

Modelling Zoonoses in Rodent Communities

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Introduction

This is the working manuscript for a study on disease modelling in rodent communities by the Infectious Disease Systems Ecology group at the British Natural History Museum.

David Simons' paper: Simons et al. (2023).

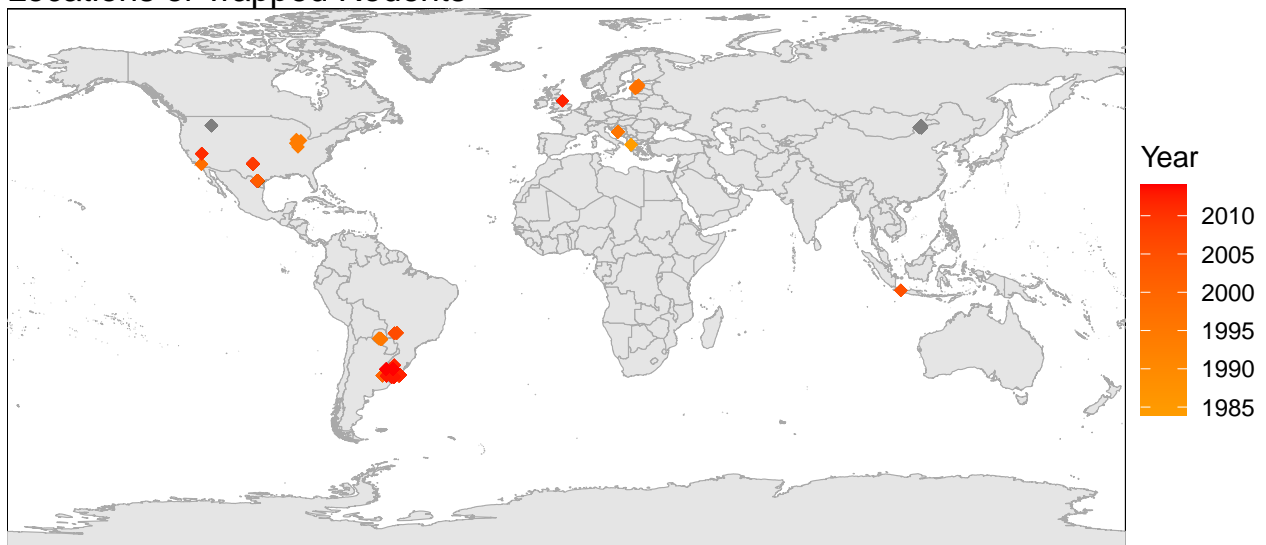
GLC: Zhang et al. (2024)

Methods

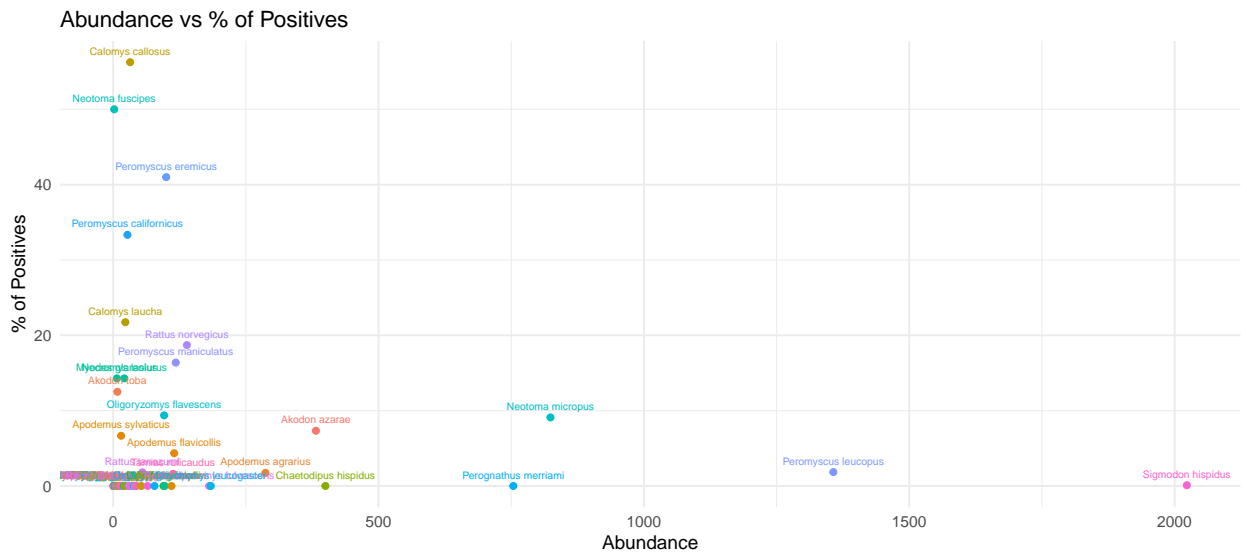
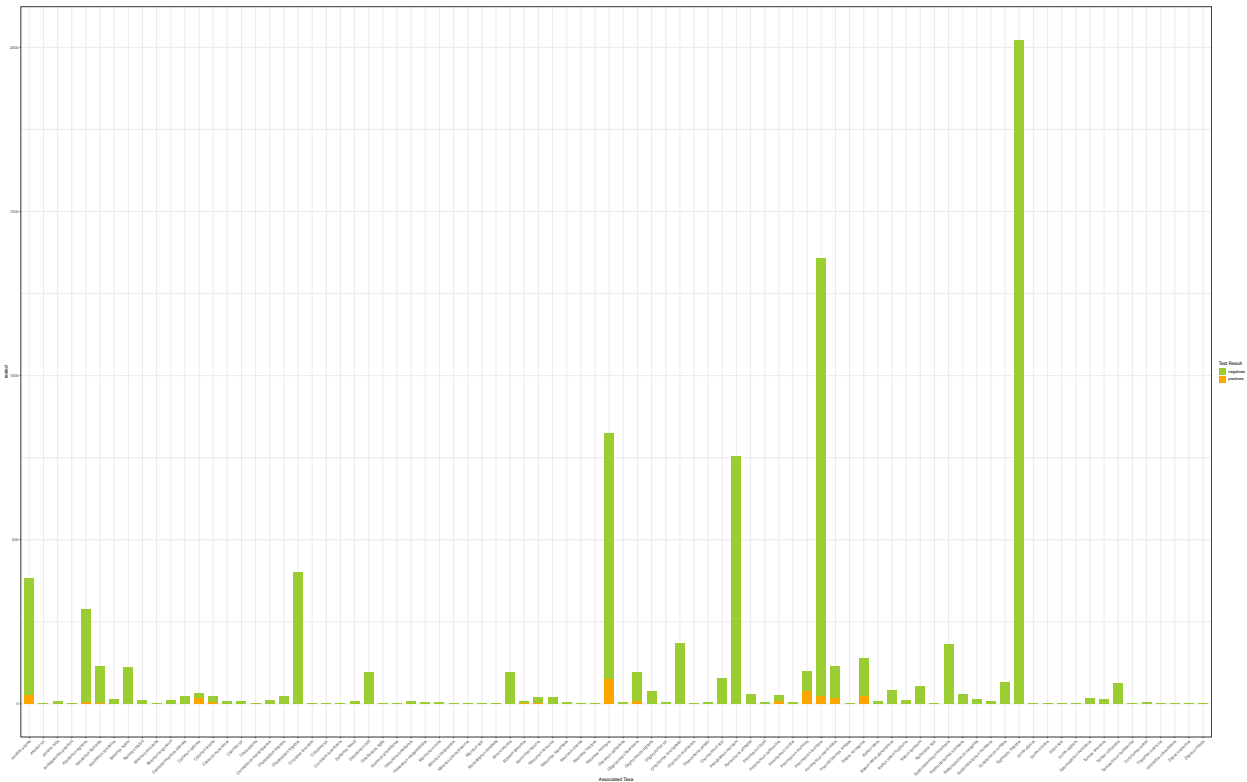
These are the methods.

Here is a world map displaying locations of our sampled rodents:

Locations of Trapped Rodents

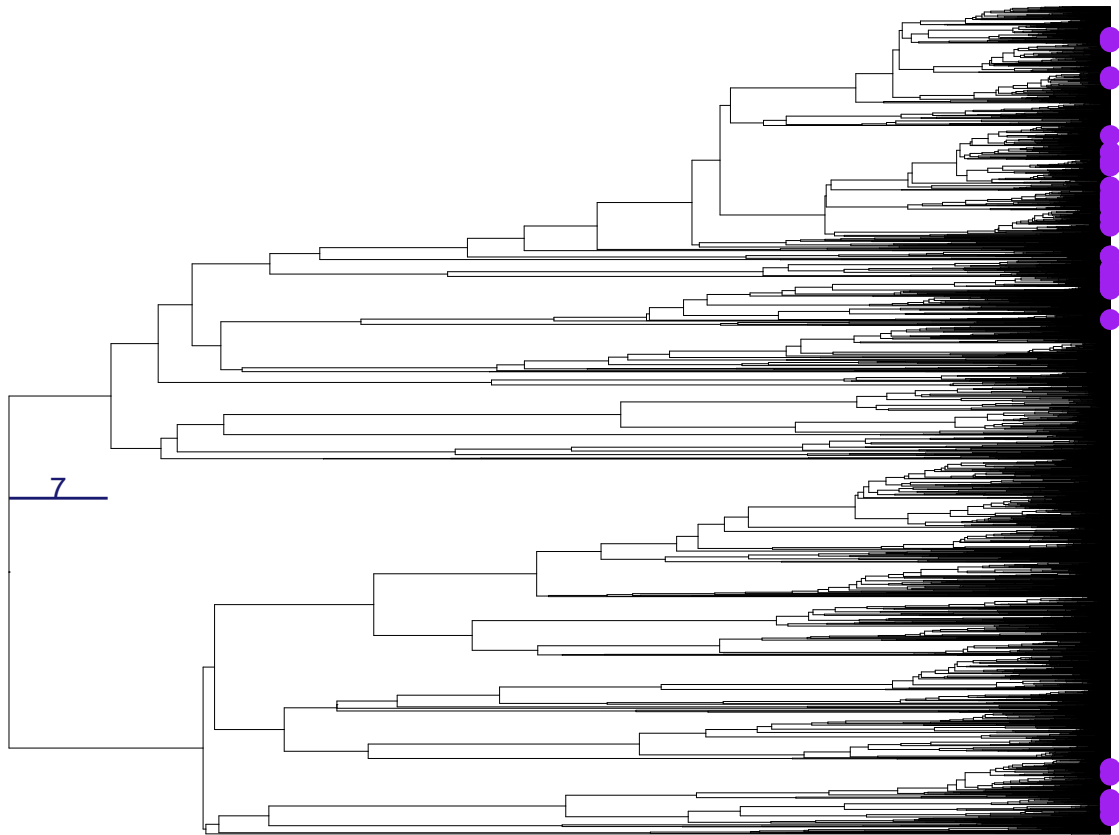


Here is the infectivity rates of our sampled rodents:



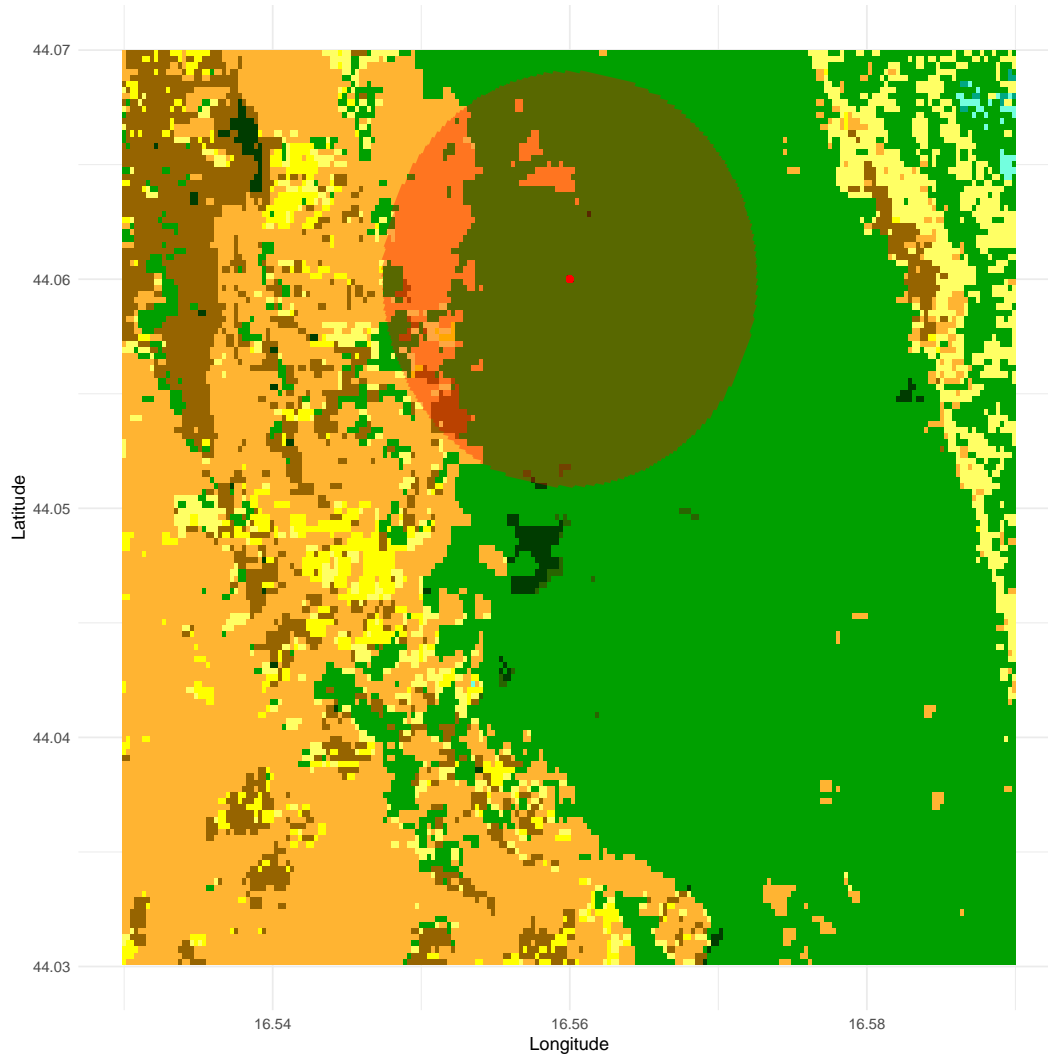
Rodent phylogeny

Here is the mammal tree with our host species highlighted



GLC database

Here is an example of a raster from the GLC database with the site coordinate plotted and a buffer of radius 1 km.



Data papers

We collected data from the following papers for use in this analysis: Burns et al. (2018), Cabrera et al. (2023), Dietrich et al. (1997), Fernandes et al. (2015), Fulhorst et al. (2002), Jameson et al. (2013), Kosasih et al. (2011), Ledina et al. (2002), LeDuc, Antoniadis, and Siamopoulos (1986), Mauldin et al. (2013), Milazzo et al. (2013), Nemirov et al. (1999), Zhang et al. (2024), Seijo et al. (2003), Sheikh Ali et al. (2014), Suárez et al. (2003), Williams et al. (1997), Williamson et al. (2021).

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