

Editorial

- 1133 **Continental-Scale Governance and the Hastening of Loss of Australia's Biodiversity**
Euan G. Ritchie, Corey J. A. Bradshaw, Chris R. Dickman, Richard Hobbs,
Christopher N. Johnson, Emma L. Johnston, William F. Laurance, David Lindenmayer,
Michael A. McCarthy, Dale G. Nimmo, Hugh H. Possingham, Robert L. Pressey,
David M. Watson, and John Woinarski

Editor's Acknowledgments

1136

Special Section: Incorporating Climate Change into Risk Analyses under the U.S. Endangered Species Act

- 1137 **Introduction**
Robin S. Waples
- 1138 **Climate Change, Marine Environments, and the U.S. Endangered Species Act**
Erin E. Seney, Melanie J. Rowland, Ruth Ann Lowery, Roger B. Griffiths, and
Michelle M. McClure
- 1147 **Choosing and Using Climate-Change Scenarios for Ecological-Impact Assessments and
Conservation Decisions**
Amy K. Snover, Nathan J. Mantua, Jeremy S. Littell, Michael A. Alexander,
Michelle M. McClure, and Janet Nye
- 1158 **Floodplain Rehabilitation as a Hedge against Hydroclimatic Uncertainty in a Migration
Corridor of Threatened Steelhead**
David A. Boughton and Andrew S. Pike
- 1169 **Incorporating Climate and Ocean Change into Extinction Risk Assessments for 82 Coral
Species**
Russell E. Brainard, Mariska Weijerman, C. Mark Eakin, Paul McElhany,
Margaret W. Miller, Matt Patterson, Gregory A. Piniak, Matthew J. Dunlap, and
Charles Birkeland
- 1179 **Interactive Effects of Water Diversion and Climate Change for Juvenile Chinook Salmon in
the Lemhi River Basin (U.S.A.)**
Annika W. Walters, Krista K. Bartz, and Michelle M. McClure
- 1190 **Estimating Effects of Tidal Power Projects and Climate Change on Threatened and
Endangered Marine Species and Their Food Web**
D. Shallin Busch, Correigh M. Greene, and Thomas P. Good
- 1201 **Combined Effects of Climate Change and Bank Stabilization on Shallow Water Habitats of
Chinook Salmon**
Jeffrey C. Jorgensen, Michelle M. McClure, Mindi B. Sheer, and Nancy L. Munn
- 1212 **Structuring Decisions for Managing Threatened and Endangered Species in a Changing
Climate**
Robin Gregory, Joseph Arvai, and Leah R. Gerber
- 1222 **Incorporating Climate Science in Applications of the U.S. Endangered Species Act for
Aquatic Species**
Michelle M. McClure, Michael Alexander, Diane Borggaard, David Boughton, Lisa Crozier,
Roger Griffiths, Jeffrey C. Jorgensen, Steven T. Lindley, Janet Nye, Melanie J. Rowland,
Erin E. Seney, Amy Snover, Christopher Toole, and Kyle van Houtan

Conservation Practice and Policy

- 1234 **Adaptive Comanagement of a Marine Protected Area Network in Fiji**
Rebecca Weeks and Stacy D. Jupiter
- 1245 **A Strategy for Monitoring and Managing Declines in an Amphibian Community**
Evan H. Campbell Grant, Elise F. Zipkin, James D. Nichols, and J. Patrick Campbell

Reviews

- 1254 **Biodiversity Offsets and the Challenge of Achieving No Net Loss**
Toby A. Gardner, Amrei Von Hase, Susie Brownlie, Jonathan M. M. Ekstrom,
John D. Pilgrim, Conrad E. Savy, R. T. Theo Stephens, Jo Treweek, Graham T. Ussher,
Gerri Ward, and Kerry Ten Kate
- 1265 **Actual and Potential Use of Population Viability Analyses in Recovery of Plant Species
Listed under the U.S. Endangered Species Act**
Sara L. Zeigler, Judy P. Che-Castaldo, and Maile C. Neel

Essay

- 1279 **Derivation of the Extrinsic Values of Biological Diversity from Its Intrinsic Value and of
Both from the First Principles of Evolution**
Peter S. White

Contributed Papers

- 1286 **Benefits of Investing in Ecosystem Restoration**
Rudolf S. De Groot, James Blignaut, Sander van der Ploeg, James Aronson,
Thomas Elmqvist, and Joshua Farley
- 1294 **Use of Inverse Spatial Conservation Prioritization to Avoid Biological Diversity Loss
Outside Protected Areas**
Santtu Kareksela, Atte Moilanen, Seppo Tuominen, and Janne S. Kotiaho
- 1304 **Importance of the National Petroleum Reserve—Alaska for Aquatic Birds**
Jonathan Bart, Robert M. Platte, Brad Andres, Stephen Brown, James A. Johnson, and
William Larned
- 1313 **Economic and Ecological Outcomes of Flexible Biodiversity Offset Systems**
Thomas J. Habib, Daniel R. Farr, Richard R. Schneider, and Stan Boutin
- 1324 **Mitigating the Effect of Development on Bats in England with Derogation Licensing**
Emma Louise Stone, Gareth Jones, and Stephen Harris
- 1335 **Offsets and Conservation of the Species of the EU Habitats and Birds Directives**
Baptiste Regnery, Denis Couvet, and Christian Kerbiriou
- 1344 **Incentivizing Monitoring and Compliance in Trophy Hunting**
Nils Bunnefeld, Charles T. T. Edwards, Anagaw Atickem, Fetene Hailu, and
E. J. Milner-Gulland
- 1355 **A Novel Approach to Assessing the Prevalence and Drivers of Illegal Bushmeat Hunting in
the Serengeti**
Ana Nuno, Nils Bunnefeld, Loiruck C. Naiman, and E. J. Milner-Gulland
- 1366 **Multiple Lineages of Avian Malaria Parasites (*Plasmodium*) in the Galapagos Islands and
Evidence for Arrival via Migratory Birds**
I. I. Levin, P. Zwieters, S. L. Deem, E. A. Geest, J. M. Higashiguchi, T. A. Iezhova,
G. Jiménez-Uzcátegui, D. H. Kim, J. P. Morton, N. G. Perlut, R. B. Renfrew, E. H. R. Sari,
G. Valkiunas, and P. G. Parker
- 1378 **The Threat of Disease Increases as Species Move Toward Extinction**
Matthew J. Heard, Katherine F. Smith, Kelsey J. Ripp, Melanie Berger, Jane Chen,
Justin Dittmeier, Maggie Goter, Stephen T. McGarvey, and Elizabeth Ryan

- 1389 **Temporal Analysis of Genetic Structure to Assess Population Dynamics of Reintroduced Swift Foxes**
Catherine I. Cullingham and Axel Moehrensclager
- 1399 **Life History as a Predictor of Salamander Recovery Rate from Timber Harvest in Southern Appalachian Forests, U.S.A.**
Grant M. Connette and Raymond D. Semlitsch
- 1410 **Roles of Patch Characteristics, Drought Frequency, and Restoration in Long-Term Trends of a Widespread Amphibian**
Blake R. Hossack, Michael J. Adams, Christopher A. Pearl, Kristine W. Wilson, Evelyn L. Bull, Kristin Lohr, Debra Patla, David S. Pilliod, Jason M. Jones, Kevin K. Wheeler, Samuel P. McKay, and Paul Stephen Corn
- 1421 **Demographic Evidence of Illegal Harvesting of an Endangered Asian Turtle**
Yik-Hei Sung, Nancy E. Karraker, and Billy C. H. Hau
- 1429 **Effects of Pond Draining on Biodiversity and Water Quality of Farm Ponds**
Nisikawa Usio, Miho Imada, Megumi Nakagawa, Munemitsu Akasaka, and Noriko Takamura
- 1439 **Effect of Widespread Agricultural Chemical Use on Butterfly Diversity across Turkish Provinces**
Burak K. Pekin
- 1449 **Effects of Knowledge of an Endangered Species on Recreationists' Attitudes and Stated Behaviors and the Significance of Management Compliance for Ohlone Tiger Beetle Conservation**
Tara M. Cornelisse and Timothy P. Duane
- 1458 **Increase in Quantity and Quality of Suitable Areas for Invasive Species as Climate Changes**
Cleo Bertelsmeier, Gloria M. Luque, and Franck Courchamp
- 1468 **Effects of Growth Form and Functional Traits on Response of Woody Plants to Clearing and Fragmentation of Subtropical Rainforest**
R. M. Kooyman, A. E. Zanne, R. V. Gallagher, W. Cornwell, M. Rossetto, P. O'Connor, E. A. Parkes, C. F. Catterall, S. W. Laffan, and C. H. Lusk

Research Note

- 1478 **Refuge-Effect Hypothesis and the Demise of the Dodo**
David L. Roberts

Comments

- 1481 **Historians are from Venus, Ecologists are from Mars**
Simon Pooley
- 1484 **Grappling with Interdisciplinary Research: Response to Pooley**
Péter Szabó and Radim Hédli

Diversity

- 1487 **Social Research and Biodiversity Conservation**
Chris Sandbrook, William M. Adams, Bram Büscher, and Bhaskar Vira

Book Reviews

- 1491 **Beyond Borders: The Shady Past and Uncertain Future of (Trans) National Parks**, Jonathan Clapperton ■ Noted with Interest