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# ECOLOGY

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Decreasing litter size of marmots over time: a life history response to climate change?

## Articles

Cryptic loss of montane avian richness and high community turnover over 100 years

Horizontal, but not vertical, biotic interactions affect fine-scale plant distribution patterns in a low-energy system

Regional constraints to biological nitrogen fixation in post-fire forest communities



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## Reports

A spatial mark–resight model augmented with telemetry data

Rahel Sollmann, Beth Gardner, Arielle W. Parsons, Jessica J. Stocking, Brett T. McClintock, Theodore R. Simons, Kenneth H. Pollock, Allan F. O'Connell

The AIC model selection method applied to path analytic models compared using a d-separation test

Bill Shipley

Physiological effects of diet mixing on consumer fitness: a meta-analysis

Jonathan S. Lefcheck, Matthew A. Whalen, Theresa M. Davenport, Joshua P. Stone, J. Emmett Duffy

The cost of safety: Refuges increase the impact of predation risk in aquatic systems

John L. Orrock, Evan L. Preisser, Jonathan H. Grabowski, Geoffrey C. Trussell

Decreasing litter size of marmots over time: a life history response to climate change?

Marion Tafani, Aurélie Cohas, Christophe Bonenfant, Jean-Michel Gaillard, Dominique Allainé

## Articles

Social structure mediates environmental effects on group size in an obligate cooperative breeder, *Suricata suricatta*

A. W. Bateman, A. Ozgul, J. F. Nielsen, T. Coulson, T. H. Clutton-Brock

Cryptic loss of montane avian richness and high community turnover over 100 years

Morgan W. Tingley, Steven R. Beissinger

Relaxing the closure assumption in occupancy models: staggered arrival and departure times

William L. Kendall, James E. Hines, James D. Nichols, Evan H. Campbell Grant

Early maternal experience shapes offspring performance in the wild

Tim Burton, S. McKelvey, D. C. Stewart, J. D. Armstrong, N. B. Metcalfe

A community of metacommunities: exploring patterns in species distributions across large geographical areas

Renato Henriques-Silva, Zoë Lindo, Pedro R. Peres-Neto

Experimental evaluation of predation as a facilitator of invasion success in a stream fish

Douglas F. Fraser, Bradley A. Lamphere

Synthesizing larval competence dynamics and reef-scale retention reveals a high potential for self-recruitment in corals

Joana Figueiredo, Andrew H. Baird, Sean R. Connolly

Stochastic species distributions are driven by organism size

Janne Soininen, Jenni J. Korhonen, Miska Luoto

Horizontal, but not vertical, biotic interactions affect fine-scale plant distribution patterns in a low-energy system

Peter C. le Roux, Jonathan Lenoir, Loïc Pellissier, Mary S. Wisz, Miska Luoto

Enough is enough: the effects of symbiotic ant abundance on herbivory, growth, and reproduction in an African acacia

Todd M. Palmer, Alison K. Brody

The roles of productivity and ecosystem size in determining food chain length in tropical terrestrial ecosystems

Hillary S. Young, Douglas J. McCauley, Robert B. Dunbar, Michael S. Hutson, Ana Miller Ter-Kuile, Rodolfo Dirzo

Phenotypic plasticity of plant response to herbivore eggs: effects on resistance to caterpillars and plant development

Foteini G. Pashalidou, Dani Lucas-Barbosa, Joop J. A. van Loon, Marcel Dicke, Nina E. Fatouros

Microbial abundance and composition influence litter decomposition response to environmental change

Steven D. Allison, Ying Lu, Claudia Weihe, Michael L. Goulden, Adam C. Martiny, Kathleen K. Treseder, Jennifer B. H. Martiny

Responses of ecosystem carbon cycle to experimental warming: a meta-analysis

Meng Lu, Xuhui Zhou, Qiang Yang, Hui Li, Yiqi Luo, Changming Fang, Jiakuan Chen, Xin Yang, Bo Li

Regional constraints to biological nitrogen fixation in post-fire forest communities

Stephanie Yelenik, Steven Perakis, David Hibbs

Loss of native herbaceous species due to woody plant encroachment facilitates the

establishment of an invasive grass  
Karen M. Alofs, Norma L. Fowler

## Comments

Species–area relationships always overestimate extinction rates from habitat loss:  
comment

Jacob Bock Axelsen, Uri Roll, Lewi Stone, Andrew Solow

## Book Reviews

Book Reviews  
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- **The neglected ten percent**  
K. C. Burns
- **Statistics for spatio-temporal data—a new frontier**  
Bertram Ostendorf
- **Stopping the hands of time**  
Aaron M. Ellison
- **A unified paradigm for the climatic elevations of global treelines**  
William K. Smith
- **A static manual for a dynamic planet**  
Raphael Sagarin

## Books and Monographs Received

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