

December 2019

November 2020

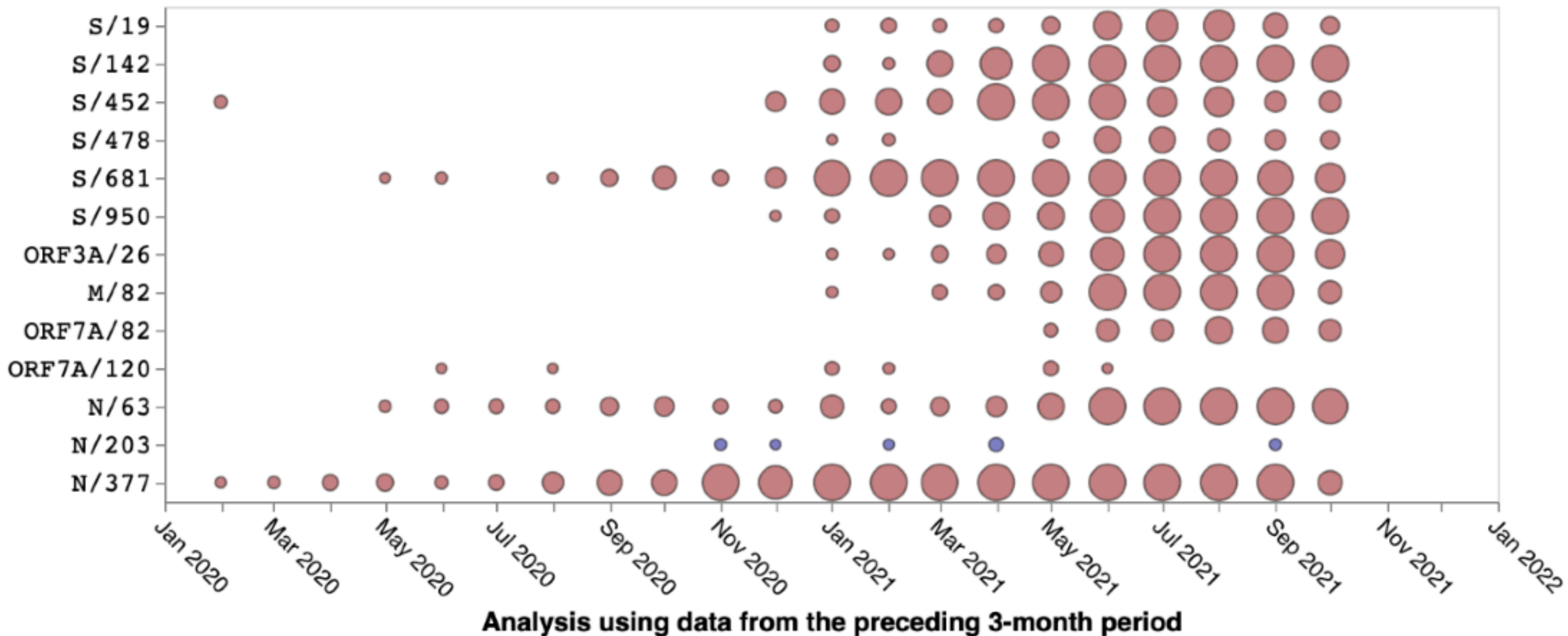
May 2021

- Selection analyses (global or clade level) seem to have the ability to pick up selective signals before they sweep up in frequencies, become V_{OI}/V_{OC}



Continued evolution, complex
selection dynamics, transition to
endemic?

$-\log_{10}(p)$



Selection at delta (B.1.617.2) sites

<https://obseivablehq.com/@sporn/sars-cov-2-selected-sites>

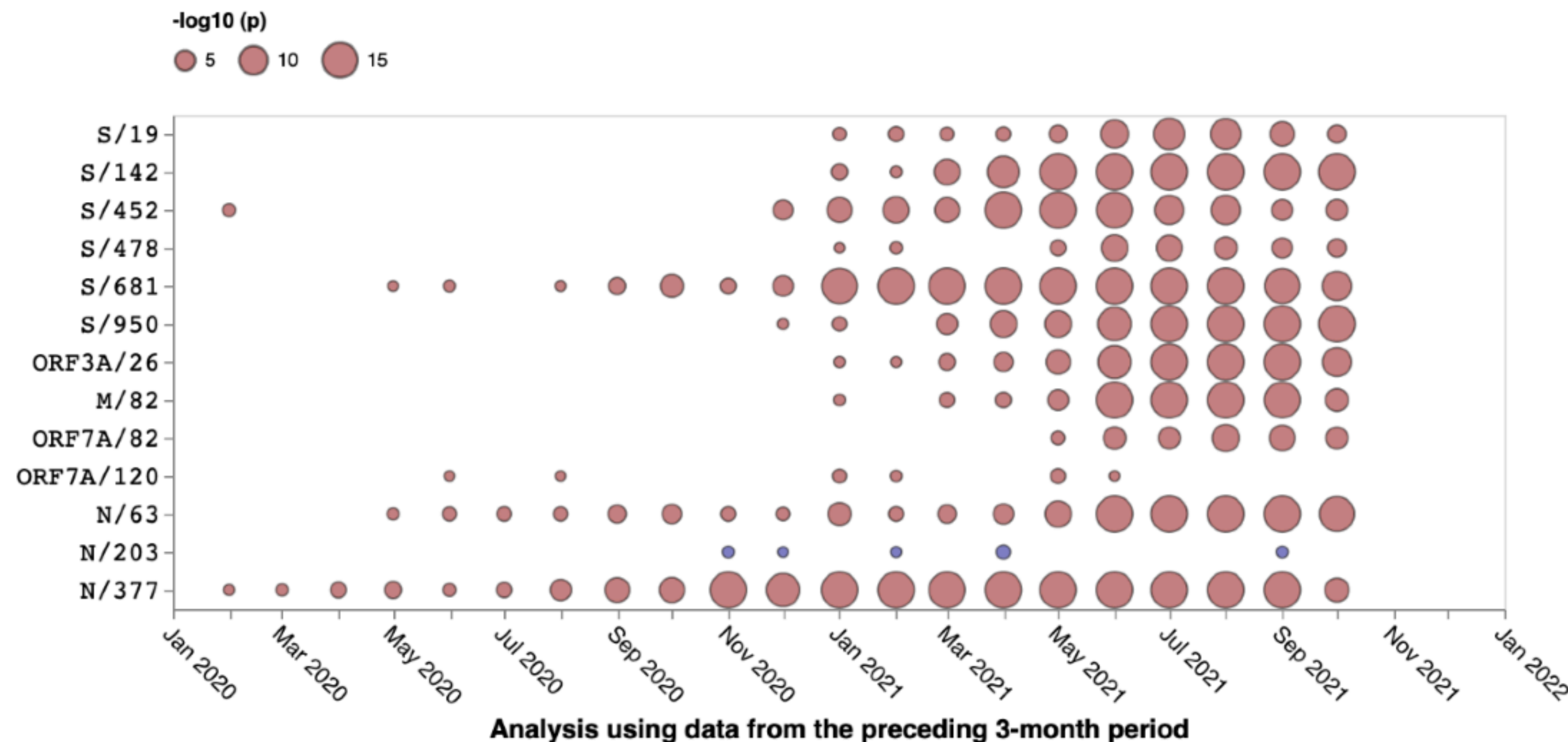
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Figure 1. Temporal evolution of selection force, defined as the number of **positively** and **negatively** selected sites normalized by kilobase of gene length and the internal tree length (sites/[substitutions across the tree x gene length]); this quantity should be directly comparable between genes and time points. Genes are sorted by maximal 'force' of positive selection over all time.

Continued evolution, complex selection dynamics, transition to endemic?

