

Not renewed  
yet for 2014?  
Then this is your last issue!

THE ECOLOGICAL SOCIETY OF AMERICA

# Frontiers in Ecology and the Environment

Issue No 1

Volume 12

February 2014



**Special Issue:**

**Macrosystems ecology – an emerging perspective**

esa



---

**Macrosystems ecology: big data, big ecology**

Patricia A Soranno and David S Schimel

Frontiers in Ecology and the Environment 2014 12:1, 3-3

---

**Macrosystems ecology: understanding ecological patterns and processes at continental scales**

James B Heffernan, Patricia A Soranno, Michael J Angilletta Jr, Lauren B Buckley, Daniel S Gruner, Tim H Keitt, James R Kellner, John S Kominoski, Adrian V Rocha, Jingfeng Xiao, Tamara K Harms, Simon J Goring, Lauren E Koenig, William H McDowell, Heather Powell, Andrew D Richardson, Craig A Stow, Rodrigo Vargas, and Kathleen C Weathers

Frontiers in Ecology and the Environment 2014 12:1, 5-14

---

**Approaches to advance scientific understanding of macrosystems ecology**

Ofir Levy, Becky A Ball, Ben Bond-Lamberty, Kendra S Cheruvellil, Andrew O Finley, Noah R Lottig, Surangi W Punyasena, Jingfeng Xiao, Jizhong Zhou, Lauren B Buckley, Christopher T Filstrup, Tim H Keitt, James R Kellner, Alan K Knapp, Andrew D Richardson, David Tchong, Michael Toomey, Rodrigo Vargas, James W Voordeckers, Tyler Wagner, and John W Williams

Frontiers in Ecology and the Environment 2014 12:1, 15-23

---

**Completing the data life cycle: using information management in macrosystems ecology research**

Janine Rüegg, Corinna Gries, Ben Bond-Lamberty, Gabriel J Bowen, Benjamin S Felzer, Nancy E McIntyre, Patricia A Soranno, Kristin L Vanderbilt, and Kathleen C Weathers

Frontiers in Ecology and the Environment 2014 12:1, 24-30

---

**Creating and maintaining high-performing collaborative research teams: the importance of diversity and interpersonal skills**

Kendra S Cheruvellil, Patricia A Soranno, Kathleen C Weathers, Paul C Hanson, Simon J Goring, Christopher T Filstrup, and Emily K Read

Frontiers in Ecology and the Environment 2014 12:1, 31-38

---

**Improving the culture of interdisciplinary collaboration in ecology by expanding measures of success**

Simon J Goring, Kathleen C Weathers, Walter K Dodds, Patricia A Soranno, Lynn C Sweet, Kendra S Cheruvellil, John S Kominoski, Janine Rüegg, Alexandra M Thorn, and Ryan M Utz

Frontiers in Ecology and the Environment 2014 12:1, 39-47

---

**Riverine macrosystems ecology: sensitivity, resistance, and resilience of whole river basins with human alterations**

Kevin E McCluney, N LeRoy Poff, Margaret A Palmer, James H Thorp, Geoffrey C Poole, Bradley S Williams, Michael R Williams, and Jill S Baron

Frontiers in Ecology and the Environment 2014 12:1, 48-58

---

**Climate forcing of wetland landscape connectivity in the Great Plains**

Nancy E McIntyre, Christopher K Wright, Sharmistha Swain, Katharine Hayhoe, Ganming Liu, Frank W Schwartz, and Geoffrey M Henebry

Frontiers in Ecology and the Environment 2014 12:1, 59-64

---

**Cross-scale interactions: quantifying multi-scaled cause–effect relationships in macrosystems**

Patricia A Soranno, Kendra S Cheruvellil, Edward G Bissell, Mary T Bremigan, John A Downing, Carol E Fergus, Christopher T Filstrup, Emily N Henry, Noah R Lottig, Emily H Stanley, Craig A Stow, Pang-Ning Tan, Tyler Wagner, and Katherine E Webster

Frontiers in Ecology and the Environment 2014 12:1, 65-73

---

**Ecological homogenization of urban USA**

Peter M Groffman, Jeannine Cavender-Bares, Neil D Bettez, J Morgan Grove, Sharon J Hall, James B Heffernan, Sarah E Hobbie, Kelli L Larson, Jennifer L Morse, Christopher Neill, Kristen Nelson, Jarlath O'Neil-Dunne, Laura Ogden, Diane E Pataki, Colin Polsky, Rinku Roy Chowdhury, and Meredith K Steele  
Frontiers in Ecology and the Environment 2014 12:1, 74-81

---

**What is one datum worth?**

Adrian Burton

Frontiers in Ecology and the Environment 2014 12:1, 88-88