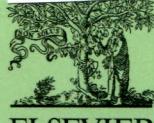


ПН  
E20/m1



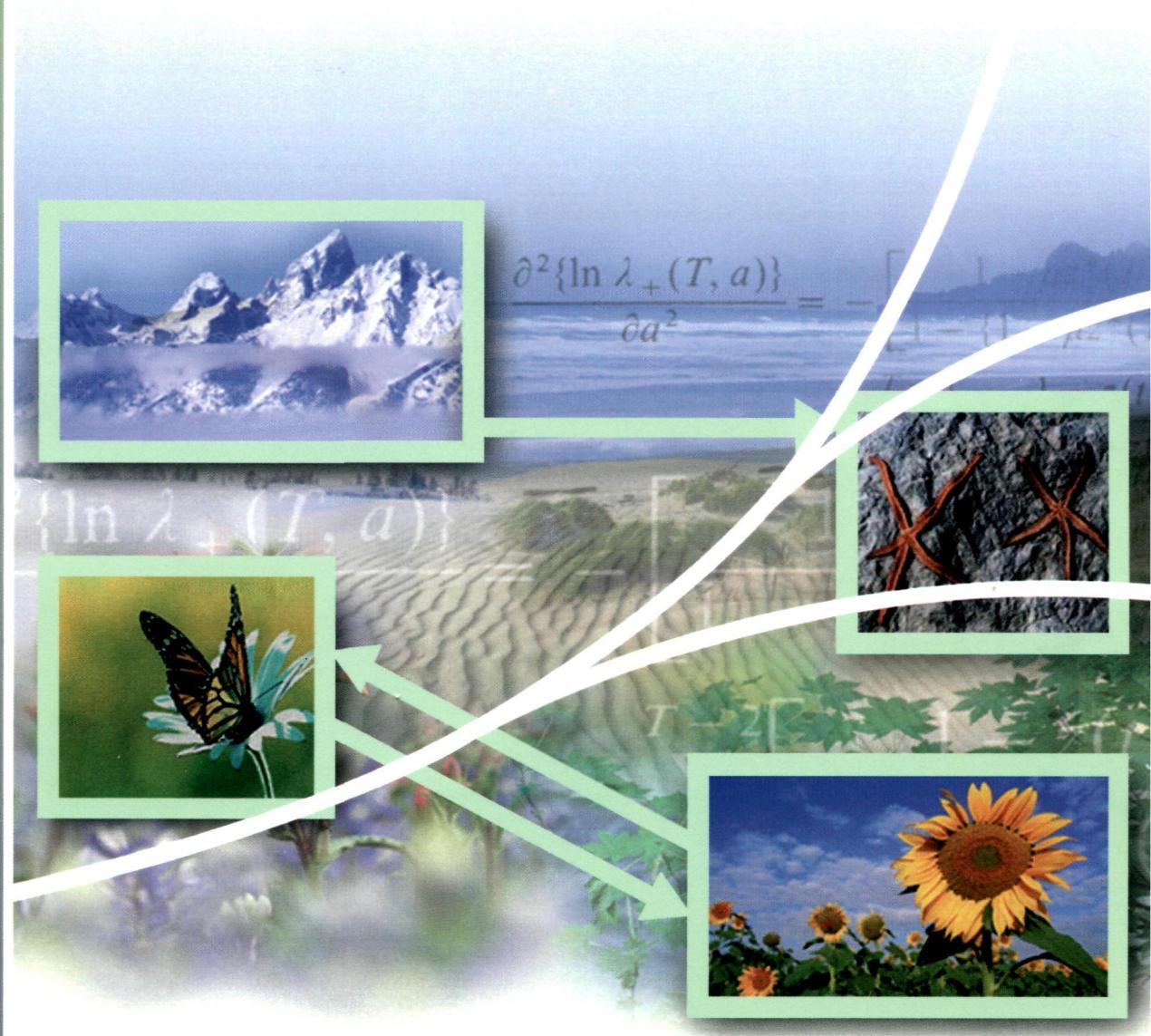
ELSEVIER

Volume 257, 24 May 2013

ISSN 0304-3800

# ECOLOGICAL MODELLING

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



Editor-in-chief  
**Brian D. Fath**

## CONTENTS

(Abstracts/contents list published in: *Biological Abstracts*, *Cambridge Scientific Abstracts*, *Elsevier BIOBASE/Current Awareness in Biological Sciences*, *Current Contents AB & ES*, *Ecological Abstracts*, *Ecology Abstracts*, *Environment Abstracts*, *Environmental Periodicals Bibliography (EPB)*); Also covered in the abstract and citation database SCOPUS®.  
Full text available on ScienceDirect®.

### Research Articles

Choice of study area and predictors affect habitat suitability projections, but not the performance of species distribution models of stream biota S. Domisch, M. Kuemmerlen, S.C. Jähnig and P. Haase (Frankfurt am Main, Germany and Gelnhausen, Germany).....	1
Combining system dynamics and hybrid particle swarm optimization for land use allocation X. Liu, J. Ou, X. Li and B. Ai (Guangzhou, PR China).....	11
<b>SAILHFlood: A radiative transfer model for flooded vegetation</b> M.E. Beget, V.A. Bettachini, C.M. Di Bella (Buenos Aires, Argentina) and F. Baret (Avignon, France).....	25
Wildlife-vehicle collision mitigation: Is partial fencing the answer? An agent-based model approach F. Ascensão (Lisboa, Portugal and Bozeman, MT, USA), A. Clevenger (Bozeman, MT, USA), M. Santos-Reis, P. Urbano (Lisboa, Portugal) and N. Jackson (Ottawa, ON, Canada).....	36
Simulating fish dispersal in stream networks fragmented by multiple road crossings J.S. Perkin, K.B. Gido, O. Al-Ta'an and C. Scoglio (Manhattan, KS, USA).....	44
A quantitative approach to evaluating ecosystem services R.A. Logsdon and I. Chaubey (West Lafayette, IN, USA).....	57
Can simple phosphorus mass balance models guide management decisions? A case study in the Bay of Quinte, Ontario, Canada W. Zhang, D.-K. Kim (Toronto, Canada), Y.R. Rao, S. Watson (Burlington, Canada), S. Mugalingam (Ontario, Canada), T. Labencki, M. Dittrich (Toronto, Canada), A. Morley (Kingston, Canada) and G.B. Arhonditsis (Toronto, Canada).....	66
How do hydrological and climatic conditions influence the diversity and behavioural trends of water birds in small Mediterranean reservoirs? A community-level modelling approach D. Carvalho (Vila Real, Portugal), P. Horta, H. Raposeira (Viseu, Portugal), M. Santos (Vila Real, Portugal), A. Luís (Aveiro, Portugal) and J.A. Cabral (Vila Real, Portugal) .....	80
Interannual climate variability and population density thresholds can have a substantial impact on simulated tree species' migration J.E.M.S. Nabel, N. Zurbriggen (Birmensdorf, Switzerland and Zürich, Switzerland) and H. Lischke (Birmensdorf, Switzerland).....	88
Modeling the pH in the tidal fresh Potomac River under conditions of varying hydrology and loads C.F. Cerco, T. Threadgill, M.R. Noel (Vicksburg, MS, USA) and S. Hinz (Austin, TX, USA).....	101

