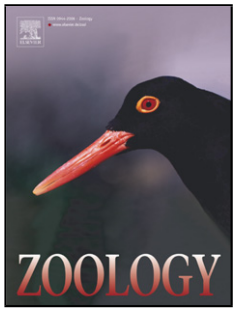

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Distinct edge effects and reproductive periods of sympatric litter-dwelling scorpions (Arachnida: Scorpiones) in a Brazilian Atlantic forest

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Highlights

- Microhabitat exploitation by scorpions influences their persistence in forest edges.
- Spatio-temporal variations in prey abundance have no effect on litter-dwelling scorpions in the Atlantic rainforest.
- Sympatric litter-dwelling scorpions have non-overlapping reproductive periods.

ABSTRACT

Edge effects have drastically affected species living in tropical forests. However, understanding how species respond to edge effects remains a challenge, owing to the many factors involved and different responses of each species thereto. Here, we analyzed how the abundance of two sympatric scorpion species (Tityus pusillus and Ananteris mauryi) and their potential prey varied as a function of microhabitat changes (litter depth,