



ECOLOGICAL MODELLING

An International Journal on
**ECOLOGICAL MODELLING AND
SYSTEMS ECOLOGY**



Editor-in-chief
Brian D. Fath

Ecological Modelling

Volume 259, Pages 1-74 (24 June 2013)

Editorial Board

Page iii

Research Articles

A model for the dynamics of malaria in Paria Peninsula, Sucre State, Venezuela

Original Research Article

Pages 1-9

Diego J. Rodríguez, Laura Delgado, Santiago Ramos, Vanessa Weinberger, Yadira Rangel

Study of chaotic behavior in predator-prey interactions in a chemostat

Original Research Article

Pages 10-15

Emad Ali, Mohammed Asif, AbdelHamid Ajbar

Global sensitivity analysis of a modified CENTURY model for simulating impacts of harvesting fine woody biomass for bioenergy

Original Research Article

Pages 16-23

Fugui Wang, David J. Mladenoff, Jodi A. Forrester, Cindy Keough, William J. Parton

Approximating the dispersal of multi-species ecological entities such as communities, ecosystems or habitat types

Original Research Article

Pages 24-29

Jussi Laitila, Atte Moilanen

Using Maxent to model the historic distributions of stonefly species in Illinois streams: The effects of regularization and threshold selections

Original Research Article

Pages 30-39

Yong Cao, R. Edward DeWalt, Jason L. Robinson, Tari Tweddle, Leon Hinz, Massimo Pessino

Comparison of two light attenuation parameterization focusing on timing of spring bloom and primary production in the Baltic Sea

Original Research Article

Pages 40-49

Zhenwen Wan, Hongsheng Bi, Jun She

Discrete and continuous time simulations of spatial ecological processes predict different final population sizes and interspecific competition outcomes

Original Research Article

Pages 50-61

Rebecca Mancy, Patrick Prosser, Simon Rogers

Behind the scenes of population viability modeling: Predicting butterfly metapopulation dynamics under climate change

Original Research Article

Pages 62-73

Viktoriia Radchuk, Karin Johst, Jürgen Groeneveld, Volker Grimm, Nicolas Schtickzelle