

September 2013



Volume 94 No. 9

# ECOLOGY

A PUBLICATION OF THE ECOLOGICAL SOCIETY OF AMERICA



## ***Reports***

Leaf traits within communities: Context may affect the mapping of traits to function

Estimating extinction from species-area relationships: why the numbers  
do not add up

## ***Articles***

Bee diversity effects on pollination depend on functional complementarity  
and niche shifts

Female elk contacts are neither frequency nor density dependent

## CONTENTS

## Reports

**1893**

Leaf traits within communities: Context may affect the mapping of traits to function  
• JENNIFER L. FUNK AND WILLIAM K. CORNWELL

**1898**

Beta diversity of marine bacteria depends on temporal scale • STEPHEN M. HATOSY, JENNIFER B. H. MARTINY, ROHAN SACHDEVA, JOSHUA STEELE, JED A. FUHRMAN, AND ADAM C. MARTINY

**1905**

Estimating extinction from species-area relationships: why the numbers do not add up  
• FANGLIANG HE AND STEPHEN HUBBELL

**1913**

To mix or not to mix: comparing the predictive performance of mixture models vs. separate species distribution models • FRANCIS K. C. HUI, DAVID I. WARTON, SCOTT D. FOSTER, AND PIERS K. DUNSTAN

**1920**

Quantitative gradient of subsidies reveals a threshold in community-level trophic cascades  
• AMANDA J. KLEMMER AND JOHN S. RICHARDSON

## Articles

**1927**

Morphological traits and density of foundation species modulate a facilitation cascade in Australian mangroves • MELANIE J. BISHOP, JILL FRASER, AND PAUL E. GRIBBEN

**1937**

An invasive species facilitates the recovery of salt marsh ecosystems on Cape Cod • MARK D. BERTNESS AND TYLER C. COVERDALE

**1944**

Realistic changes in seaweed biodiversity affect multiple ecosystem functions on a rocky shore  
• MATTHEW E. S. BRACKEN AND SUSAN L. WILLIAMS

**1955**

Genetic and experimental evidence for a mixed-age, mixed-origin bank of kelp microscopic stages in southern California • LAURA T. CARNEY, ANDREW J. BOHONAK, MATTHEW S. EDWARDS, AND FILIPE ALBERTO

**1966**

Large birth size does not reduce negative latent effects of harsh environments across life stages in two coral species • AARON C. HARTMANN, KRISTEN L. MARHAVER, VALÉRIE F. CHAMBERLAND, STUART A. SANDIN, AND MARK J. A. VERMEIJ

**1977**

Biodiversity effects of ecosystem engineers are stronger on more complex ecosystem processes • ADRIANO CALIMAN, LUCIANA S. CARNEIRO, JOÃO J. F. LEAL, VINICIUS F. FARJALLA, REINALDO L. BOZELLI, AND FRANCISCO A. ESTEVES

**1986**

Pattern without bias: local-regional richness relationship revisited • ROBERT C. SZAVA-KOVATS, ARGO RONK, AND MEELIS PÄRTEL

**1993**

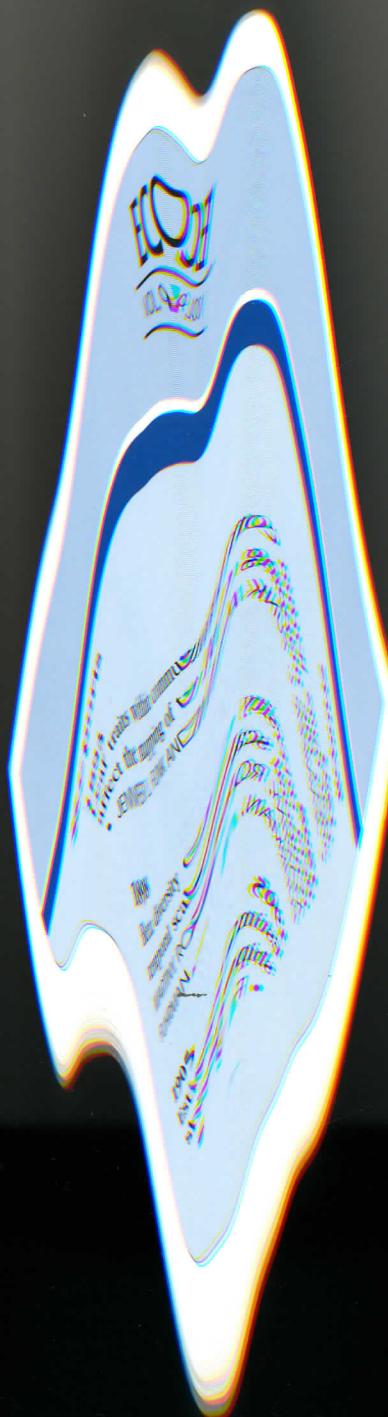
Stochastic processes dominate during boreal bryophyte community assembly • NICOLE J. FENTON AND YVES BERGERON

**2007**

Climate interacts with soil to produce beta diversity in Californian plant communities • B. M. FERNANDEZ-GOING, S. P. HARRISON, B. L. ANACKER, AND H. D. SAFFORD

**2019**

Do fungivores trigger the transfer of protective metabolites from host plants to arbuscular mycorrhizal hyphae? • MARIE DUHAMEL, ROEL PEL, ASTRA OOMS, HEIKE BÜCKING, JAN JANSA, JACINTHA ELLERS, NICO M. VAN STRAALEN, TJALF WOUDE, PHILIPPE VANDENKOORNHUYSE, AND E. TOBY KIERS



ECOLOGY  
Volume 94 Number 9 September 2013  
ISSN 0013-1732 • DOI 10.1890/12-0658

CONTENTS

1955 Genetic and experimental evidence for a mixed-age, mixed-origin bank of kelp microscopic stakes in southern California • LAURA T. CARNEY, ANDREW J. BOHONAK, MATTHEW S. EDWARDS, AND FLIPE ALBERTO

1966 Large birth size does not reduce negative latent effects of harsh environments across life stages in two coral species • AARON C. HARTMANN, KIRSTEN L. MARHAVER, VALÉRIE F. CHAMBERLAND, STUART A. SANDIN, AND MARK J. A. VERMEIJ

1977 Biodiversity effects of ecosystem engineers are stronger on more complex ecosystem processes • ADRIANO CALIMAN, LUCIANA S. CARNEIRO, JOÃO J. F. LEAL VINCUS F. FARJALLA, REINALDO L. BOZELLI, AND FRANCISCO A. ESTEVES

1986 Pattern without bias: local-regional richness relationship revisited • ROBERT C. SZAVA-KOVATS, ARGO RONK, AND MEELIS PÄRTEL

1993 Stochastic processes dominate during boreal bryophyte community assembly • NICOLE J. FENION AND YVES BERGERON

2007 Climate interacts with soil to produce beta diversity in Californian plant communities • B. M. FERNANDEZ-GOING, S. P. HARRISON, B. L. ANACKER, AND H. D. SAFFORD

2019 Do fungivores trigger the transfer of protective metabolites from host plants to arbuscular mycorrhizal hyphae? • MARIE DUHAMEL, ROEL PEL, ASTRA OONS, HEIKE BÜCKING, JAN JANSA, JACINTHA ELLERS, NICOLAS VAN STRAALEN, TJALF WOUDE, PHILIPPE VANDENHOORNHUYSE, AND E. TOBY KIERS

about the back cover