

## Twitter Thread by Dr Emma Hodcroft



**Dr Emma Hodcroft**

[@firefox66](#)

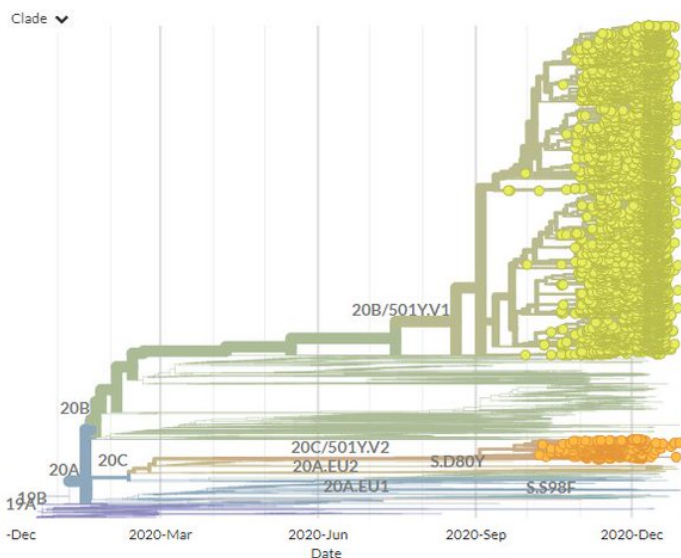


Each day brings new challenges, but here's an update to the dedicated S.N501 build, using data from 6 Jan 2021 to keep you going.

There are 42 new non-UK sequences in 501Y.V1 (B.1.1.7) & 7 new non-South-African sequences in 501Y.V2.

1/14

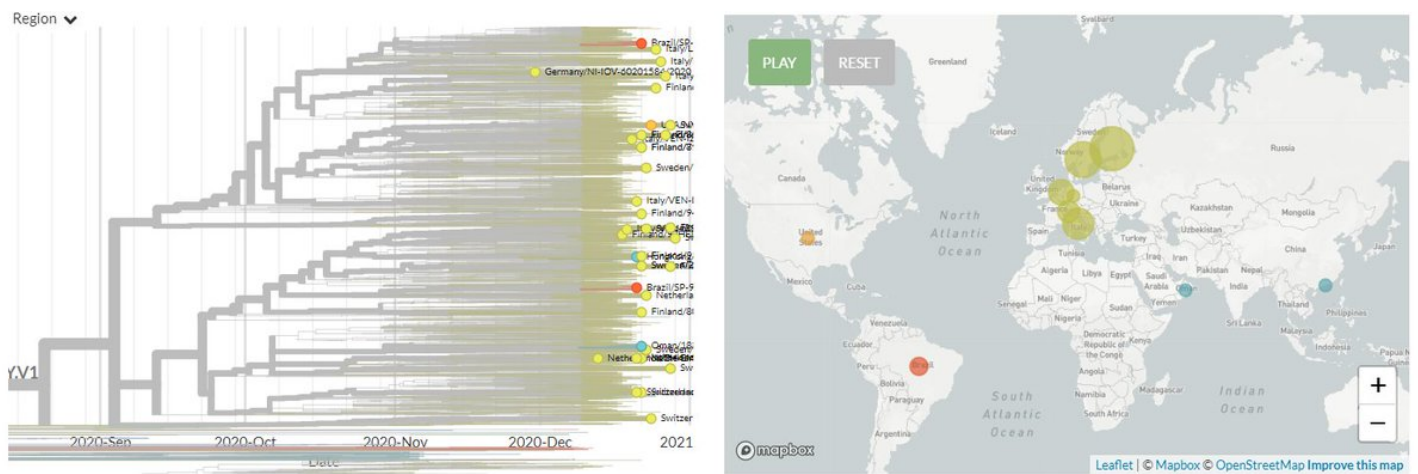
<https://t.co/kT1gFsSZn0>



There are 42 new non-UK sequences in 501Y.V1 from the Netherlands, Italy, Hong Kong, Finland, Sweden, Germany, USA, Switzerland, Brazil, and the first sequence from 501Y.V1 in Oman.

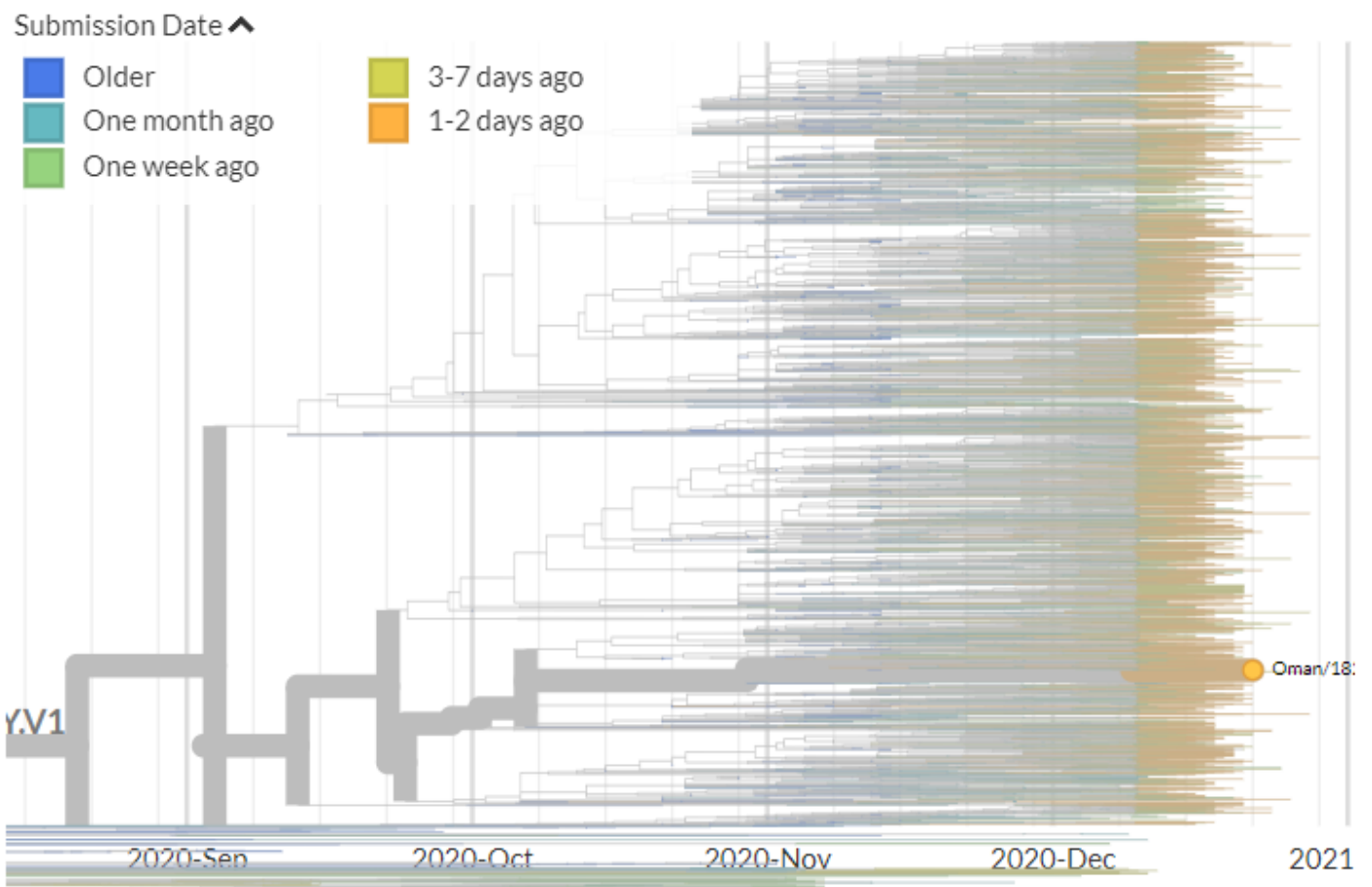
<https://t.co/XA8VR8HiEq>

2/14



Oman has their first sequence which falls into 501Y.V1:

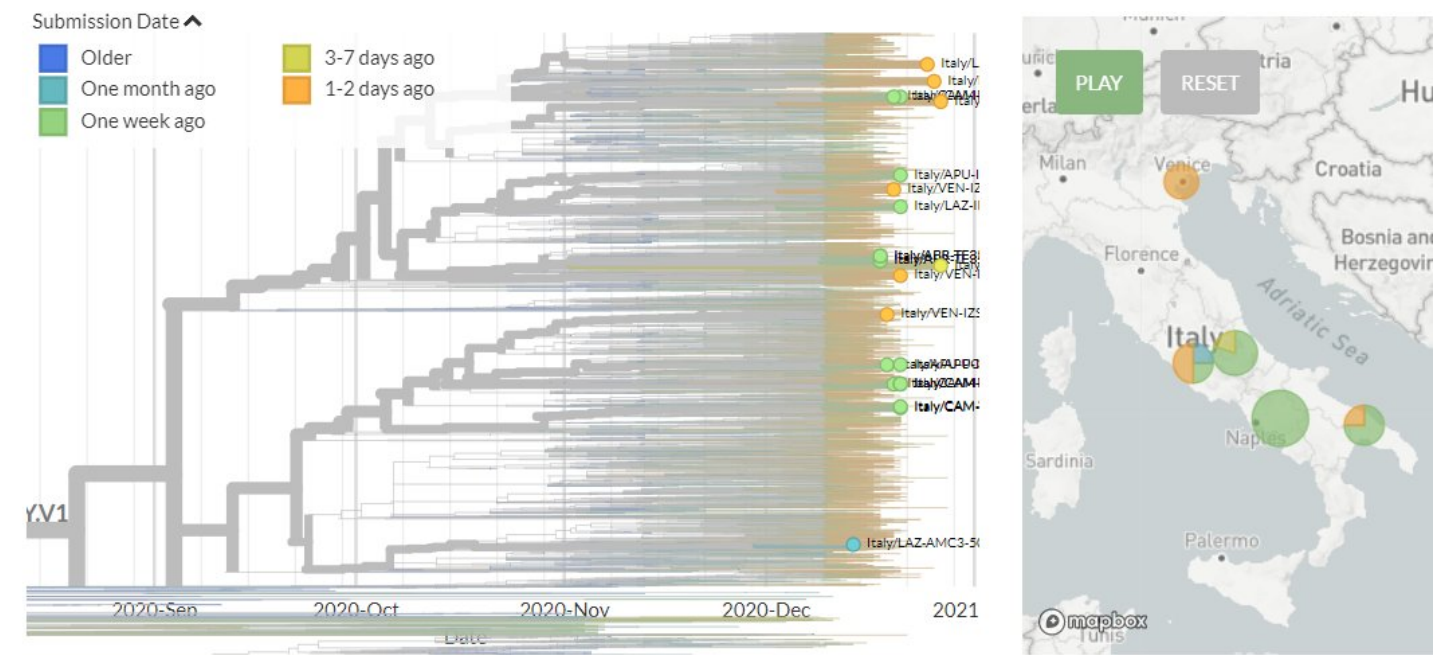
3/14



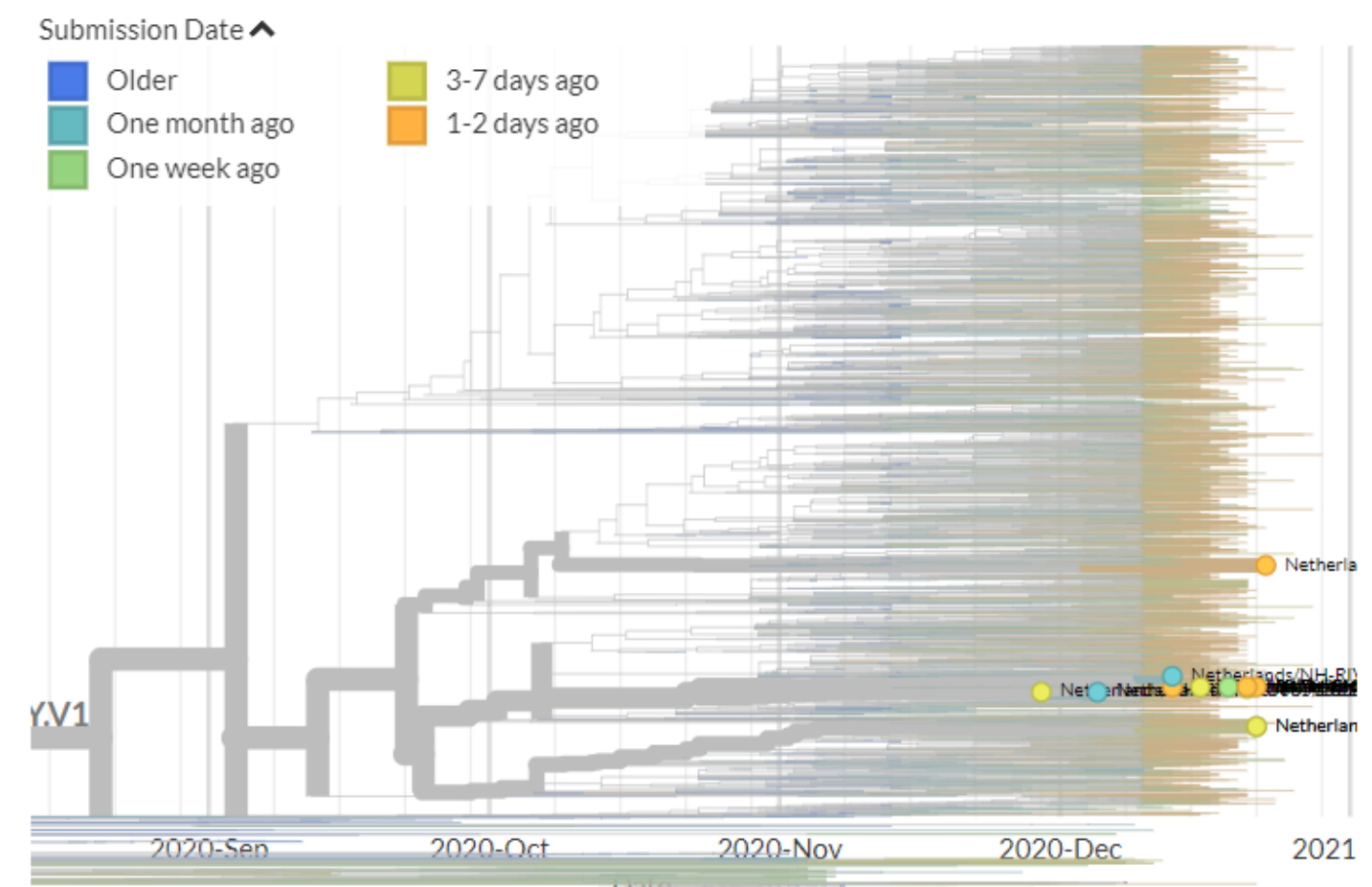
Finland has 12 new sequences (orange), which mostly represent separate introductions. Zooming in (divergence view), we can see 3 of the new sequences are identical (red), which may indicate the cases are connected.

4/14





Netherlands has 4 new sequences (orange), indicating 1 clear additional introduction. The other new sequences cluster with older sequences, possibly indicating local transmission.

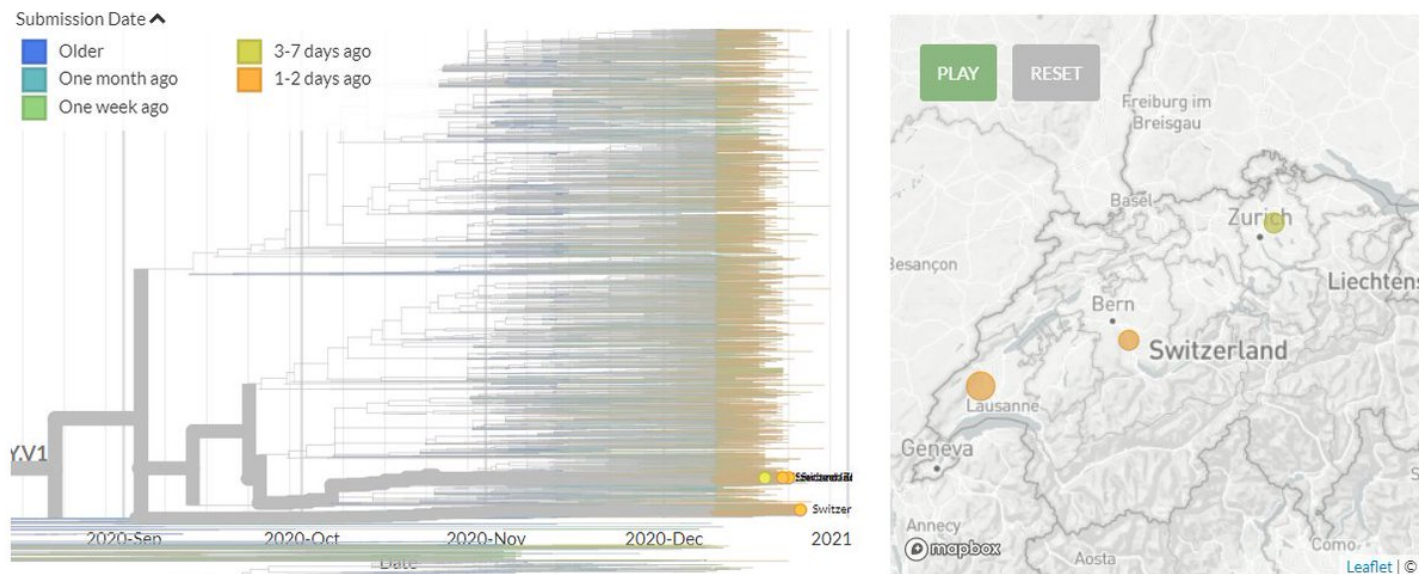




Switzerland has 3 new sequences (orange). 1 is clearly a separate introduction.

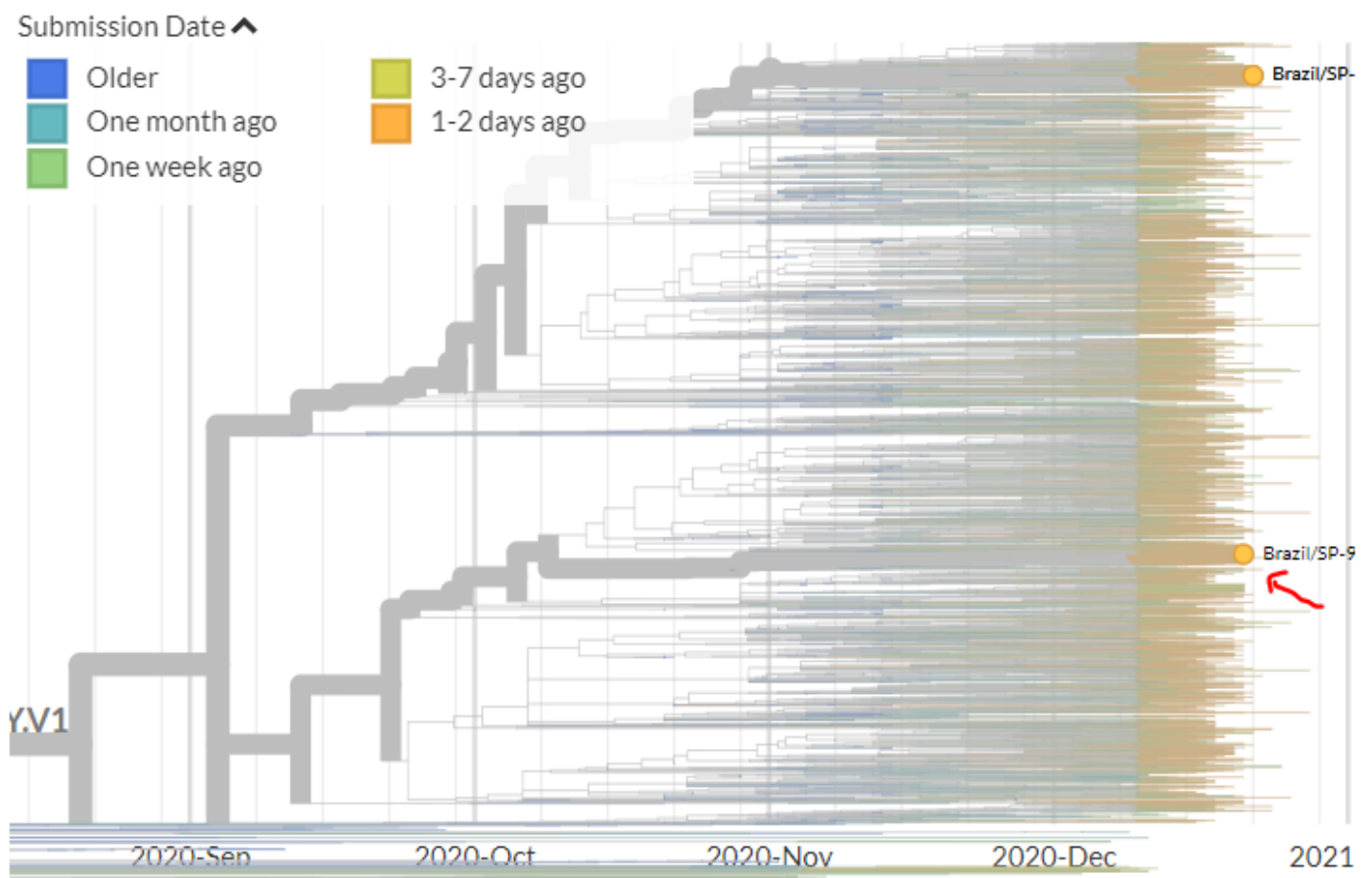
Zooming (divergence view), we can see 2 of the new sequences differ by 1 mutation, & connect to a UK sequence. More info would be needed to conclusively determine if this is local transmission.

8/14



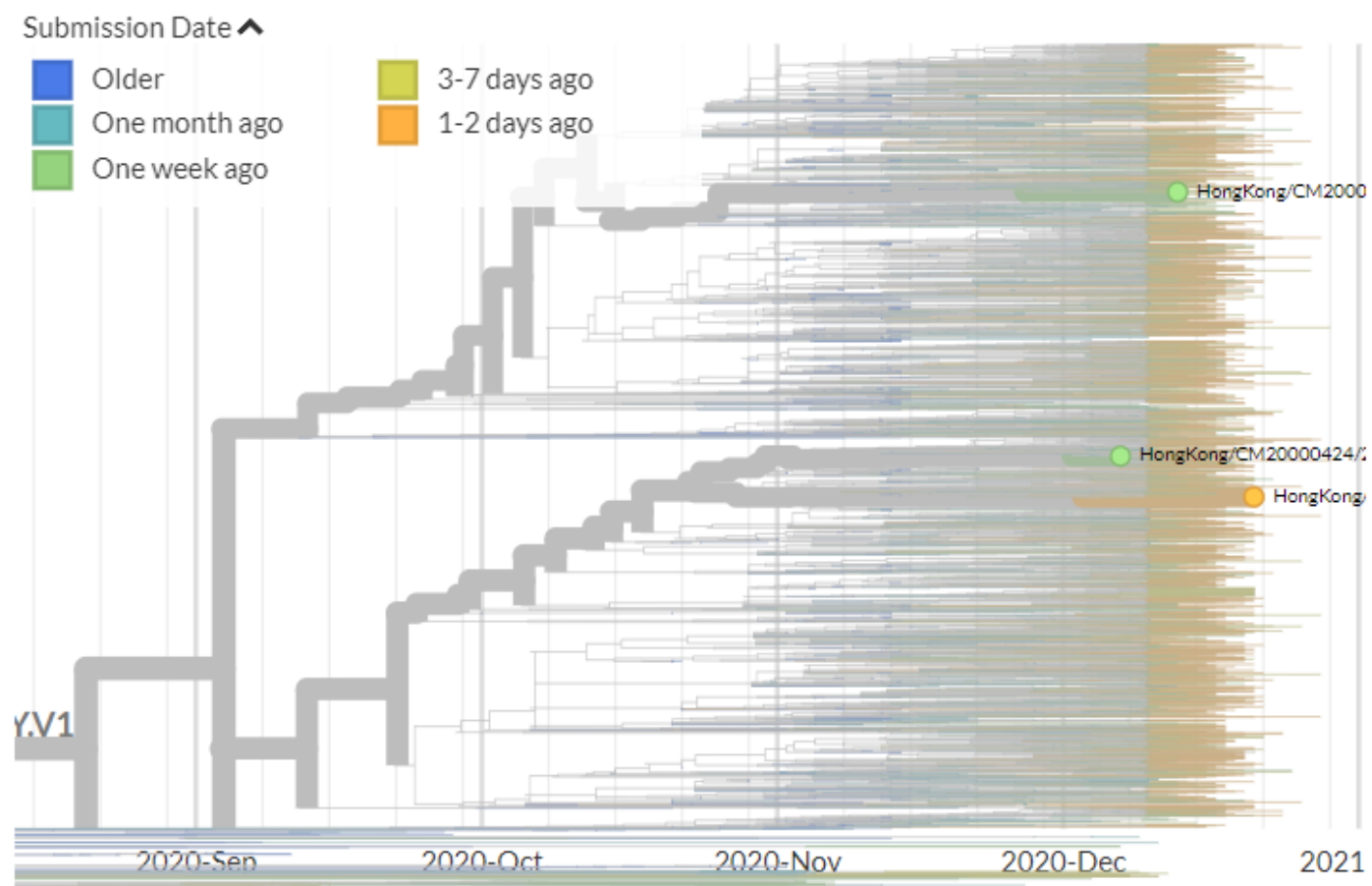
Brazil has 2 new sequences, 1 (marked) shows a new introduction. The other connects to a previous sequence. Zooming in (divergence view) we can see this more clearly - they are identical, and this may indicate local transmission.

9/14



Hong Kong, Germany and the USA (from New York), each have 1 new sequence (orange), indicating additional introductions.

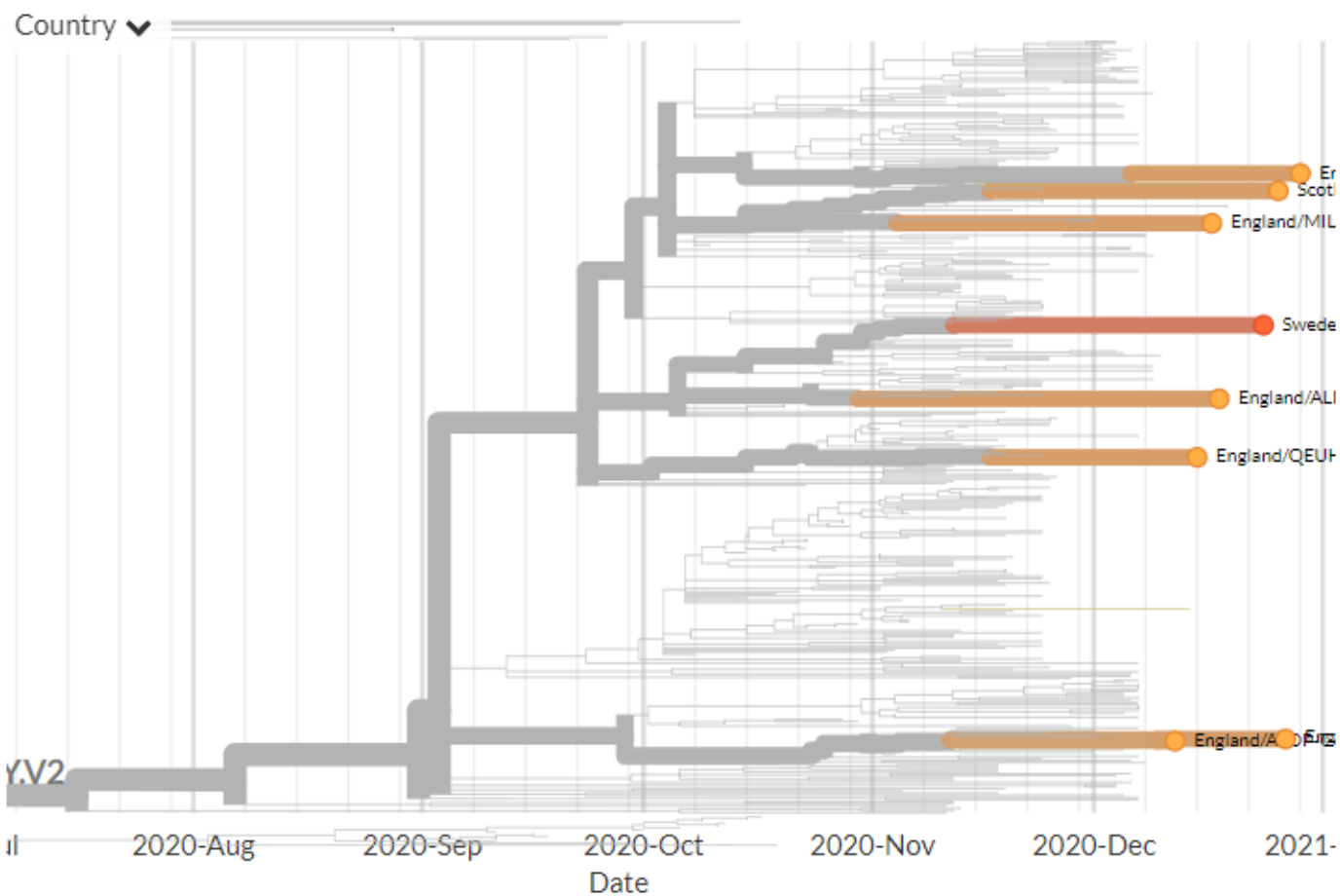
10/14



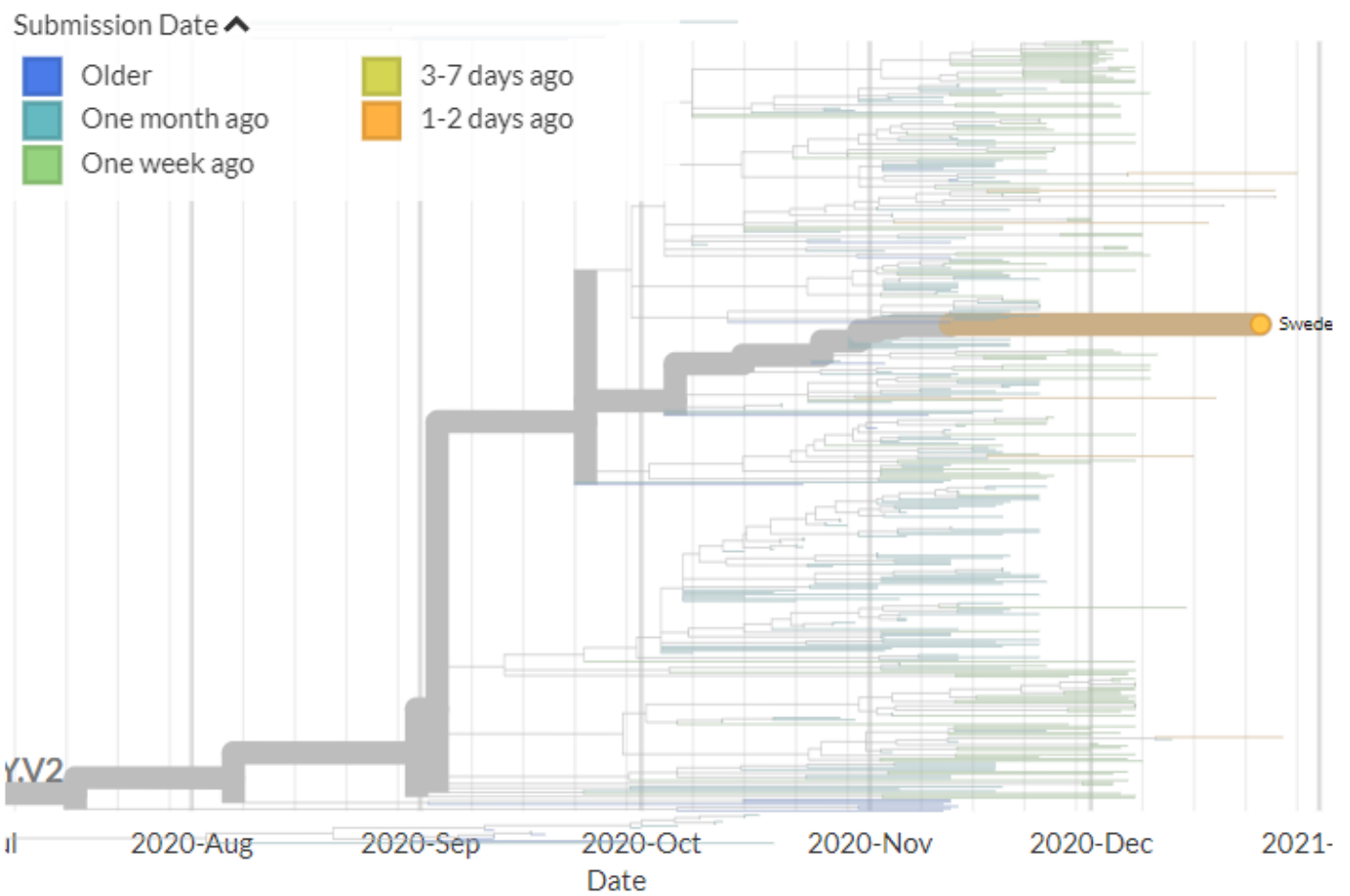
Moving on to 501Y.V2, there are 7 new non-South-African sequences in 501Y.V2, from the United Kingdom (6) and Sweden (1).

11/14

<https://t.co/fOPgetG9S8>

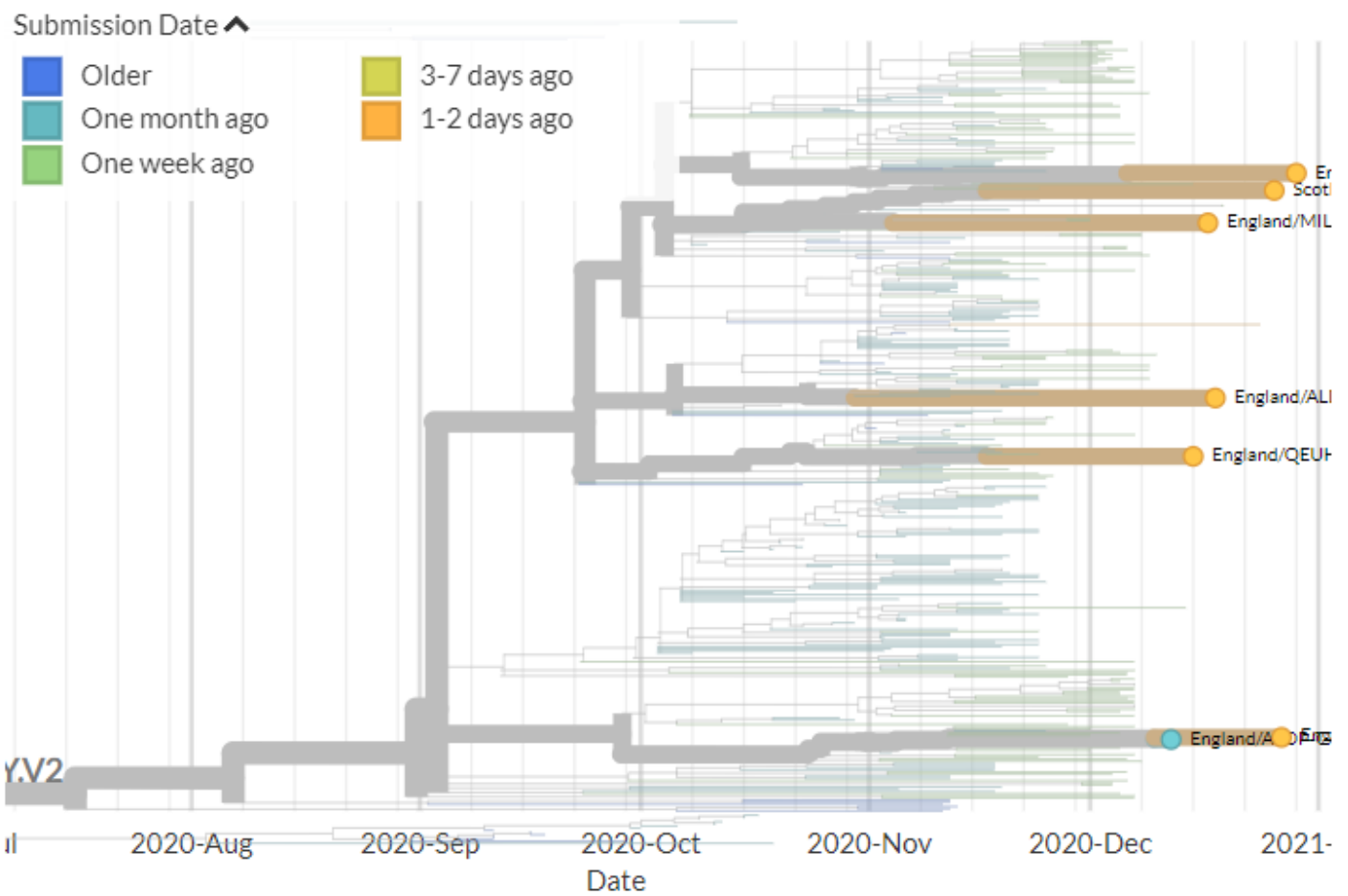


Sweden has a sequence in 501Y.V2 for the first time.



UK has 6 new sequences in 501Y.V2 (orange), including 1 from Scotland. Most indicate separate introductions, but 1 new seq links to the older 1 (blue). Zooming (divergence view), they are separated by 1 mutation. This could indicate local transmission or the same exposure.



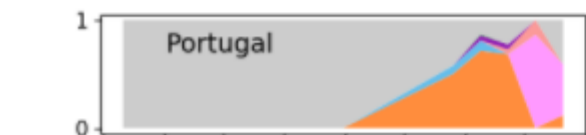
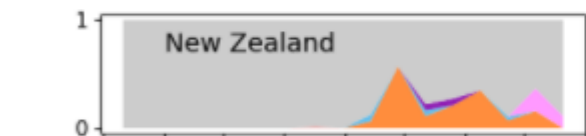
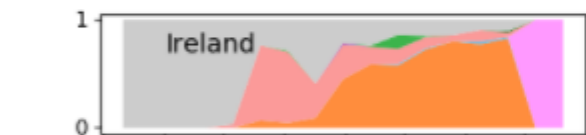
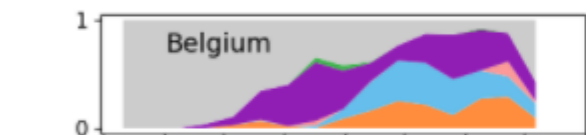
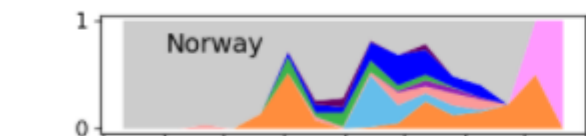
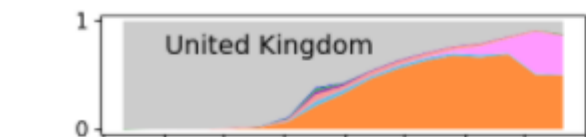
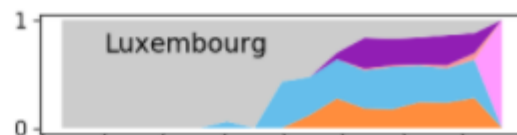
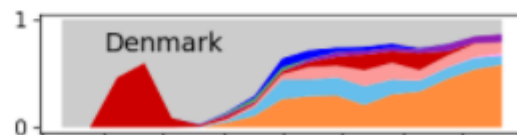
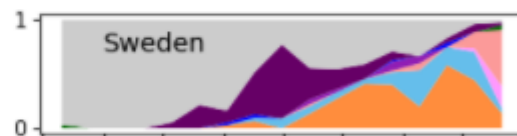
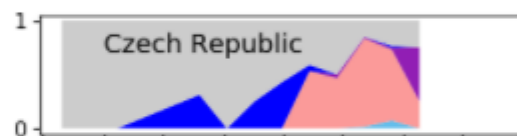
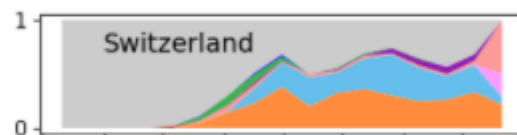
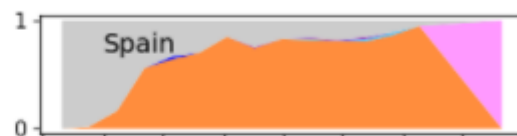
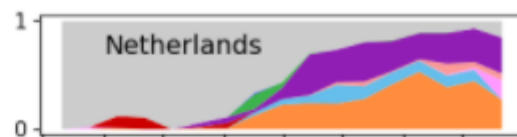
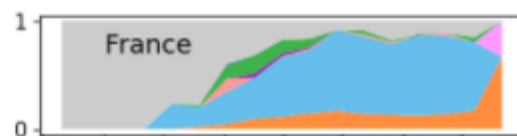
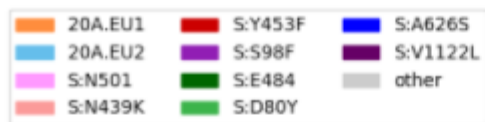


As always, the graph of variants per country is updated (remember: as people are preferentially sequencing S:N501 samples, the proportions shown are not accurate outside of UK & Denmark!)

Additionally, the 'reduced UK' S:N501 build is updated!

14/14

<https://t.co/c7wlQOLRiq>



2020-05 2020-06 2020-07 2020-08 2020-09 2020-10 2020-11 2020-12 2021-01

2020-05 2020-06 2020-07 2020-08 2020-09 2020-10 2020-11 2020-12 2021-01