%)	0 (0%)	0 (0%)	29 (100.0%)	Mar-19, Apr-29	29	B.2	3
UK369	0 (0%)	0 (0%)	0 (0%)	28 (100.0%)	Mar-29, Apr-29	28	B.1	3
UK8	0 (0%)	1 (3.7%)	0 (0%)	26 (96.3%)	Mar-05, Apr-07	27	B.2.1	25
UK350	0 (0%)	0 (0%)	0 (0%)	26 (100.0%)	Mar-24, Apr-26	26	B.1	6
UK112	0 (0%)	1 (3.85%)	0 (0%)	25 (96.15%)	Mar-12, Apr-17	26	B	15
UK162	0 (0%)	0 (0%)	0 (0%)	26 (100.0%)	Feb-25, Apr-01	26	B.2.1	31
UK96	0 (0%)	0 (0%)	0 (0%)	25 (100.0%)	Mar-19, Apr-27	25	B.1	5
UK53	0 (0%)	0 (0%)	0 (0%)	24 (100.0%)	Mar-10, Apr-11	24	B.2.1	21
UK63	0 (0%)	9 (39.13%)	14 (60.87%)	0 (0%)	Mar-18, Apr-18	23	B.1	14
UK3702	0 (0%)	0 (0%)	0 (0%)	23 (100.0%)	Apr-10, Apr-23	23	B.1	9
UK1970	0 (0%)	0 (0%)	23 (100.0%)	0 (0%)	Apr-08, Apr-30	23	B.1.5	2
UK123	0 (0%)	5 (21.74%)	0 (0%)	18 (78.26%)	Mar-01, Apr-19	23	B.1	13
UK35	0 (0%)	8 (34.78%)	13 (56.52%)	2 (8.7%)	Mar-19, May-01	23	B.1, B.1.5	1
UK173	0 (0%)	0 (0%)	0 (0%)	23 (100.0%)	Mar-16, Apr-19	23	B.1	13
UK34	0 (0%)	0 (0%)	0 (0%)	22 (100.0%)	Mar-14, Apr-02	22	B.2.1	30
UK50	0 (0%)	1 (4.55%)	0 (0%)	21 (95.45%)	Mar-13, Apr-05	22	B.2.1	27
UK3193	0 (0%)	0 (0%)	0 (0%)	22 (100.0%)	Mar-20, 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, (100.0%) Apr-26	22	B.1	6
UK66	0 (0%)	0 (0%)	15	6	Mar-04, (71.43%)(28.57%) Apr-02	21	B	30
UK140	0 (0%)	0 (0%)	0 (0%)	21	Mar-25, (100.0%) Apr-19	21	B.1	13
UK129	0 (0%)	0 (0%)	0 (0%)	21	Mar-16, (100.0%) Apr-21	21	B.1	11
UK95	0 (0%)	0 (0%)	6	15	Feb-27, (28.57%)(71.43%) Mar-18	21	B	45
UK72	0 (0%)	0 (0%)	0 (0%)	21	Mar-21, (100.0%) Apr-23	21	B.1	9
UK22	0 (0%)	0 (0%)	0 (0%)	20	Mar-13, (100.0%) Apr-27	20	B.1	5
UK60	0 (0%)	0 (0%)	20	0 (0%)	Mar-18, (100.0%) Apr-27	20	B.1	5
UK165	0 (0%)	0 (0%)	0 (0%)	20	Feb-27, (100.0%) Mar-08	20	B.1.7	55
UK2900	0 (0%)	1	18	0 (0%)	Mar-22, (5.26%)(94.74%) Apr-25	19	B.1	7
UK3906	0 (0%)	0 (0%)	1	18	Mar-23, (5.26%)(94.74%) Apr-29	19	B.1	3
UK6522	0 (0%)	0 (0%)	0 (0%)	19	Mar-30, (100.0%) Apr-13	19	B.1	19
UK93	0 (0%)	0 (0%)	19	0 (0%)	Mar-21, (100.0%) Apr-22	19	B.1	10
UK3854	0 (0%)	5	0 (0%)	14	Mar-01, (26.32%)(73.68%) Apr-12	19	B.1	20
UK3707	0 (0%)	0 (0%)	1	18	Mar-14, (5.26%)(94.74%) Apr-26	19	B.1	6
UK36	0 (0%)	0 (0%)	2	17	Mar-25, (10.53%)(89.47%) Apr-28	19	B.1	4
UK153	0 (0%)	0 (0%)	0 (0%)	18	Mar-21, (100.0%) Apr-16	18	B.1.5	16
UK187	0 (0%)	0 (0%)	0 (0%)	18	Feb-28, (100.0%) Apr-04	18	B.2.1, B.2	28
UK131	0 (0%)	0 (0%)	0 (0%)	18	Mar-21, (100.0%) Apr-11	18	B.1	21
UK3704	0 (0%)	0 (0%)	0 (0%)	17	Mar-13, (100.0%) Apr-22	17	B.1, B.1.10	10
UK1312	0 (0%)	0 (0%)	0 (0%)	17	Mar-20, (100.0%) Apr-30	17	B.1	2
UK114	0 (0%)	0 (0%)	0 (0%)	17	Mar-14, (100.0%) Apr-16	17	B.2.1	16
UK715	0 (0%)	0 (0%)	0 (0%)	17	Mar-19, (100.0%) Apr-18	17	B.1.5	14
UK3778	0 (0%)	0 (0%)	15	1	Mar-25, (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 (50.0%)	3 (18.75%)	4 (25.0%)	Mar-30, Apr-24	16	B.1	8
UK1292	0 (0%)	0 (0%)	0 (0%)	16 (100.0%)	Mar-23, Apr-10	16	B.1	22
UK110	0 (0%)	16 (100.0%)	0 (0%)	0 (0%)	Mar-23, Apr-07	16	B.1	25
UK12	0 (0%)	0 (0%)	16 (100.0%)	0 (0%)	Mar-06, Mar-20	16	B.1	43
UK21	0 (0%)	0 (0%)	0 (0%)	16 (100.0%)	Mar-13, Apr-14	16	B.2	18
UK1231	0 (0%)	0 (0%)	0 (0%)	15 (100.0%)	Mar-20, Apr-14	15	B.1	18
UK3831	0 (0%)	0 (0%)	1 (6.67%)	14 (93.33%)	Mar-28, Apr-15	15	B.1	17
UK3761	0 (0%)	0 (0%)	0 (0%)	15 (100.0%)	Apr-03, Apr-27	15	B.1	5
UK89	0 (0%)	0 (0%)	15 (100.0%)	0 (0%)	Mar-13, Apr-15	15	B.1	17
UK3886	0 (0%)	0 (0%)	0 (0%)	15 (100.0%)	Apr-05, Apr-09	15	B.1	23
UK976	0 (0%)	0 (0%)	0 (0%)	14 (100.0%)	Mar-24, Apr-10	14	B.1	22
UK3759	0 (0%)	0 (0%)	2 (14.29%)	12 (85.71%)	Mar-13, Apr-30	14	B.1	2
UK1458	0 (0%)	14 (100.0%)	0 (0%)	0 (0%)	Mar-23, Apr-09	14	B.1	23
UK109	0 (0%)	7 (50.0%)	2 (14.29%)	5 (35.71%)	Mar-12, Apr-13	14	B.1, B.1.7	19
UK5700	0 (0%)	0 (0%)	0 (0%)	14 (100.0%)	Mar-27, Apr-15	14	B.1	17
UK1055	0 (0%)	1 (7.69%)	0 (0%)	12 (92.31%)	Mar-30, Apr-27	13	B.1	5
UK668	0 (0%)	0 (0%)	0 (0%)	13 (100.0%)	Mar-27, Apr-23	13	B.1	9
UK3298	0 (0%)	0 (0%)	0 (0%)	13 (100.0%)	Apr-04, Apr-24	13	B.1	8
UK2062	0 (0%)	0 (0%)	13 (100.0%)	0 (0%)	Apr-18, Apr-30	13	B.1.5	2
UK5303	0 (0%)	7 (53.85%)	2 (15.38%)	4 (30.77%)	Mar-20, Apr-13	13	B.2.2	19
UK3827	0 (0%)	0 (0%)	0 (0%)	13 (100.0%)	Mar-18, Apr-11	13	B.1	21
UK4088	0 (0%)	0 (0%)	0 (0%)	13 (100.0%)	Mar-30, Apr-14	13	B.1	18
UK1065	0 (0%)	0 (0%)	1 (7.69%)	12 (92.31%)	Feb-13, Apr-22	13	B.2	10
UK184	0 (0%)	13 (100.0%)	0 (0%)	0 (0%)	Mar-28, 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 (100.0%)	Mar-29, Apr-27	12	B.1	5
UK37	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Mar-29, Apr-16	12	B.1, B.1.7	16
UK291	0 (0%)	10 (83.33%)	0 (0%)	2 (16.67%)	Mar-27, Apr-13	12	B.1, B.1.5	19
UK38	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Mar-13, Apr-02	12	B.1	30
UK196	0 (0%)	3 (25.0%)	1 (8.33%)	8 (66.67%)	Mar-26, Apr-18	12	B.1	14
UK146	0 (0%)	12 (100.0%)	0 (0%)	0 (0%)	Mar-18, Apr-09	12	B.2.2	23
UK205	0 (0%)	1 (8.33%)	2 (16.67%)	9 (75.0%)	Mar-27, Apr-25	12	B.1	7
UK3747	0 (0%)	1 (8.33%)	0 (0%)	11 (91.67%)	Apr-01, Apr-26	12	B.1	6
UK566	0 (0%)	0 (0%)	12 (100.0%)	0 (0%)	Apr-01, May-02	12	B.1	0
UK1849	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Mar-06, Mar-14	12	B	49
UK1258	0 (0%)	7 (58.33%)	0 (0%)	5 (41.67%)	Mar-28, Apr-30	12	B.1	2
UK3767	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Apr-01, Apr-20	12	B.1	12
UK77	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Mar-12, Apr-17	12	B.1	15
UK3708	0 (0%)	0 (0%)	0 (0%)	12 (100.0%)	Apr-04, Apr-23	12	B.1	9
UK2810	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Apr-12, Apr-23	11	B.1	9
UK4002	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-29, Apr-14	11	B.1	18
UK7	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-07, Apr-03	11	B.8	29
UK4172	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Feb-15, Mar-05	11	B.1	58
UK1124	0 (0%)	1 (9.09%)	0 (0%)	10 (90.91%)	Mar-27, Apr-25	11	B.1	7
UK2840	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-27, Apr-13	11	B.1, B.1.7	19
UK939	7 (63.64%)	1 (9.09%)	3 (27.27%)	0 (0%)	Mar-11, Apr-02	11	B	30
UK2899	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Apr-06, Apr-30	11	B.1	2
UK124	0 (0%)	2 (18.18%)	0 (0%)	9 (81.82%)	Mar-23, Mar-30	11	B.1	33
UK94	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-16, 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 (9.09%)	2 (18.18%)	8 (72.73%)	Mar-17, Apr-13	11	B.2	19
UK2572	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Apr-08, Apr-22	11	B.1.11	10
UK3740	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-28, Apr-17	11	B.1	15
UK899	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Mar-20, Apr-06	11	B.2.1, B.2	26
UK132	0 (0%)	0 (0%)	11 (100.0%)	0 (0%)	Mar-13, Apr-05	11	B.2	27
UK2270	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Apr-13, Apr-27	11	B.1	5
UK3774	0 (0%)	0 (0%)	0 (0%)	11 (100.0%)	Apr-20, Apr-21	11	B.1	11
UK3760	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Apr-04, Apr-27	10	B.1	5
UK2038	0 (0%)	0 (0%)	10 (100.0%)	0 (0%)	Apr-13, Apr-29	10	B.1.5	3
UK43	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-13, Apr-13	10	B.2.1, B.2	19
UK3710	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-22, Apr-11	10	B.1	21
UK690	1 (10.0%)	0 (0%)	0 (0%)	9 (90.0%)	Mar-26, Apr-07	10	B.1	25
UK720	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Feb-28, Mar-08	10	B.2.1, B.2	55
UK1184	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-15, Apr-08	10	B.1	24
UK1586	0 (0%)	0 (0%)	10 (100.0%)	0 (0%)	Mar-19, Apr-08	10	A.3	24
UK42	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Feb-26, Mar-15	10	B.1	48
UK57	0 (0%)	1 (10.0%)	0 (0%)	9 (90.0%)	Mar-16, Mar-30	10	B.8	33
UK3731	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Apr-07, Apr-24	10	B.1	8
UK3411	0 (0%)	0 (0%)	9 (90.0%)	1 (10.0%)	Apr-04, Apr-28	10	B.1	4
UK4735	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-31, Apr-14	10	B.1	18
UK730	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-26, Apr-20	10	B.1	12
UK3754	0 (0%)	1 (10.0%)	0 (0%)	9 (90.0%)	Apr-07, Apr-22	10	B.1	10
UK2571	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Apr-01, Apr-21	10	B.1.11	11
UK2060	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Apr-08, Apr-23	10	B.1.5	9

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UK2025	0 (0%)	0 (0%)	10 (100.0%)	0 (0%)	Apr-05, Apr-22	10	B.1.5	10
UK3775	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Mar-28, Apr-04	10	B.1	28
UK1433	0 (0%)	0 (0%)	0 (0%)	10 (100.0%)	Feb-15, Mar-06	10	B.4	57
UK3471	0 (0%)	9 (100.0%)	0 (0%)	0 (0%)	Mar-29, Apr-09	9	B.1	23
UK3812	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-30, Apr-12	9	B.1	20
UK59	0 (0%)	9 (100.0%)	0 (0%)	0 (0%)	Mar-14, Apr-08	9	B.2.1	24
UK179	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-18, Apr-27	9	B.1.10	5
UK25	0 (0%)	1 (11.11%)	1 (11.11%)	7 (77.78%)	Mar-10, Apr-08	9	B.2.2, B.2	24
UK3755	0 (0%)	2 (22.22%)	0 (0%)	7 (77.78%)	Mar-24, Apr-24	9	B.1	8
UK4930	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-29, Apr-08	9	B.2.1	24
UK104	0 (0%)	5 (55.56%)	0 (0%)	4 (44.44%)	Mar-21, Apr-13	9	B.1	19
UK5381	0 (0%)	0 (0%)	9 (100.0%)	0 (0%)	Mar-24, Apr-05	9	B.2	27
UK3197	0 (0%)	9 (100.0%)	0 (0%)	0 (0%)	Mar-30, Apr-12	9	B.1	20
UK69	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-15, Apr-17	9	B.2.1	15
UK2240	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-23, Apr-12	9	B.1	20
UK3888	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-30, Apr-13	9	B.1	19
UK3728	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Mar-19, Apr-11	9	B.1	21
UK3765	0 (0%)	0 (0%)	0 (0%)	9 (100.0%)	Apr-10, Apr-28	9	B.1	4
UK158	0 (0%)	0 (0%)	0 (0%)	8 (100.0%)	Mar-10, Apr-22	8	B.2.1	10
UK138	0 (0%)	7 (87.5%)	1 (12.5%)	0 (0%)	Mar-20, Apr-05	8	B.2.1	27
UK1632	0 (0%)	0 (0%)	0 (0%)	8 (100.0%)	Mar-01, Mar-08	8	B.4	55
UK3860	0 (0%)	8 (100.0%)	0 (0%)	0 (0%)	Apr-05, Apr-12	8	B.1	20
UK141	0 (0%)	8 (100.0%)	0 (0%)	0 (0%)	Mar-25, Apr-13	8	B.1	19
UK351	0 (0%)	8 (100.0%)	0 (0%)	0 (0%)	Mar-24, 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

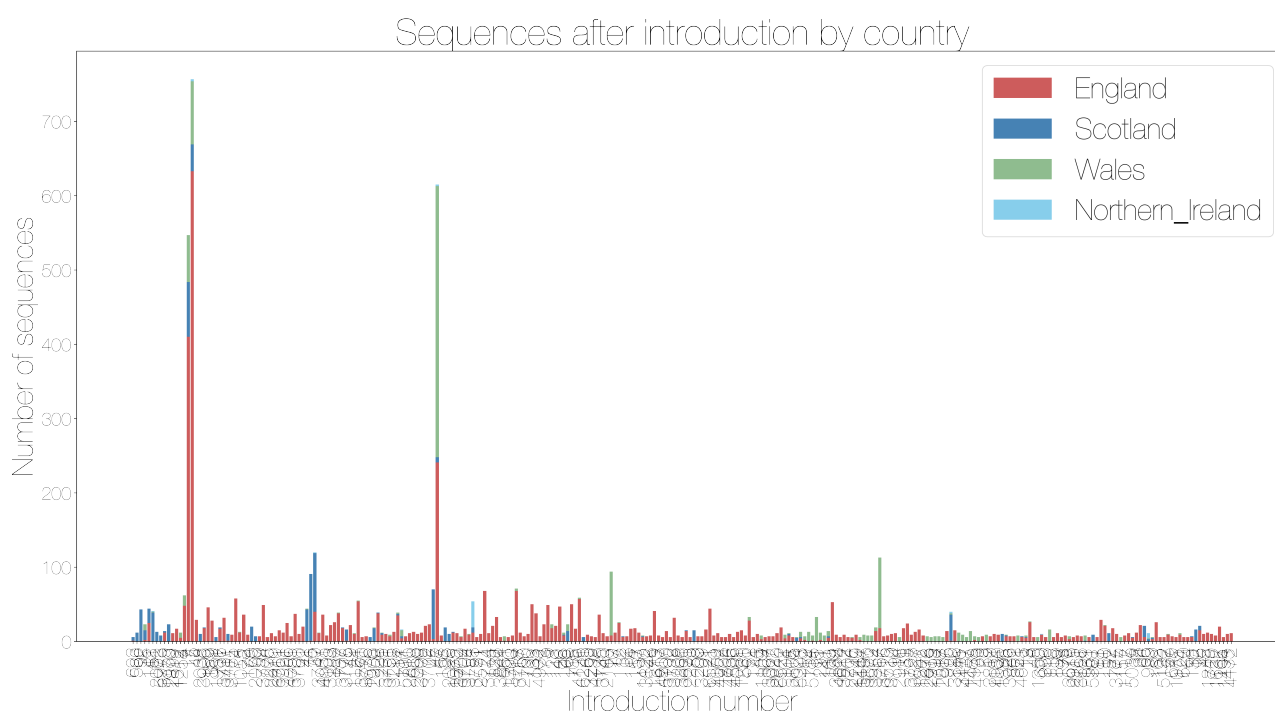
	Northern				Date	Total	Global	Time since last
Introduction	Ireland	Wales	Scotland	England	range	sequences	lineage	sample (days)
UK552	0 (0%)	0 (0%)	0 (0%)	7 (100.0%)	Mar-24, Apr-08	7	B.1	24
UK3986	0 (0%)	0 (0%)	0 (0%)	7 (100.0%)	Mar-30, Apr-08	7	B.1	24
UK32	0 (0%)	0 (0%)	1 (14.29%)	6 (85.71%)	Mar-05,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

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

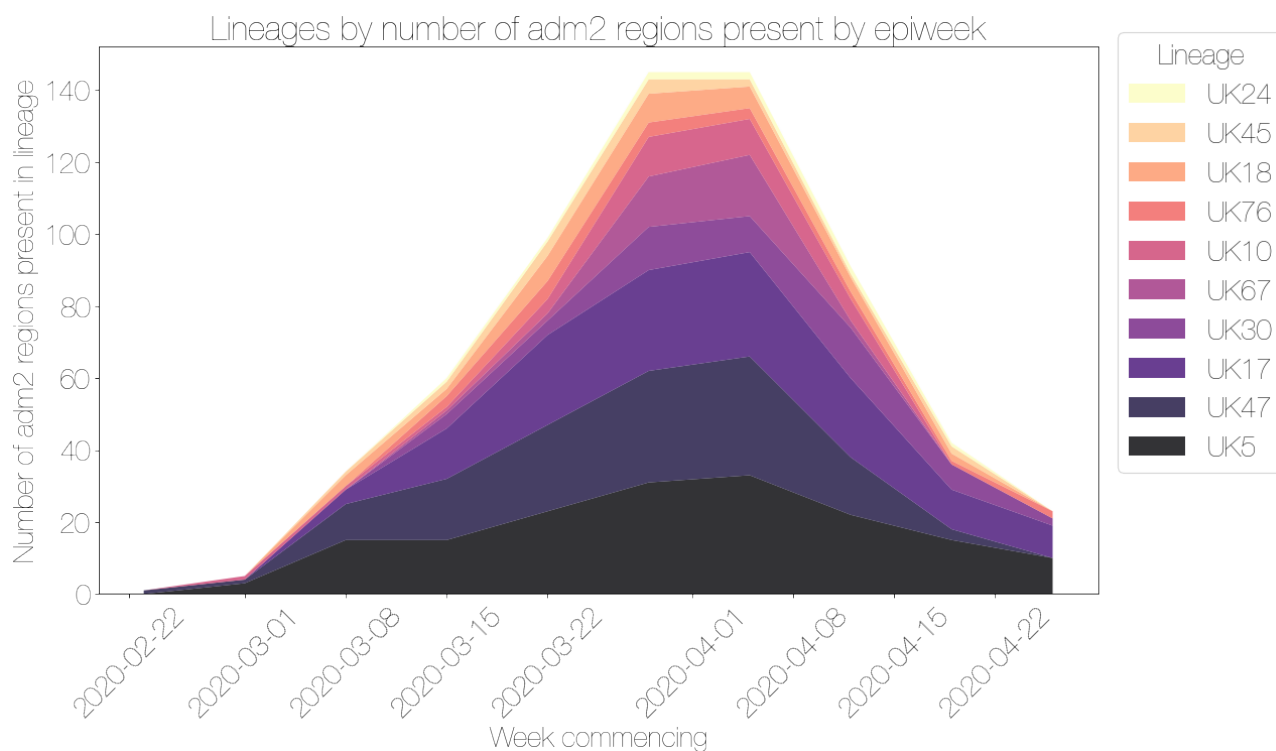
Introduction	Northern				Date range	Total sequences	Global lineage	Time since last sample (days)
	Ireland	Wales	Scotland	England				
UK2024	0 (0%)	1 (16.67%)	5 (83.33%)	0 (0%)	Mar-18, Apr-13	6	B.1.5	19
UK157	0 (0%)	6 (100.0%)	0 (0%)	0 (0%)	Mar-24, Apr-03	6	B.1.5	29
UK3192	0 (0%)	0 (0%)	0 (0%)	6 (100.0%)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

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

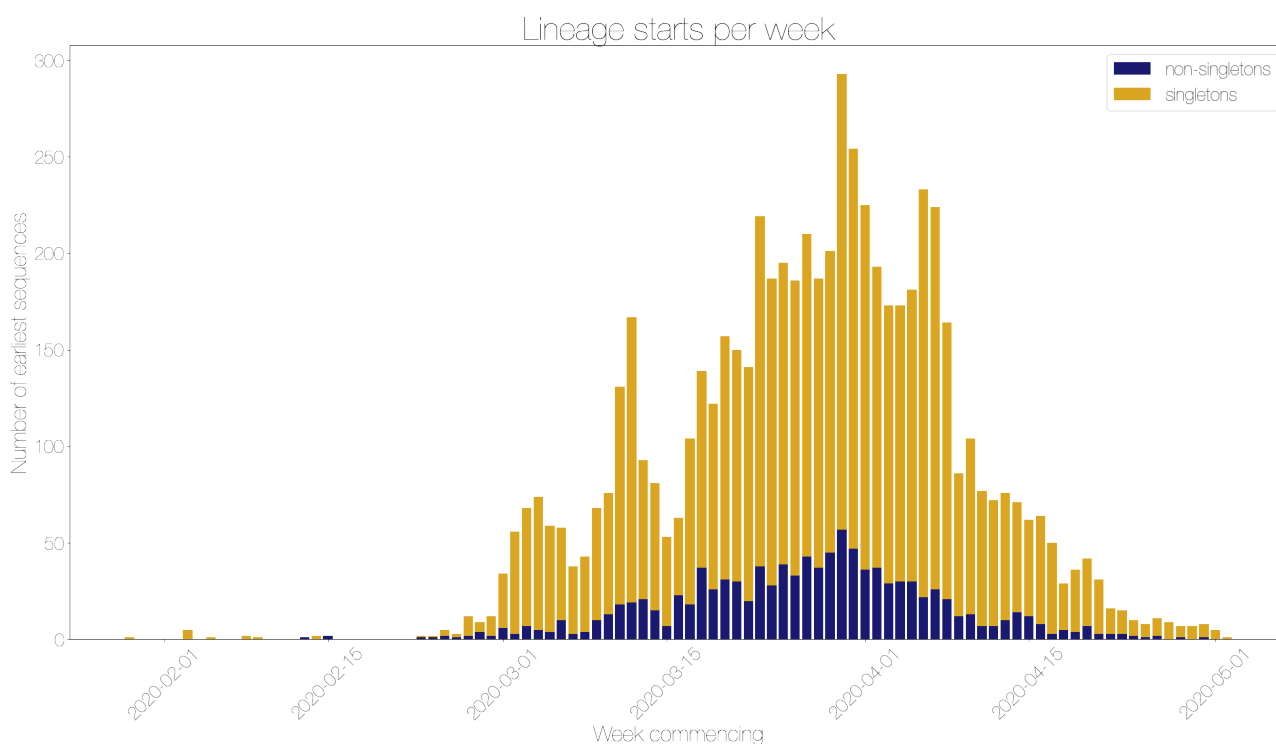
These data is represented in the stacked bar chart below. Note that the number of sequences is likely to be due more to differing sampling efforts in different regions, rather than genuine differences in numbers of cases.



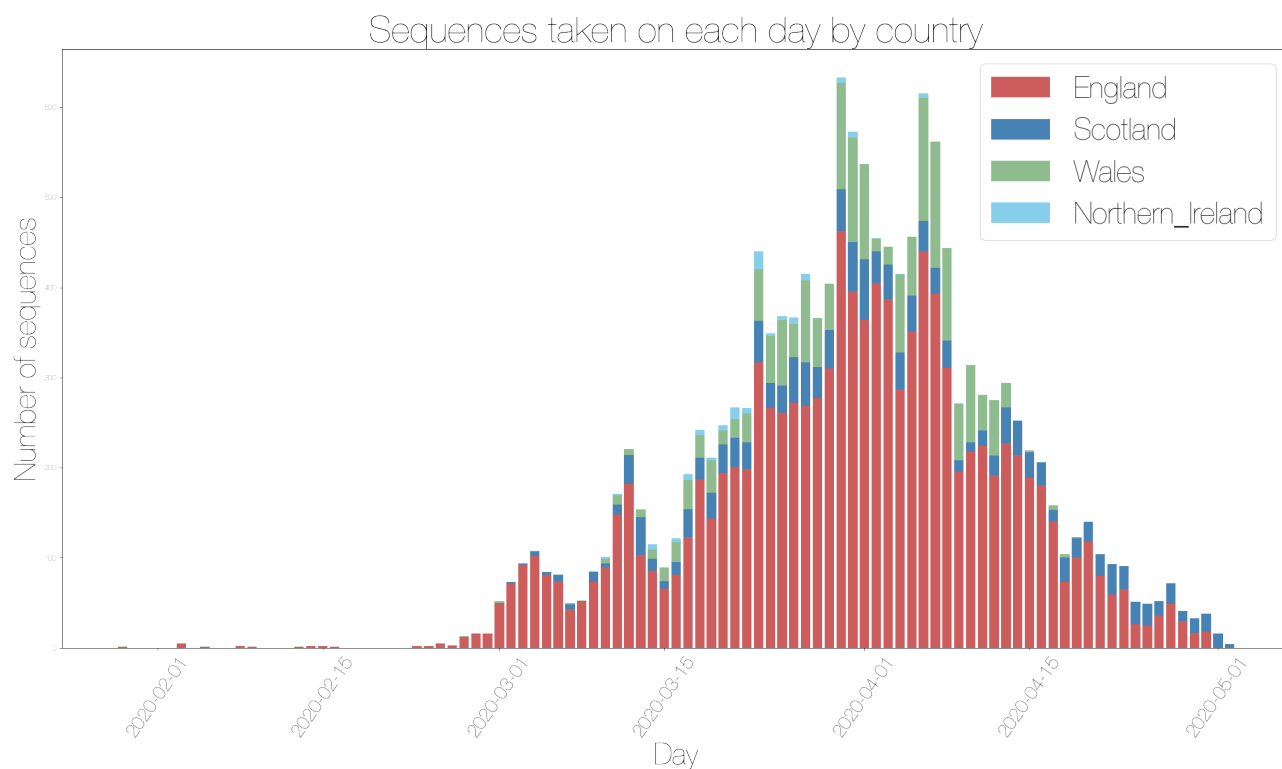
The relative growth and decline of the ten most sampled lineages in terms of number of counties they are present in is shown below.



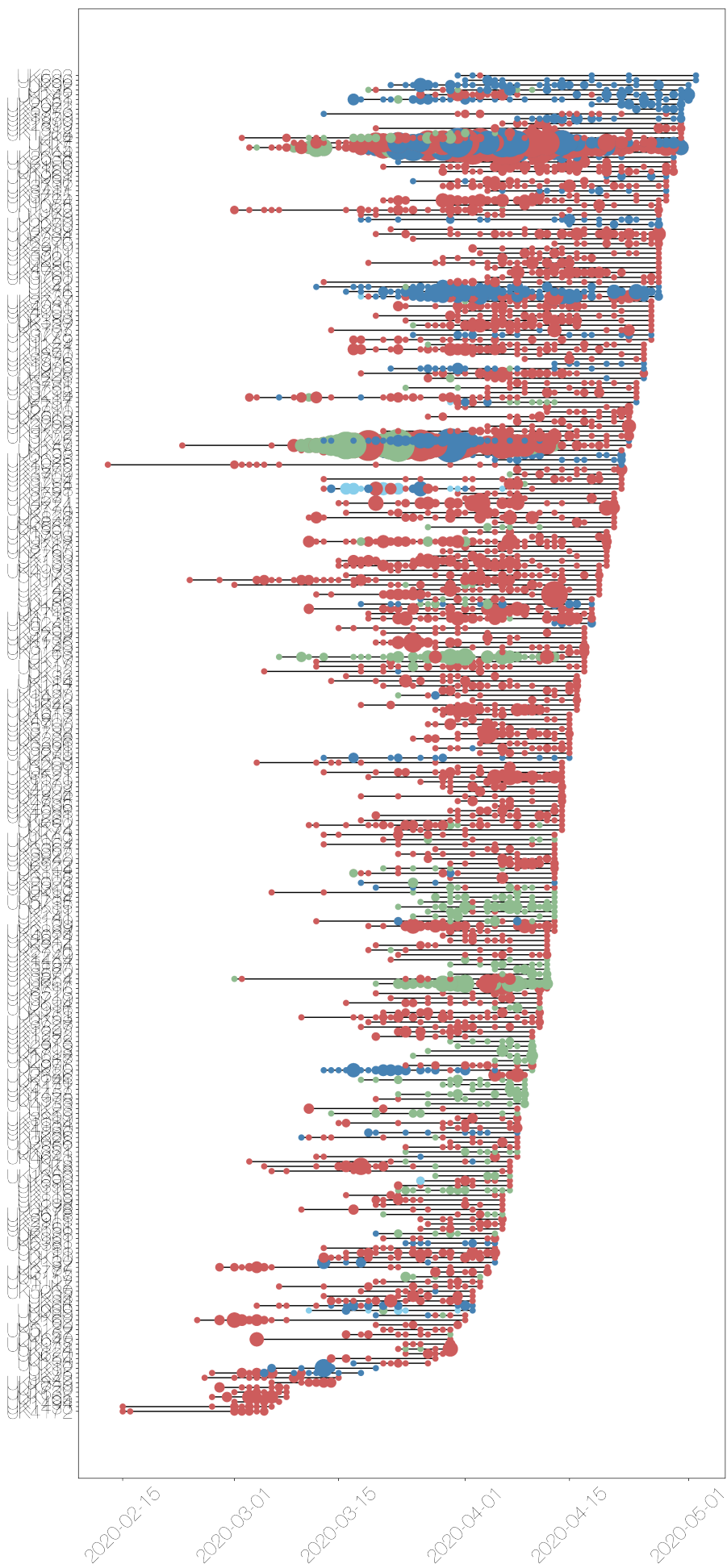
The date of first sequence in the cluster is shown below for every cluster with date information.



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.

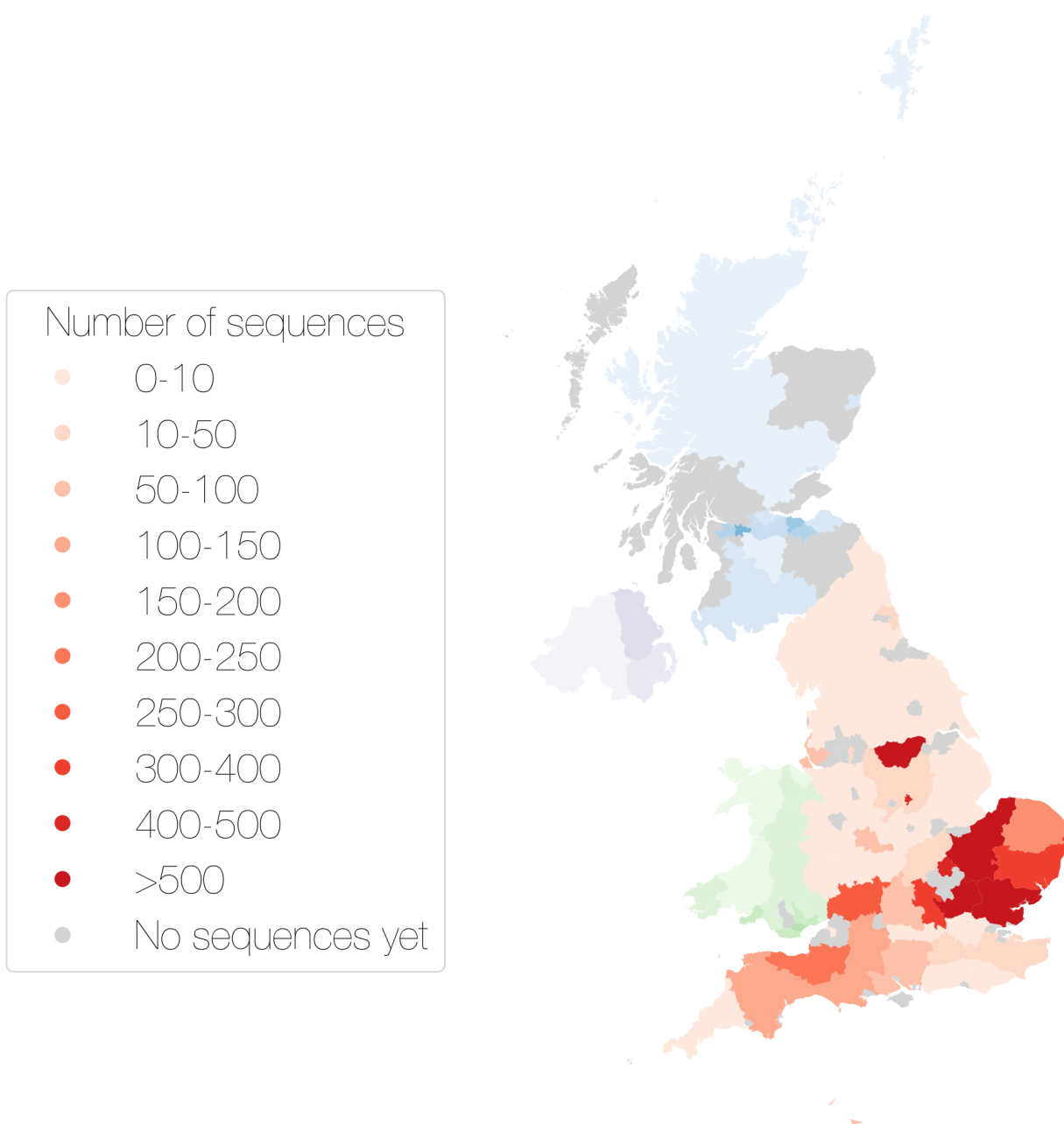


These introductions are shown on the timeline below. Each line represents the length of the cluster, from oldest to most recent sampling date. The dots are sized by the number of sequences taken on that date, and again are colour coded by country.





## 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.

