

Supplementary material

Table S1. Concurrent models to analyze how particular landscape metrics influence the abundances of *Haemagogus leucocelaenus* and *Haemagogus janthinomys* at different scales (500 m, 1.0 km, 1.5 km, 2.0 km, and 2.5 km).

Species	Predictor variables	Scales
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	null 1 = abundance ~1	-
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	null 2 = abundance ~ latitude	-
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	null 3 = abundance ~ longitude	-
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	null 2 = abundance ~ latitude + longitude	-
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Percentage of forest cover (1)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Percentage of native vegetation (2)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Percentage of agricultural land (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Number of forest fragments (4)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Forest edge density (5)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Number of native vegetation fragments (6)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	Native vegetation edge density (7)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(4) + Cohesion index among forest fragments (8)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(6) + Cohesion index among native vegetation fragments (9)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(1) + (4)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(5) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(4) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(4) + (8) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(2) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(2) + (7)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(2) + (6)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(7) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(6) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km
<i>Haemagogus leucocelaenus</i> / <i>Haemagogus janthinomys</i>	(6) + (9) + (3)	500 m, 1.0 km, 1.5 km, 2.0 km and 2.5 km