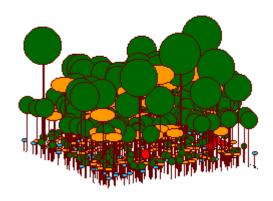Virtual Ecology Portal

Computational resources for learning Ecology

"Essentially all models are wrong, but some are usefull" *George Box*

"Theory without data is fantasy, but data without theory is caos" *Lawler,E. 1971*

"A measure of the usefulness of a theory is its ability to fail in informative ways." *Rosindell et al. 2011*

Welcome

This wiki is a collaborative platform for the development and use computational simulation for teaching and learn ecological models.

Here you can find:

- Didactic sequences
- The EcoVirtual R package for teaching ecology
- Guidelines for using other computing resources
- *Links* for more study material

How to participate

Use of material

- All material on this site is free to use and reproduce, as long as its authorship is acknowledged.
- The scripts are independent and can be combined in different didactic sequences.
- We would appreciate if you let us know how you use EcoVirtual material.

Code Repository

The code for both packages, EcoVirtual and EcoVirtualPlugin, are in the github repository. To clone, contribute or indicate a bug, join the EcoVirt github group https://github.com/ecovirt.

Collaborate

- Send criticisms, questions and suggestions by email.
- Report issues or request improvements to the EcoVirtual package at github repository
- If you want to participate more close as package developer, please contact us.

Problems with math expressions

If you have problems viewing mathematical expressions and symbols on this wiki, look for a plugin or extension that has ASCIIMath in the name for your browser. In **Chrome** the extension is named *MathML-2-CSS*. Firefox recognizes formulas by default, other browsers have not been tested.

Courses that use EcoVirtual

This list includes only brazilian courses that the teacher told us is using our portal. If you are using, please send us a message and we will be happy to include your course on this list.

Undergraduate

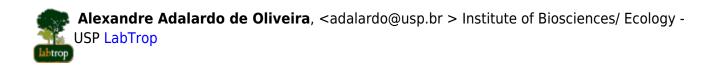- Ecology of plant populations and communities, USP
- Ecologia Virtual, USP

Postgraduate

- Community Ecology, USP
- Population ecology, USP
- Summer School on Mathematical Biology, ICTP-SAIFR
- Community Ecology, Unicamp
- Theoretical Ecology, UFRN
- Population Ecology, UFAM - INPA

Coordinators

Alexandre Adalardo de Oliveira, <adalardo@usp.br > Institute of Biosciences/ Ecology - USP LabTrop

Paulo Inácio Prado, prado@ib.usp.br Institute of Biosciences/ Ecology - USP Laboratory of Theoretical Ecology

Collaborators

- André Chalom, USP
- Melina Leite, USP
- Marcel Vaz, USP
- Renato Coutinho, UNESP

To learn more

- Our motivation statement.
- Lecture on our concept of math literacy:
  - Video
  - Slides

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Last update: **2022/09/16 06:34**