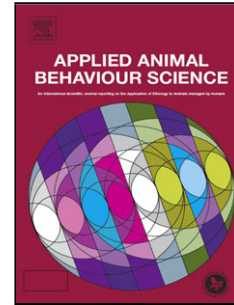


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Movement and home range of owned free-roaming male dogs in Puerto Natales, Chile

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Highlights

- Owned free-roaming male dogs in Puerto Natales, Chile have a high site fidelity to the urban environment and especially their owner's home, seldom venturing into rural areas.
- Owned free-roaming male dogs in Puerto Natales travelled an average maximum distance of 1.05 km from home and had a home range of 0.65 km² (65 ha).
- Body condition score was a predictor of home range, while age and distance to rural boundary were predictors of maximum distance travelled.

Abstract

Free-roaming dogs (FRDs) pose a significant health threat to humans, other animals and the environment. Yet, the effects of their movements and habitat use within cities and adjacent rural areas are poorly known, especially in relation to predation and the transmission of diseases that can impact human health (i.e., cystic echinococcosis and rabies). We explored the temporal and spatial distribution of owned FRDs for a remote Patagonian city surrounded by a grasslands

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