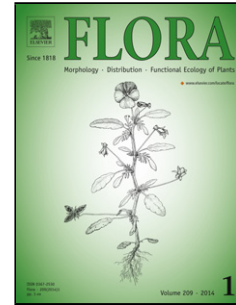


Accepted Manuscript

Title: Local-scale elevation patterns of Atlantic Forest tree community variation and assembly drivers in a conservation hotspot in southeastern Brazil

Authors: Felipe Cito Nettesheim, Mário Luís Garbin, Marcos Gervasio Pereira, Dorothy Sue Dunn de Araujo, Carlos Eduardo de Viveiros Grelle



PII: S0367-2530(18)30041-0
DOI: <https://doi.org/10.1016/j.flora.2018.08.016>
Reference: FLORA 51303

To appear in:

Received date: 19-1-2018
Revised date: 20-8-2018
Accepted date: 24-8-2018

Please cite this article as: Cito Nettesheim F, Garbin ML, Gervasio Pereira M, de Araujo DSD, de Viveiros Grelle CE, Local-scale elevation patterns of Atlantic Forest tree community variation and assembly drivers in a conservation hotspot in southeastern Brazil, *Flora* (2018), <https://doi.org/10.1016/j.flora.2018.08.016>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Local-scale elevation patterns of Atlantic Forest tree community variation and assembly drivers in a conservation hotspot in southeastern Brazil

Felipe Cito Nettesheim (felipe@citos.net)^{a, e}, Mário Luís Garbin (mlgarbin@gmail.com)^b, Marcos Gervasio Pereira (mgervasiopereira01@gmail.com)^c, Dorothy Sue Dunn de Araujo (dorothy@jbrj.gov.br)^d, Carlos Eduardo de Viveiros Grelle (cevgrelle@gmail.com)^a

^a Programa de Pós-Graduação em Ecologia, Laboratório de Ecologia Vegetal, Universidade Federal do Rio de Janeiro, Av. Carlos Chagas Filho 373, Cidade Universitária (Ilha do Fundão), Rio de Janeiro, RJ, Brazil

^b Programa de Pós-Graduação em Ecologia de Ecossistemas, Laboratório de Ecologia Vegetal, Av. Comissário José Dantas de Melo 21, Boa Vista, Vila Velha, ES, Brazil

^c Laboratório de Gênese e Classificação de Solos, Universidade Federal Rural do Rio de Janeiro, Instituto de Agronomia, Departamento de Solos, Rodovia BR 465 km 7, Seropédica, RJ, Brazil

^d Instituto de Pesquisas Jardim Botânico do Rio de Janeiro, Sistemática Vegetal, Rua Pacheco Leão 915, Jardim Botânico, Rio de Janeiro, RJ, Brazil

^e Corresponding author

Highlights

- Focus on the richest section of a larger tropical elevational gradient.
- Elevational patterns typical to large spatial distances also occur in a local-scale.
- Tree community displays local-scale continuous gradual changes of dominant species.
- The environment is a main driver of local-scale tropical tree community assembly.

Abstract

Understanding natural community assembly along elevational gradients has long attracted the attention of ecologists and botanists. Here, we study a tropical local-scale elevational gradient at a dissected mountainous terrain to understand if drivers of tree community variation and assembly patterns are similar to those reported for greater spatial distances and elevational gradients in Atlantic Forest region. We inventoried trees with Diameter at Breast Height (DBH) ≥ 5.0 cm in 154 plots (10 x 10 m; 1.54 ha) systematically distributed along a local-scale (< 1 km²) steep

Download English Version:

<https://daneshyari.com/en/article/10129286>

Download Persian Version:

<https://daneshyari.com/article/10129286>

[Daneshyari.com](https://daneshyari.com)