***R. tanezumi***

Supplemental Figure S2 presents boxplots demonstrating the distribution of environmental data and highlights the environmental variables identified by the model as influencing habitat suitability predictions for *R. tanezumi.* It shows how the species responds to different environmental factors.

A group of graph charts

Description automatically generated with medium confidence

**Supplemental Figure S2.** Final Environmental variables as predicted by the model to influence the habitat suitability of *R. tanezumi*.

*R. tanezumi* exhibits a preference for cooler climates and moderate rainfall, favoring narrower diurnal temperature fluctuations while demonstrating adaptability to a wide range of seasonal temperature variations. The species is capable of inhabiting dense forests, areas of low agricultural density and marginal flood vegetation plains. Also it shows a broad spectrum of tolerance towards built-up/residential areas and human-induced disturbances.