

The cryptic regulation of diversity by functionally-complementary large tropical forest herbivores. *Journal of Ecology*

Villar_et_alJoEco2019_data

Datasets used to estimate the effects of defaunation from functionally distinct large herbivores on the spatiotemporal structure of seedling communities in the Atlantic Forest of Brazil

Authors

Nacho Villar^{a,1}, Tadeu Siqueira^a, Valesca Zipparro^a, Fabiano Farah^a, Gabriela Schmaedecke^a, Luana Hortenci^a, Carlos Rodrigo Brocardo^a, Pedro Jordano^b and Mauro Galetti^{a,c}

^a Departamento de Ecologia, Instituto de Biociências, Universidade Estadual Paulista (UNESP), CP 199, 13506-900 Rio Claro, São Paulo, Brazil

^b Integrative Ecology Group, Estación Biológica de Doñana, Consejo Superior de Investigaciones Científicas (EBD-CSIC), Av. Americo Vespucio 26, E-41092, Sevilla, Spain

^c Department of Biology, University of Miami, Coral Gables, FL, USA

¹ Author for correspondence: nachoprada@gmail.com

File list and description (files found within Villar_et_alJoEco2019_data.zip)

Folder “diversity data”

This folder contains the datasets used for the analyses of responses of seedling abundance, alpha and beta diversity to experimental exclusion at every region.

CAR_divers_full: data and covarites for Ilha de Cardoso (full community data)

CBO_divers_full: data and covarites for Carlos Botelho (full community data)

ITA_divers_full: data and covarites for Itamambuca (full community data)

VGM_divers_full: data and covarites for Vargem Grande (full community data)

ITA_divers_dominant: data and covarites for Itamambuca (subset of DOMINANT species)

ITA_divers_rare: data and covarites for Itamambuca (subset of RARE species)

Description of fields (columns) included in every file:

- Site
- *UnPlot*: unique plot identifier [categorical]
- *UniquePair*: unique pair plot identifier [categorical]
- *Treatment*: experimental treatment to what the plot belongs [categorical]
- *Time*: survey when measures were taken [categorical]
- *RealTime*: months since the beginning of the experiment when measures were taken [continuous]
- *jaccdist*: jaccard distance to centroid [continuous]
- *Heucdist*: Euclidean distance to centroid after Hellinger transformation [continuous]
- *Abund*: seedling abundance [continuous]
- *Estar*: estar diversity index [continuous]
- *Hstar*: Hstar diversity index [continuous]
- *Dstar*: Dstar diversity index [continuous]
- *Adplams*: abundance of adult palms in the vicinity of the plot [continuous]

Folder “species composition data”

This folder contains the datasets used for the analyses of Kendall rank correlation tests.

CAR_Ranktime_OpenFull: species composition matrix data for Ilha de Cardoso
(full community in the OPEN treatment)

CAR_Ranktime_OpDominant: species composition matrix data for Ilha de Cardoso
(DOMINANT species in the OPEN treatment)

CAR_Ranktime_ClosedFull: species composition matrix data for Ilha de Cardoso
(full community in the CLOSED treatment)

CAR_Ranktime_ClDominant: species composition matrix data for Ilha de Cardoso
(DOMINANT species in the CLOSED treatment)

ITA_Ranktime_OpenFull: species composition matrix data for Itamambuca
(full community in the OPEN treatment)

ITA_Ranktime_OpDominant: species composition matrix data for Itamambuca
(DOMINANT species in the OPEN treatment)

ITA_Ranktime_ClosedFull: species composition matrix data for Itamambuca
(full community in the CLOSED treatment)

ITA_Ranktime_ClDominant: species composition matrix data for Itamambuca
(DOMINANT species in the CLOSED treatment)

CBO_Ranktime_OpenFull: species composition matrix data for Carlos Botelho
(full community in the OPEN treatment)

CBO_Ranktime_OpDominant: species composition matrix data for Carlos Botelho
(DOMINANT species in the OPEN treatment)

CBO_Ranktime_ClosedFull: species composition matrix data for Carlos Botelho
(full community in the CLOSED treatment)

CBO_Ranktime_ClDominant: species composition matrix data for Carlos Botelho
(DOMINANT species in the CLOSED treatment)

VGM_Ranktime_OpenFull: species composition matrix data for Vargem Grande
(full community in the OPEN treatment)

VGM_Ranktime_OpDominant: species composition matrix data for Vargem Grande
(DOMINANT species in the OPEN treatment)

VGM_Ranktime_ClosedFull: species composition matrix data for Vargem Grande
(full community in the CLOSED treatment)

VGM_Ranktime_ClDominant: species composition matrix data for Vargem Grande
(DOMINANT species in the CLOSED treatment)

Description of matrix included in every file: rows are scientific species names (genera and species merged) and columns are species abundances at every survey.