



Smithsonian  
National Museum of Natural History

## BIOLOGICAL CONSERVATION NEWSLETTER

Plant Conservation Unit  
Department of Botany

No. 380

<http://botany.si.edu/pubs/bcn/>

August 2016

### CAUSE FOR HOPE: SECONDARY TROPICAL FORESTS QUICKLY PUT ON WEIGHT

*-Adapted from STRI News*

How fast tropical forests recover after deforestation has major consequences for climate change mitigation. A team including Smithsonian scientists discovered that some secondary tropical forests recover biomass quickly: half of the forests in the study attained 90 percent of old-growth forest levels in 66 years or less. The study was published in the journal *Nature*. Conservation planners can use their resulting biomass-recovery map for Latin America to prioritize conservation efforts.

“Regenerating secondary forests could play a critical role in carbon sequestration and climate change mitigation” said Daisy Dent, a research associate at the Smithsonian Tropical Research Institute (STRI) in Panama and a lecturer at the University of Stirling. “However, previous studies have tended to focus on single sites. This study brings together data from many sites that span the Neotropics. We illustrate that secondary forests are highly productive and resilient.”

Less than half of the world’s tropical forests are primary or old-growth forests; the rest are growing back after logging or other disturbances. The new study focused on secondary forests growing back on land almost completely deforested for agriculture. Although such forests are known to accumulate carbon rapidly, how quickly they recover and restore the ecosystem services provided by old-growth forest was uncertain because of inconsistencies in the methods used in previous studies.

This study was unprecedented in scope: 45 sites in eight countries, 1,478 study plots and more than 168,000 trees. Sites covered the full latitudinal range of the tropics, from 20 degrees north in Mexico to 22 degrees south in Brazil, and extended across areas of high-to-low rainfall and low-to-high soil fertility. The extent of forest cover in the surrounding landscape (indicating the availability of tree seeds for regeneration) and the intensity of prior land use was also considered.

After 20 years of recovery, the average biomass in these

regenerating forests was calculated to be equivalent to a carbon uptake rate 11 times that of Amazonian old-growth forests, and more than twice that of selectively logged Amazonian forests in which reduced-impact logging techniques had been used. However, biomass accumulation rates differed widely across sites. Sites with higher rainfall had higher absolute rates of biomass accumulation. Soil fertility, local forest cover and prior land-use were not found to have an effect. However, higher soil fertility did improve the relative rate of biomass accumulation compared to old-growth forests in the same area.

The authors produced a map of the potential for biomass recovery and carbon sequestration across the New World tropics. Areas such as the dry forests of Mexico and north-eastern Brazil had low recovery rates, whereas the moister forests of Central America and large parts of Amazonia had high recovery rates. In moist forest areas, where potential for biomass accumulation is highest, restoration and reforestation may be the optimal land-use activities. Where the capacity of forest recovery is lower, such as seasonally dry forest, a higher emphasis should be placed on protection of existing forest to minimize forest loss.

“Collaborations like the one illustrated here by the 2ndFor Network, in which site-based monitoring and manipulations allow us to test mechanistic hypotheses related to forest development, and large-scale analysis across sites allow for robust synthesis, are critically important in the era of global change,” said Jefferson Hall, STRI staff scientist and director of the Agua Salud Project in the Panama Canal Watershed.

---

### CURRENT LITERATURE

- Abbas, S., Nichol, J.E., and Fischer, G.A. 2016. A 70-year perspective on tropical forest regeneration. *Sci. Total Environ.* 544:544-552.
- Abdullah, M.M., Feagin, R.A., Musawi, L., Whisenant, S., and Popescu, S. 2016. The use of remote sensing to develop a site history for restoration planning in an arid landscape. *Restor. Ecol.* 24(1):91-99.
- Abelson, A., Halpern, B.S., Reed, D.C., Orth, R.J., Kendrick, G.A., Beck, M.W., Belmaker, J., Krause, G., Edgar, G.J., Airoidi, L., Brokovich, E., France, R., Shashar, N., De Blaeij, A., Stambler,

- N., Salameh, P., Shechter, M., and Nelson, P.A. 2016. Upgrading marine ecosystem restoration using ecological-social concepts. *BioScience* 66(2):156-163.
- Affonso, I.D., Azevedo, R.F., dos Santos, N.L.C., Dias, R.M., Agostinho, A.A., and Gomes, L.C. 2015. Pulling the plug: strategies to preclude expansion of dams in Brazilian rivers with high-priority for conservation. *Nat. Conservacao* 13(2):199-203.
- Agostini, M.G., and Burrowes, P.A. 2015. Infection patterns of the chytrid fungus, *Batrachochytrium dendrobatidis*, on anuran assemblages in agro-ecosystems from Buenos Aires Province, Argentina. *Phyllomedusa* 14(2):113-126.
- Akmentins, M.S., Velasco, M.A., Kass, C.A., and Kacoliris, F.P. 2015. A new threat for the endangered frog *Atelognathus reverberii* (Anura: Batrachylidae) in Argentinean Patagonia. *Phyllomedusa* 14(1):63-66.
- Albers, H.J., Busby, G.M., Hamaide, B., Ando, A.W., and Polasky, S. 2016. Spatially-correlated risk in nature reserve site selection. *PLoS ONE* 11(1):e0146023.
- Altamirano, A., Valladares, G., Kuzmanich, N., and Salvo, A. 2016. Galling insects in a fragmented forest: incidence of habitat loss, edge effects and plant availability. *J. Insect Conserv.* 20(1):119-127.
- Alvarado, S.T., Buisson, E., Carrière, S.M., Rabarison, H., Rajeriarison, C., Andrianjafy, M., Randriatsivory, F.M., Rasoafaranaivo, M.H., Raharimampionona, J., Lowry, P.P., and Birkinshaw, C. 2015. Achieving sustainable conservation in Madagascar: The case of the newly established Ibity Mountain Protected Area. *Trop. Conserv. Sci.* 8(2):367-395.
- Alves, C., Vieira, C., Sérgio, C., Garcia, C., Stow, S., and Hespanhol, H. 2016. Selecting important areas for bryophyte conservation: is the higher taxa approach an effective method? *J. Nature Conserv.* 29:105-113.
- Amaya-Villarreal, A.M., Estrada, A., and Vargas-Ramírez, N. 2015. Use of wild foods during the rainy season by a reintroduced population of scarlet macaws (*Ara macao cyanoptera*) in Palenque, Mexico. *Trop. Conserv. Sci.* 8(2):455-478.
- Amtstaetter, F., O'Connor, J., and Pickworth, A. 2016. Environmental flow releases trigger spawning migrations by Australian grayling *Prototroctes maraena*, a threatened, diadromous fish. *Aquat. Conserv.* 26(1):35-43.
- Ancillotto, L., Strubbe, D., Menchetti, M., and Mori, E. 2016. An overlooked invader? Ecological niche, invasion success and range dynamics of the Alexandrine parakeet in the invaded range. *Biol. Invasions* 18(2):583-595.
- Andrade, B.O., Koch, C., Boldrini, I.I., Vélez-Martin, E., Hasenack, H., Hermann, J.M., Kollmann, J., Pillar, V.D., and Overbeck, G.E. 2015. Grassland degradation and restoration: a conceptual framework of stages and thresholds illustrated by southern Brazilian grasslands. *Nat. Conservacao* 13(2):95-104.
- Annorbah, N.N.D., Collar, N.J., and Marsden, S.J. 2016. Trade and habitat change virtually eliminate the Grey Parrot *Psittacus erithacus* from Ghana. *Ibis* 158(1):82-91.
- Applegate, R.D. 2015. The importance of data management in wildlife conservation. *Wildlife Soc. Bull.* 39(3):449-450.
- Arnold, M., Teagle, H., Brown, M.P., and Smale, D.A. 2016. The structure of biogenic habitat and epibiotic assemblages associated with the global invasive kelp *Undaria pinnatifida* in comparison to native macroalgae. *Biol. Invasions* 18(3):661-676.
- Arregoitia, L.D.V. 2016. Biases, gaps, and opportunities in mammalian extinction risk research. *Mamm. Rev.* 46(1):17-29.
- Arriagada, R.A., Echeverria, C.M., and Moya, D.E. 2016. Creating protected areas on public lands: is there room for additional conservation? *PLoS ONE* 11(2):e0148094.
- Arts, K., Fischer, A., and van der Wal, R. 2016. Boundaries of the wolf and the wild: a conceptual examination of the relationship between rewilding and animal reintroduction. *Restor. Ecol.* 24(1):27-34.
- Aryal, A., Dhakal, M., Panthi, S., Yadav, B.P., Shrestha, L.B., Benicini, R., Raubenheimer, D., and Ji, W.H. 2015. Is trophy hunting of bharal (blue sheep) and Himalayan tahr contributing to their conservation in Nepal? *Hystrix* 26(2):85-88.
- Bacela-Spychalska, K. 2016. Attachment ability of two invasive amphipod species may promote their spread by overland transport. *Aquat. Conserv.* 26(1):196-201.
- Backs, J.R., Terry, M., and Ashley, M.V. 2016. Using genetic analysis to evaluate hybridization as a conservation concern for the threatened species *Quercus hinckleyi* C.H. Muller (Fagaceae). *Int. J. Plant Sci.* 177(2):122-131.
- Baisre, J.A. 2016. The uncritical use of anecdotes in marine historical ecology: response to McClenachan et al. *Conserv. Biol.* 30(1):228-229.
- Bănăduc, D., Rey, S., Trichkova, T., Lenhardt, M., and Curtean-Bănăduc, A. 2016. The Lower Danube River-Danube Delta-North West Black Sea: A pivotal area of major interest for the past, present and future of its fish fauna - A short review. *Sci. Total Environ.* 545:137-151.
- Banerjee, A., and Bandopadhyay, R. 2016. Biodiversity hotspot of Bhutan and its sustainability. *Curr. Sci.* 110(4):521-527.
- Barak, R.S., Fant, J.B., Kramer, A.T., and Skogen, K.A. 2015. Assessing the value of potential "native winners" for restoration of cheat-grass-invaded habitat. *West. N. Am. Naturalist* 75(1):58-69.
- Barbosa, J.M., Asner, G.P., Martin, R.E., Baldeck, C.A., Hughes, F., and Johnson, T. 2016. Determining subcanopy *Psidium cattleianum* invasion in Hawaiian forests using imaging spectroscopy. *Remote Sens.* 8(1):33.
- Barker, N.K.S., Fontaine, P.C., Cumming, S.G., Stralberg, D., Westwood, A., Bayne, E.M., Sólomos, P., Schmiegelow, F.K.A., Song, S.J., and Rugg, D.J. 2015. Ecological monitoring through harmonizing existing data: lessons from the Boreal Avian Modelling Project. *Wildlife Soc. Bull.* 39(3):480-487.
- Barrera-Salazar, A., Mandujano, S., Espino-Barros, O.A.V., and Jiménez-García, D. 2015. Classification of vegetation types in the habitat of white-tailed deer in a location of the Tehuacán-Cuicatlán Biosphere Reserve, Mexico. *Trop. Conserv. Sci.* 8(2):547-563.
- Bassett, I.E., Cook, J., Buchanan, F., and Russell, J.C. 2016. Treasure Islands: biosecurity in the Hauraki Gulf Marine Park. *New Zeal. J. Ecol.* 40(2):250-266.
- Baude, M., Kunin, W.E., Boatman, N.D., Conyers, S., Davies, N., Gillespie, M.A.K., Morton, R.D., Smart, S.M., and Memmott, J. 2016. Historical nectar assessment reveals the fall and rise of floral resources in Britain. *Nature* 530(7588):85-88.
- Bauer, J.T., and Reynolds, H.L. 2016. Restoring native understory to a woodland invaded by *Euonymus fortunei*: multiple factors affect success. *Restor. Ecol.* 24(1):45-52.
- Bawri, A., Gajurel, P.R., and Khan, M.L. 2015. Rediscovery of *Primula polonensis*. *Kew Bull.* 70(4):56.
- Becker, C.G., Rodriguez, D., Longo, A.V., Toledo, L.F., Lamber-

- tini, C., Leite, D.S., Haddad, C.F.B., and Zamudio, K.R. 2016. Deforestation, host community structure, and amphibian disease risk. *Basic Appl. Ecol.* 17(1):72-80.
- Beckmann, M., Bruelheide, H., and Erfmeier, A. 2016. Reduced tolerance to simulated herbivory on clonal organs in alien genotypes: a multi-species experiment with native and introduced origins. *Biol. Invasions* 18(2):549-563.
- Beentje, H., and Crawford, F.M. 2015. Doubtful no more: the case of *Strophanthus angusii* F. White (Apocynaceae). *Kew Bull.* 70(4):54.
- Bellard, C., and Jeschke, J.M. 2016. A spatial mismatch between invader impacts and research publications. *Conserv. Biol.* 30(1):230-232.
- Bellard, C., Leclerc, C., Hoffmann, B.D., and Courchamp, F. 2016. Vulnerability to climate change and sea-level rise of the 35th biodiversity hotspot, the Forests of East Australia. *Environ. Conserv.* 43(1):79-89.
- Bertacchi, M.I.F., Amazonas, N.T., Brancalion, P.H.S., Brondani, G.E., de Oliveira, A.C.S., de Pascoa, M.A.R., and Rodrigues, R.R. 2016. Establishment of tree seedlings in the understory of restoration plantations: natural regeneration and enrichment plantings. *Restor. Ecol.* 24(1):100-108.
- Best, A.M., Johnston, C.E., and O'Neil, P.E. 2016. Pattern of invasion by Weed Shiner (*Notropis texanus*), a nonindigenous cyprinid in the Bear Creek system (Tennessee River drainage), USA. *Biol. Invasions* 18(2):395-410.
- Bhatt, J.P., and Pandit, M.K. 2016. Endangered Golden mahseer *Tor putitora* Hamilton: a review of natural history. *Rev. Fish Biol. Fisher.* 26(1):25-38.
- Bilgili, B., Sağiroğlu, M., Şeker, M., and Duman, H. 2016. *Dichoropetalum alanyensis* (Apiaceae), a new species from South Anatolia, Turkey. *Turk. J. Bot.* 40(2):201-208.
- Binzet, R. 2016. A new species of *Onosma* L. (Boraginaceae) from Anatolia. *Turk. J. Bot.* 40(2):194-200.
- Blandón, A.C., Perelman, S.B., Ramírez, M., López, A., Javier, O., and Robbins, C.S. 2016. Temporal bird community dynamics are strongly affected by landscape fragmentation in a Central American tropical forest region. *Biodivers. Conserv.* 25(2):311-330.
- Bloch, C.P., and Klingbeil, B.T. 2016. Anthropogenic factors and habitat complexity influence biodiversity but wave exposure drives species turnover of a subtropical rocky inter-tidal meta-community. *Mar. Ecol.-Evol. Persp.* 37(1):64-76.
- Boch, S., Prati, D., Schöning, I., and Fischer, M. 2016. Lichen species richness is highest in non-intensively used grasslands promoting suitable microhabitats and low vascular plant competition. *Biodivers. Conserv.* 25(2):225-238.
- Boetzi, F.A., Schneider, G., and Krauss, J. 2016. Asymmetric carabid beetle spillover between calcareous grasslands and coniferous forests. *J. Insect Conserv.* 20(1):49-57.
- Bombaci, S.P., Farr, C.M., Gallo, H.T., Mangan, A.M., Stinson, L.T., Kaushik, M., and Pejchar, L. 2016. Using Twitter to communicate conservation science from a professional conference. *Conserv. Biol.* 30(1):216-225.
- Boonsuk, B., Chantaranothai, P., and Hodkinson, T.R. 2016. A taxonomic revision of the genus *Digitaria* (Panicoideae: Poaceae) in mainland Southeast Asia. *Phytotaxa* 246(4):248-280.
- Borroto-Páez, R., Bosch, R.A., Fabres, B.A., and García, O.A. 2015. Introduced amphibians and reptiles in the Cuban archipelago. *Herpetol. Conserv. Biol.* 10(3):985-1012.
- Bouget, C., and Parmain, G. 2016. Effects of landscape design of forest reserves on Saproxylic beetle diversity. *Conserv. Biol.* 30(1):92-102.
- Braby, M.F., and Williams, M.R. 2016. Biosystematics and conservation biology: critical scientific disciplines for the management of insect biological diversity. *Austral Entomol.* 55(1):1-17.
- Brancalion, P.H.S., and Holl, K.D. 2016. Functional composition trajectory: a resolution to the debate between Suganuma, Durigan, and Reid. *Restor. Ecol.* 24(1):1-3.
- Bridge, T.C.L., Grech, A.M., and Pressey, R.L. 2016. Factors influencing incidental representation of previously unknown conservation features in marine protected areas. *Conserv. Biol.* 30(1):154-165.
- Brown, L.M., and Crone, E.E. 2016. Minimum area requirements for an at-risk butterfly based on movement and demography. *Conserv. Biol.* 30(1):103-112.
- Brown, L.R., Komoroske, L.M., Wagner, R.W., Morgan-King, T., May, J.T., Connon, R.E., and Fanguie, N.A. 2016. Coupled downscaled climate models and ecophysiological metrics forecast habitat compression for an endangered estuarine fish. *PLoS ONE* 11(1):e0146724.
- Brusch, G.A., Taylor, E.N., and Whitfield, S.M. 2016. Turn up the heat: thermal tolerances of lizards at La Selva, Costa Rica. *Oecologia* 180(2):325-334.
- Buczowski, G. 2016. The Trojan horse approach for managing invasive ants: a study with Asian needle ants, *Pachycondyla chinensis*. *Biol. Invasions* 18(2):507-515.
- Büneker, H.M., Soares, K.P., and De Assis, L.C. 2016. The *Dyckia sordida* complex (Bromeliaceae, Pitcairnioideae) and a new species from Minas Gerais, Brazil. *Phytotaxa* 244(1):57-68.
- Burkart, S., Gugerli, F., Senn, J., Kuehn, R., and Bolliger, J. 2016. Evaluating the functionality of expert-assessed wildlife corridors with genetic data from roe deer. *Basic Appl. Ecol.* 17(1):52-60.
- Burman, J., Westerberg, L., Ostrow, S., Ryrholm, N., Bergman, K.O., Winde, I., Nyabuga, F.N., Larsson, M.C., and Milberg, P. 2016. Revealing hidden species distribution with pheromones: the case of *Synanthedon vespiformis* (Lepidoptera: Sesiidae) in Sweden. *J. Insect Conserv.* 20(1):11-21.
- Burns, P.A., Rowe, K.M.C., Holmes, B.P., and Rowe, K.C. 2015. Historical resurveys reveal persistence of smoky mouse (*Pseudomys fumeus*) populations over the long-term and through the short-term impacts of fire. *Wildlife Res.* 42(8):668-677.
- Byatt, M.A., Chapman, N.C., Latty, T., and Oldroyd, B.P. 2016. The genetic consequences of the anthropogenic movement of social bees. *Insect. Soc.* 63(1):15-24.
- Cabra-Rivas, I., Saldaña, A., Castro-Díez, P., and Gallien, L. 2016. A multi-scale approach to identify invasion drivers and invaders' future dynamics. *Biol. Invasions* 18(2):411-426.
- Campos-Silva, J.V., da Fonseca, S.F., and Peres, C. 2015. Policy reversals do not bode well for conservation in Brazilian Amazonia. *Nat. Conservacao* 13(2):193-195.
- Carbonell, J.A., Millán, A., Green, A.J., Céspedes, V., Coccia, C., and Velasco, J. 2016. What traits underpin the successful establishment and spread of the invasive water bug *Trichocorixa verticalis verticalis*? *Hydrobiologia* 768(1):273-286.
- Carbonero, J., García-Díaz, P., Ávila, C., Arribas, O., and Lizana, M. 2016. Distribution, habitat characterization and conservation status of *Iberolacerta martinezricai* (ARRIBAS, 1996), in

- the Sierra de Francia, Salamanca, Spain. *Herpetozoa* 28(3-4): 149-165.
- Carboni, M., Münkemüller, T., Lavergne, S., Choler, P., Borgy, B., Violle, C., Essl, F., Roquet, C., Munoz, F., DivGrass Consortium, and Thuiller, W. 2016. What it takes to invade grassland ecosystems: traits, introduction history and filtering processes. *Ecol. Lett.* 19(3):219-229.
- Cardoso, R.S., Barboza, C.A.M., Skinner, V.B., and Cabrini, T.M.B. 2016. Crustaceans as ecological indicators of metropolitan sandy beaches health. *Ecol. Indic.* 62:154-162.
- Carlsson, S., Bergman, K.O., Jansson, N., Ranius, T., and Milberg, P. 2016. Boxing for biodiversity: evaluation of an artificially created decaying wood habitat. *Biodivers. Conserv.* 25(2):393-405.
- Carman, V.G., Bruno, I., Maxwell, S., Álvarez, K., Albareda, D., Acha, E.M., and Campagna, C. 2016. Habitat use, site fidelity and conservation opportunities for juvenile loggerhead sea turtles in the Rio de la Plata, Argentina. *Mar. Biol.* 163(1):20.
- Carneiro, L.R.D., Lima, A.P., Machado, R.B., and Magnusson, W.E. 2016. Limitations to the use of species-distribution models for environmental-impact assessments in the Amazon. *PLoS ONE* 11(1):e0146543.
- Carvalho, A.L.G. 2016. Three new species of the *Tropidurus spinulosus* group (Squamata: Tropiduridae) from Eastern Paraguay. *Am. Mus. Novit.* 3853:1-44.
- Case, E.J., Harrison, S., and Cornell, H.V. 2016. After an invasion: understanding variation in grassland community recovery following removal of a high-impact invader. *Biol. Invasions* 18(2):371-380.
- Casotti, C.G., Kiffer, W.P., Costa, L.C., Rangel, J.V., Casagrande, L.C., and Moretti, M.S. 2015. Assessing the importance of riparian zones conservation for leaf decomposition in streams. *Nat. Conservacao* 13(2):178-182.
- Castilla, A.R., Pope, N., and Jha, S. 2016. Positive density-dependent reproduction regulated by local kinship and size in an understorey tropical tree. *Ann. Botany* 117(2):319-329.
- Castro, A., and Espinosa, C.I. 2015. Seasonal diversity of butterflies and its relationship with woody-plant resources availability in an Ecuadorian tropical dry forest. *Trop. Conserv. Sci.* 8(2):333-351.
- Catalano, A.S., and Knight, A.T. 2016. Does procrastination promote failure in conservation of extremely small populations? A response to Meek. *Biol. Conserv.* 194:217-217.
- Cavada, N., Barelli, C., Ciolli, M., and Rovero, F. 2016. Primates in human-modified and fragmented landscapes: the conservation relevance of modelling habitat and disturbance factors in density estimation. *PLoS ONE* 11(2):e0148289.
- Chagas, A.T.D., da Costa, M.A., Martins, A.P.V., Resende, L.C., and Kalapothakis, E. 2015. Illegal hunting and fishing in Brazil: a study based on data provided by environmental military police. *Nat. Conservacao* 13(2):183-189.
- Chan, K.M.A., Balvanera, P., Benessaiah, K., Chapman, M., Díaz, S., Gómez-Baggethun, E., Gould, R., Hannahs, N., Jax, K., Klain, S., Luck, G.W., Martín-López, B., Muraca, B., Norton, B., Ott, K., Pascual, U., Satterfield, T., Tadaki, M., Taggart, J., and Turner, N. 2016. Why protect nature? Rethinking values and the environment. *Proc. Natl. Acad. Sci. USA* 113(6):1462-1465.
- Chaplin-Kramer, R., Jonell, M., Guerry, A., Lambin, E.F., Morgan, A.J., Pennington, D., Smith, N., Franch, J.A., and Polasky, S. 2015. Ecosystem service information to benefit sustainability standards for commodity supply chains. *Year Ecol. Conserv. Biol.* 1355:77-97.
- Chen, H.L., and Koprowski, J.L. 2016. Differential effects of roads and traffic on space use and movements of native forest-dependent and introduced edge-tolerant species. *PLoS ONE* 11(1):e0148121.
- Chiou, C.R., Chen, Y.J., Wang, H.H., and Grant, W.E. 2016. Predicted range expansion of the invasive plant *Leucaena leucocephala* in the Hengchun peninsula, Taiwan. *Biol. Invasions* 18(2):381-394.
- Chisholm, R.A., Wijedasa, L.S., and Swinfield, T. 2016. The need for long-term remedies for Indonesia's forest fires. *Conserv. Biol.* 30(1):5-6.
- Chollett, I., Box, S.J., and Mumby, P.J. 2016. Quantifying the squeezing or stretching of fisheries as they adapt to displacement by marine reserves. *Conserv. Biol.* 30(1):166-175.
- Chuang, A., and Peterson, C.R. 2016. Expanding population edges: theories, traits, and trade-offs. *Global Change Biol.* 22(2):494-512.
- Chucholl, C., and Schrimpf, A. 2016. The decline of endangered stone crayfish (*Austropotamobius torrentium*) in southern Germany is related to the spread of invasive alien species and land-use change. *Aquat. Conserv.* 26(1):44-56.
- Cimon-Morin, J., Darveau, M., and Poulin, M. 2016. Site complementarity between biodiversity and ecosystem services in conservation planning of sparsely-populated regions. *Environ. Conserv.* 43(1):56-68.
- Clark, J.L., Nee, M., Bohs, L., and Knapp, S. 2015. A revision of *Solanum* section *Aculeigerum* (the *Solanum wendlandii* group, Solanaceae). *Syst. Bot.* 40(4):1102-1136.
- Cooke, S.L. 2016. Anticipating the spread and ecological effects of invasive bigheaded carps (*Hypophthalmichthys* spp.) in North America: a review of modeling and other predictive studies. *Biol. Invasions* 18(2):315-344.
- Corliss, C.T., and Sultan, S.E. 2016. Evolutionary potential for increased invasiveness: high-performance *Polygonum cespitosum* genotypes are competitively superior in full sun. *Am. J. Bot.* 103(2):348-354.
- Côté, I.M., Darling, E.S., and Brown, C.J. 2016. Interactions among ecosystem stressors and their importance in conservation. *Proc. Roy. Soc. B* 283(1824):20152592.
- Coulter, A.A., Bailey, E.J., Keller, D., and Goforth, R.R. 2016. Invasive Silver Carp movement patterns in the predominantly free-flowing Wabash River (Indiana, USA). *Biol. Invasions* 18(2):471-485.
- Croll, D.A., Newton, K.M., McKown, M., Holmes, N., Williams, J.C., Young, H.S., Buckelew, S., Wolf, C.A., Howald, G., Bock, M.F., Curl, J.A., and Tershy, B.R. 2016. Passive recovery of an island bird community after rodent eradication. *Biol. Invasions* 18(3):703-715.
- Cuesta, J.A., Almón, B., Pérez-Dieste, J., Trigo, J.E., and Bañón, R. 2016. Role of ships' hull fouling and tropicalization process on European carcinofauna: new records in Galician waters (NW Spain). *Biol. Invasions* 18(3):619-630.
- D'Anastasi, B.R., van Herwerden, L., Hobbs, J.A., Simpfendorfer, C.A., and Lukoschek, V. 2016. New range and habitat records for threatened Australian sea snakes raise challenges for conservation. *Biol. Conserv.* 194:66-70.
- da Mata, R.A., Roque, F., and Tidon, R. 2015. Measuring the vari-

- ability of the drosophilid assemblages associated with forests of the Brazilian savanna across temporal and spatial scales. *Nat. Conservacao* 13(2):166-170.
- da Silva, C.R.B., Groom, S.V.C., Stevens, M.I., and Schwarz, M.P. 2016. Current status of the introduced allodapine bee *Braunsapis puangensis* (Hymenoptera: Apidae) in Fiji. *Austral Entomol.* 55(1):43-48.
- da Silva, M.J., Alonso, A.A., and Sodré, R.C. 2016. *Manihot pachycaulis* sp. nov. (Euphorbiaceae) from the Brazilian Cerrado. *Nord. J. Bot.* 34(1):60-65.
- Dao, T.H.H., and Hölscher, D. 2015. Red-listed tree species abundance in montane forest areas with differing levels of statutory protection in north-western Vietnam. *Trop. Conserv. Sci.* 8(2):479-490.
- Darbyshire, I. 2015. The genus *Hypoestes* (Acanthaceae) in Angola. *Kew Bull.* 70(4):44.
- Dawson, J., Patel, F., Griffiths, R.A., and Young, R.P. 2016. Assessing the global zoo response to the amphibian crisis through 20-year trends in captive collections. *Conserv. Biol.* 30(1):82-91.
- de Albuquerque, F.S., Benito, B., Beier, P., Assunção-Albuquerque, M.J., and Cayuela, L. 2015. Supporting underrepresented forests in Mesoamerica. *Nat. Conservacao* 13(2):152-158.
- de Almeida, R.F., and Amorim, A.M. 2015. *Stigmaphyllon mikanifolium* (Malpighiaceae), a new species from Espírito Santo State, Brazil. *Kew Bull.* 70(4):47.
- De Busschere, C., Courant, J., Herrel, A., Rebelo, R., Rödder, D., Measey, G.J., and Backeljau, T. 2016. Unequal contribution of native South African phylogeographic lineages to the invasion of the African clawed frog, *Xenopus laevis*, in Europe. *PeerJ* 4:e1659.
- Derugin, V.V., Silveira, J.G., Golet, G.H., and LeBuhn, G. 2016. Response of medium- and large-sized terrestrial fauna to corridor restoration along the middle Sacramento River. *Restor. Ecol.* 24(1):128-136.
- Di Marco, M., Butchart, S.H.M., Visconti, P., Buchanan, G.M., Ficetola, G.F., and Rondinini, C. 2016. Synergies and trade-offs in achieving global biodiversity targets. *Conserv. Biol.* 30(1):189-195.
- Di Minin, E., Leader-Williams, N., and Bradshaw, C.J.A. 2016. Banning trophy hunting will exacerbate biodiversity loss. *Trends Ecol. Evol.* 31(2):99-102.
- Dias, T.C.A.D., da Cunha, A.C., and da Silva, J.M.C. 2016. Return on investment of the ecological infrastructure in a new forest frontier in Brazilian Amazonia. *Biol. Conserv.* 194:184-193.
- Dickens, S.J.M., Mangla, S., Preston, K.L., and Suding, K.N. 2016. Embracing variability: environmental dependence and plant community context in ecological restoration. *Restor. Ecol.* 24(1):119-127.
- Dickinson, Y., Pelz, K., Giles, E., and Howie, J. 2016. Have we been successful? Monitoring horizontal forest complexity for forest restoration projects. *Restor. Ecol.* 24(1):8-17.
- Díez-del-Molino, D., Araguas, R.M., Vera, M., Vidal, O., Sanz, N., and García-Marín, J.L. 2016. Temporal genetic dynamics among mosquitofish (*Gambusia holbrooki*) populations in invaded watersheds. *Biol. Invasions* 18(3):841-855.
- Diniz, M.F., and Brito, D. 2015. Protected areas effectiveness in maintaining viable giant anteater (*Myrmecophaga tridactyla*) populations in an agricultural frontier. *Nat. Conservacao* 13(2):145-151.
- Dittman, D.E., Chalupnicki, M.A., Johnson, J.H., and Snyder, J. 2015. Reintroduction of lake sturgeon (*Acipenser fulvescens*) into the St. Regis River, NY: post-release assessment of habitat use and growth. *Northeastern Nat.* 22(4):704-716.
- Dodd, A.J., McCarthy, M.A., Ainsworth, N., and Burgman, M.A. 2016. Identifying hotspots of alien plant naturalisation in Australia: approaches and predictions. *Biol. Invasions* 18(3):631-645.
- Dougill, A.J., Akanyang, L., Perkins, J.S., Eckardt, F.D., Stringer, L.C., Favretto, N., Athlapheng, J., and Mulale, K. 2016. Land use, rangeland degradation and ecological changes in the southern Kalahari, Botswana. *Afr. J. Ecol.* 54(1):59-67.
- Drinkell, C., and Utteridge, T.M.A. 2015. A revision of the genus *Systellantha* B. C. Stone. Studies in Malaysian Myrsinaceae IV. *Kew Bull.* 70(4):50.
- Driscoll, D.A., Bode, M., Bradstock, R.A., Keith, D.A., Penman, T.D., and Price, O.F. 2016. Resolving future fire management conflicts using multicriteria decision making. *Conserv. Biol.* 30(1):196-205.
- Duffy, R., St John, F.A.V., Buscher, B., and Brockington, D. 2016. Toward a new understanding of the links between poverty and illegal wildlife hunting. *Conserv. Biol.* 30(1):14-22.
- Dulvy, N.K., Davidson, L.N.K., Kyne, P.M., Simpfendorfer, C.A., Harrison, L.R., Carlson, J.K., and Fordham, S.V. 2016. Ghosts of the coast: global extinction risk and conservation of sawfishes. *Aquat. Conserv.* 26(1):134-153.
- Dupuis-Desormeaux, M., Davidson, Z., Pratt, L., Mwololo, M., and MacDonald, S.E. 2016. Testing the effects of perimeter fencing and elephant exclosures on lion predation patterns in a Kenyan wildlife conservancy. *PeerJ* 4:e1681.
- Dutta, K., Reddy, C.S., Sharma, S., and Jha, C.S. 2016. Quantification and monitoring of forest cover changes in Agasthyamalai Biosphere Reserve, Western Ghats, India (1920-2012). *Curr. Sci.* 110(4):508-520.
- Eastwood, A., Brooker, R., Irvine, R.J., Artz, R.R.E., Norton, L.R., Bullock, J.M., Ross, L., Fielding, D., Ramsay, S., Roberts, J., Anderson, W., Dugan, D., Cooksley, S., and Pakeman, R.J. 2016. Does nature conservation enhance ecosystem services delivery? *Ecosyst. Serv.* 17:152-162.
- Eastwood, E.K., López, E.H., and Drew, J.A. 2016. Population connectivity measures of fishery-targeted coral reef species to inform marine reserve network design in Fiji. *Sci. Rep.* 6:19318.
- Edwards, T., Karl, A.E., Vaughn, M., Rosen, P.C., Torres, C.M., and Murphy, R.W. 2016. The desert tortoise trichotomy: Mexico hosts a third, new sister-species of tortoise in the *Gopherus morafkai*-*G. agassizii* group. *ZooKeys* 562:131-158.
- Ely, C.V., and Boldrini, I.I. 2015. A new threatened species of *Hypericum* from the south Brazilian Pampa biome. *Syst. Bot.* 40(4):989-994.
- Emam, T. 2016. Local soil, but not commercial AMF inoculum, increases native and non-native grass growth at a mine restoration site. *Restor. Ecol.* 24(1):35-44.
- Engelkes, T., Meisner, A., Morrien, E., Kostenko, O., Van der Putten, W.H., and Macel, M. 2016. Herbivory and dominance shifts among exotic and congeneric native plant species during plant community establishment. *Oecologia* 180(2):507-517.
- Esteban, R., Verborgh, P., Gauffier, P., Giménez, J., Guinet, C., and de Stephanis, R. 2016. Dynamics of killer whale, bluefin tuna and human fisheries in the Strait of Gibraltar. *Biol. Conserv.* 194:31-38.

- Estes, J.A., Burdin, A., and Doak, D.F. 2016. Sea otters, kelp forests, and the extinction of Steller's sea cow. *Proc. Natl. Acad. Sci. USA* 113(4):880-885.
- Estrada, A., and Butler, R. 2015. Tropical conservation research in countries and regions. *Trop. Conserv. Sci.* 8(2):i-ii.
- Evans, S.M., Sinclair, E.A., Poore, A.G.B., Bain, K.F., and Vergés, A. 2016. Genotypic richness predicts phenotypic variation in an endangered clonal plant. *PeerJ* 4:e1633.
- Fan, M., Shibata, H., and Wang, Q. 2016. Optimal conservation planning of multiple hydrological ecosystem services under land use and climate changes in Teshio river watershed, northernmost of Japan. *Ecol. Indic.* 62:1-13.
- Felton, A., Gustafsson, L., Roberge, J.M., Ranius, T., Hjältén, J., Rudolphi, J., Lindbladh, M., Weslien, J., Rist, L., Brunet, J., and Felton, A.M. 2016. How climate change adaptation and mitigation strategies can threaten or enhance the biodiversity of production forests: insights from Sweden. *Biol. Conserv.* 194:11-20.
- Fialho, C., Banha, F., and Anastácio, P.M. 2016. Factors determining active dispersal capacity of adult Chinese mitten crab *Eriocheir sinensis* (Decapoda, Varunidae). *Hydrobiologia* 767(1):321-331.
- Fielder, H., Smith, C., Ford-Lloyd, B., and Maxted, N. 2016. Enhancing the conservation of crop wild relatives in Scotland. *J. Nature Conserv.* 29:51-61.
- Figueroa, L.L., and Bergey, E.A. 2015. Bumble bees (Hymenoptera: Apidae) of Oklahoma: past and present biodiversity. *J. Kansas Entomol. Soc.* 88(4):418-429.
- First, M.R., Robbins-Wamsley, S.H., Riley, S.C., and Drake, L.A. 2016. Towards minimizing transport of aquatic nuisance species in ballast water: do organisms in different size classes respond uniformly to biocidal treatment? *Biol. Invasions* 18(3):647-660.
- Fischer, C., and Wagner, C. 2016. Can agri-environmental schemes enhance non-target species? Effects of sown wildflower fields on the common hamster (*Cricetus cricetus*) at local and landscape scales. *Biol. Conserv.* 194:168-175.
- Fonge, A.B., Tabot, P.T., Mumbang, C., and Mange, C.A. 2016. Water quality and phytoplankton community structure in mangrove streams under different logging regimes in Cameroon. *Afr. J. Ecol.* 54(1):39-48.
- Forrest, M.J., Edwards, M.S., Rivera, R., Sjöberg, J.C., and Jaeger, J.R. 2015. High prevalence and seasonal persistence of amphibian chytrid fungus infections in the desert-dwelling Amargosa Toad, *Anaxyrus nelsoni*. *Herpetol. Conserv. Biol.* 10(3):917-925.
- Foster, S., Wiswedel, S., and Vincent, A. 2016. Opportunities and challenges for analysis of wildlife trade using CITES data - seahorses as a case study. *Aquat. Conserv.* 26(1):154-172.
- Fowler, J.F., Sieg, C.H., and Hedwall, S. 2015. Baselines to detect population stability of the threatened alpine plant *Packera franciscana* (Asteraceae). *West. N. Am. Naturalist* 75(1):70-77.
- Freeman, M.S., Beatty, G.E., Dick, J.T.A., Reid, N., and Provan, J. 2016. The paradox of invasion: Reeves' muntjac deer invade the British Isles from a limited number of founding females. *J. Zool.* 298(1):54-63.
- Fujita, M.S., Samejima, H., Haryadi, D.S., Muhammad, A., Irfham, M., and Shiodera, S. 2016. Low conservation value of converted habitat for avifauna in tropical peatland on Sumatra, Indonesia. *Ecol. Res.* 31(2):275-285.
- Gama, G.M., Malhado, A.C.M., Bragagnolo, C., Correia, R.A., and Ladle, R.J. 2016. Cultural viability of reintroducing the ecologically extinct Alagoas Curassow (*Pauxi mitu* Linnaeus, 1766) to Northeast Brazil. *J. Nature Conserv.* 29:25-32.
- Gane, J., and Burt, A. 2016. Longevity and survival of the Endangered Seychelles Magpie Robin *Copsychus sechellarum*. *Ostrich* 87(1):81-83.
- Gao, K., Li, X.S., Chen, F.Y., Guo, Z.Y., and Settele, J. 2016. Distribution and habitats of *Phengaris* (*Maculinea*) butterflies and population ecology of *Phengaris teleius* in China. *J. Insect Conserv.* 20(1):1-10.
- Gao, R.X., Su, Z.S., Yin, Y.B., Sun, L.N., and Li, S.Y. 2016. Germplasm, chemical constituents, biological activities, utilization, and control of Chinese tallow (*Triadica sebifera* (L.) Small). *Biol. Invasions* 18(3):809-829.
- Gaos, A.R., Lewison, R.L., Liles, M.J., Gadea, V., Altamirano, E., Henríquez, A.V., Torres, P., Urteaga, J., Vallejo, F., Baquero, A., LeMarie, C., Muñoz, J.P., Chaves, J.A., Hart, C.E., de Niz, A.P., Chácon, D., Fonseca, L., Otterstrom, S., Yañez, I.L., LaCasella, E.L., Frey, A., Jensen, M.P., and Dutton, P.H. 2016. Hawksbill turtle terra incognita: conservation genetics of eastern Pacific rookeries. *Ecol. Evol.* 6(4):1251-1264.
- García-Robledo, C., Kuprewicz, E.K., Staines, C.L., Erwin, T.L., and Kress, W.J. 2016. Limited tolerance by insects to high temperatures across tropical elevational gradients and the implications of global warming for extinction. *Proc. Natl. Acad. Sci. USA* 113(3):680-685.
- Gargan, L.M., Cornette, R., Yearsley, J.M., Montgomery, W.I., Paupério, J., Alves, P.C., Butler, F., Pascal, M., Tresset, A., Herrel, A., Lusby, J., Tosh, D.G., Searle, J.B., and McDevitt, A.D. 2016. Molecular and morphological insights into the origin of the invasive greater white-toothed shrew (*Crocidura russula*) in Ireland. *Biol. Invasions* 18(3):857-871.
- Garner, B.A., Hand, B.K., Amish, S.J., Bernatchez, L., Foster, J.T., Miller, K.M., Morin, P.A., Narum, S.R., O'Brien, S.J., Roffler, G., Templin, W.D., Sunnucks, P., Strait, J., Warheit, K.I., Seamons, T.R., Wenburg, J., Olsen, J., and Luikart, G. 2016. Genomics in conservation: case studies and bridging the gap between data and application. *Trends Ecol. Evol.* 31(2):81-83.
- Gastauer, M., Sobral, M.E.G., and Meira-Neto, J.A.A. 2015. Preservation of primary forest characteristics despite fragmentation and isolation in a forest remnant from Viçosa, MG, Brazil. *Rev. Arvore* 39(6):985-994.
- Gil, J., Labonne, J., and Caudron, A. 2016. Evaluation of strategies to conserve and restore intraspecific biodiversity of brown trout: outcomes from genetic monitoring in the French Alps. *Rev. Fish Biol. Fisher.* 26(1):1-11.
- Gilarranz, L.J., Mora, C., and Bascompte, J. 2016. Anthropogenic effects are associated with a lower persistence of marine food webs. *Nat. Commun.* 7:10737.
- Gilroy, J.J., Gill, J.A., Butchart, S.H.M., Jones, V.R., and Franco, A.M.A. 2016. Migratory diversity predicts population declines in birds. *Ecol. Lett.* 19(3):308-317.
- Giora, J., and Malabarba, L.R. 2016. Gymnotus refugio, a new and endangered species of electric fish of the *Gymnotus pantherinus* species-group from southern Brazil (Gymnotiformes: Gymnotidae). *Zootaxa* 4066(5):581-590.
- Giordano, A.J. 2016. Ecology and status of the jaguarundi *Puma yagouaroundi*: a synthesis of existing knowledge. *Mamm. Rev.* 46(1):30-43.
- Giraud, A.R., Nenda, S.J., Arzamendia, V., Bellini, G.P., and Fran-



- zoy, A. 2015. New data on distribution, morphology and conservation of *Micrurus silviae* (Serpentes: Elapidae), a poorly known threatened coral snake. *Rev. Mex. Biodivers.* 86(4):1041-1047.
- Gnanasekaran, G., Karuppusamy, S., and Murthy, G.V.S. 2016. *Andrographis megamalayana* (Andrographinae: Acanthaceae), a new species from the southern Western Ghats, India. *Phytotaxa* 244(1):89-95.
- Gohli, J., Selvarajah, T., Kirkendall, L.R., and Jordal, B.H. 2016. Globally distributed *Xyleborus* species reveal recurrent inter-continental dispersal in a landscape of ancient worldwide distributions. *BMC Evol. Biol.* 16:12.
- González, J.A. 2016. Brachyuran crabs (Crustacea: Decapoda) from the Canary Islands (eastern Atlantic): checklist, zoogeographic considerations and conservation. *Sci. Mar.* 80(1):89-102.
- Goulet, C., Litvaitis, J.A., and Marchand, M.N. 2015. Habitat associations of the eastern hognose snake at the northern edge of its geographic distribution: should a remnant population guide restoration? *Northeastern Nat.* 22(3):530-540.
- Gousskov, A., Reyes, M., Wirthner-Bitterlin, L., and Vorburger, C. 2016. Fish population genetic structure shaped by hydroelectric power plants in the upper Rhine catchment. *Evol. Appl.* 9(2):394-408.
- Govindarajan, A.F., and Carman, M.R. 2016. Possible cryptic invasion of the Western Pacific toxic population of the hydromedusa *Gonionemus vertens* (Cnidaria: Hydrozoa) in the North-western Atlantic Ocean. *Biol. Invasions* 18(2):463-469.
- Gray, C.L., Simmons, B.I., Fayle, T.M., Mann, D.J., and Slade, E.M. 2016. Are riparian forest reserves sources of invertebrate biodiversity spillover and associated ecosystem functions in oil palm landscapes? *Biol. Conserv.* 194:176-183.
- Grosser, S., Rawlence, N.J., Anderson, C.N.K., Smith, I.W.G., Scofield, R.P., and Waters, J.M. 2016. Invader or resident? Ancient-DNA reveals rapid species turnover in New Zealand little penguins. *Proc. Roy. Soc. B* 283(1824):20152879.
- Guan, L., Lei, J.L., Zuo, A.J., Zhang, H., Lei, G.C., and Wen, L. 2016. Optimizing the timing of water level recession for conservation of wintering geese in Dongting Lake, China. *Ecol. Eng.* 88:90-98.
- Güner, E.D., and Duman, H. 2016. A new species from Turkey, *Silene bilgilitii* (Caryophyllaceae). *Phytotaxa* 246(4):293-299.
- Gutiérrez-Rodríguez, J., and García-París, M. 2016. Rediscovery of the ghost bush-cricket *Roeseliana oporina* (Orthoptera: Tettigoniidae) in Central Spain. *J. Insect Conserv.* 20(1):149-154.
- Haavik, L.J., Yu, Q., Turgeon, J.J., and Allison, J.D. 2016. Horizontal transmission of a parasitic nematode from a non-native to a native woodwasp? *Biol. Invasions* 18(2):355-358.
- Hamilton, J.A., and Miller, J.M. 2016. Adaptive introgression as a resource for management and genetic conservation in a changing climate. *Conserv. Biol.* 30(1):33-41.
- Hamilton, S., and Baker, G.B. 2016. Current bycatch levels in Auckland Islands trawl fisheries unlikely to be driving New Zealand sea lion (*Phocarcos hookeri*) population decline. *Aquat. Conserv.* 26(1):121-133.
- Hare, J.A., Morrison, W.E., Nelson, M.W., Stachura, M.M., Teeters, E.J., Griffis, R.B., Alexander, M.A., Scott, J.D., Alade, L., Bell, R.J., Chute, A.S., Curti, K.L., Curtis, T.H., Kircheis, D., Kocik, J.F., Lucey, S.M., McCandless, C.T., Milke, L.M., Richardson, D.E., Robillard, E., Walsh, H.J., McManus, M.C., Marancik, K.E., and Griswold, C.A. 2016. A vulnerability assessment of fish and invertebrates to climate change on the Northeast US continental shelf. *PLoS ONE* 11(2):e0146756.
- Harebottle, D.M., and Underhill, L.G. 2016. Assessing the value of wetlands to waterbirds: exploring a population-based index at flyway and regional levels. *Ostrich* 87(1):7-21.
- Harper, G.A., and Rutherford, M. 2016. Home range and population density of black rats (*Rattus rattus*) on a seabird island: a case for a marine subsidised effect? *New Zeal. J. Ecol.* 40(2):219-228.
- Hassemer, G., Ferreira, J.P.R., Funez, L.A., and Medeiros, J.D. 2016. *Commelina catharinensis* (Commelinaceae): a narrow endemic and endangered new species from Santa Catarina, southern Brazil. *Phytotaxa* 246(1):49-60.
- Heckscher, C.M., and Lloyd, J.E. 2015. An isolated occurrence of *Pyrractomena ecostata* (LeConte) (Coleoptera: Lampyridae) in the mid-Atlantic with new records from New Jersey and Delaware. *Northeastern Nat.* 22(4):N35-N38.
- Heikkala, O., Martikainen, P., and Kouki, J. 2016. Decadal effects of emulating natural disturbances in forest management on saproxylic beetle assemblages. *Biol. Conserv.* 194:39-47.
- Hendricks, S.A., Clee, P.R.S., Harrigan, R.J., Pollinger, J.P., Freedman, A.H., Callas, R., Figura, P.J., and Wayne, R.K. 2016. Re-defining historical geographic range in species with sparse records: implications for the Mexican wolf reintroduction program. *Biol. Conserv.* 194:48-57.
- Herrando, S., Brotons, L., Anton, M., Páramo, F., Villero, D., Titeux, N., Quesada, J., and Stefanescu, C. 2016. Assessing impacts of land abandonment on Mediterranean biodiversity using indicators based on bird and butterfly monitoring data. *Environ. Conserv.* 43(1):69-78.
- Herrero, M.L., Torres, R.C., and Renison, D. 2016. Do wildfires promote woody species invasion in a fire-adapted ecosystem? Post-fire resprouting of native and non-native woody plants in central Argentina. *Environ. Manage.* 57(2):308-317.
- Hiller, T.L., Taylor, J.S., Lusk, J.J., Powell, L.A., and Tyre, A.J. 2015. Evidence that the Conservation Reserve Program slowed population declines of pheasants on a changing landscape in Nebraska, USA. *Wildlife Soc. Bull.* 39(3): 529-535.
- Hoffmann, H., Michalik, P., Görn, S., and Fischer, K. 2016. Effects of fen management and habitat parameters on staphylinid beetle (Coleoptera: Staphylinidae) assemblages in north-eastern Germany. *J. Insect Conserv.* 20(1):129-139.
- Hogberg, J., Treves, A., Shaw, B., and Naughton-Treves, L. 2016. Changes in attitudes toward wolves before and after an inaugural public hunting and trapping season: early evidence from Wisconsin's wolf range. *Environ. Conserv.* 43(1):45-55.
- Honorato, R., Crouzeilles, R., Ferreira, M.S., and Grelle, C.E.V. 2015. The effects of habitat availability and quality on small mammals abundance in the Brazilian Atlantic Forest. *Nat. Conservacao* 13(2):133-138.
- Horton, C.C., Peterson, T.R., Banerjee, P., and Peterson, M.J. 2016. Credibility and advocacy in conservation science. *Conserv. Biol.* 30(1):23-32.
- Hosner, P.A., Andersen, M.J., Robbins, M.B., Urbay-Tello, A., Cueto-Aparicio, L., Verde-Guerra, K., Sánchez-González, L.A., Navarro-Sigüenza, A.G., Boyd, R.L., Núñez, J., Tiravanti, J., Combe, M., Owens, H.L., and Peterson, A.T. 2015. Avifaunal surveys of the Upper Apurímac River Valley, Ayacucho and Cuzco Departments, Peru: new distributional records and biogeographic, taxonomic, and conservation implications. *Wilson J. Ornithol.* 127(4):563-581.

- Houghton, M., McQuillan, P.B., Bergstrom, D.M., Frost, L., van den Hoff, J., and Shaw, J. 2016. Pathways of alien invertebrate transfer to the Antarctic region. *Polar Biol.* 39(1):23-33.
- Hoveka, L.N., Bezeng, B.S., Yessoufou, K., Boatwright, J.S., and Van der Bank, M. 2016. Effects of climate change on the future distributions of the top five freshwater invasive plants in South Africa. *S. Afr. J. Bot.* 102:33-38.
- Hovick, T.J., Allred, B.W., McGranahan, D.A., Palmer, M.W., Elmore, R.D., and Fuhlendorf, S.D. 2016. Informing conservation by identifying range shift patterns across breeding habitats and migration strategies. *Biodivers. Conserv.* 25(2):345-356.
- Howe, A.G., Ravn, H.P., Pipper, C.B., and Aebi, A. 2016. Potential for exploitative competition, not intraguild predation, between invasive harlequin ladybirds and flowerbugs in urban parks. *Biol. Invasions* 18(2):517-532.
- Howland, B.W.A., Stojanovic, D., Gordon, I.J., Radford, J., Manning, A.D., and Lindenmayer, D.B. 2016. Birds of a feather flock together: using trait-groups to understand the effect of macropod grazing on birds in grassy habitats. *Biol. Conserv.* 194:89-99.
- Huang, D.W., Hoeksema, B.W., Affendi, Y.A., Ang, P.O., Chen, C.L.A., Huang, H., Lane, D.J.W., Licuanan, W.Y., Vibol, O., Vo, S.T., Yeemin, T., and Chou, L.M. 2016. Conservation of reef corals in the South China Sea based on species and evolutionary diversity. *Biodivers. Conserv.* 25(2):331-344.
- Hughes, K.A., Ireland, L.C., Convey, P., and Fleming, A.H. 2016. Assessing the effectiveness of specially protected areas for conservation of Antarctica's botanical diversity. *Conserv. Biol.* 30(1): 113-120.
- Huhn, M., Zamani, N.P., von Juterzenka, K., and Lenz, M. 2016. Food availability in an anthropogenically impacted habitat determines tolerance to hypoxia in the Asian green mussel *Perna viridis*. *Mar. Biol.* 163(1):15.
- Hult, S.M., and Germano, D.J. 2015. Habitat use and home range of *Phrynosoma blainvillii* in the San Joaquin Desert of California. *Herpetol. Conserv. Biol.* 10(3):850-863.
- Hult, S.M., and Germano, D.J. 2015. Population structure, size, and activity patterns of *Phrynosoma blainvillii* in the San Joaquin Desert of California. *Herpetol. Conserv. Biol.* 10(3):839-849.
- Hunt, V.M., Jacobi, S.K., Knutson, M.G., Lonsdorf, E.V., Papon, S., and Zorn, J. 2015. A data management system for long-term natural resource monitoring and management projects with multiple cooperators. *Wildlife Soc. Bull.* 39(3):464-471.
- Jahnová, Z., Knapp, M., Boháč, J., and Tulachová, M. 2016. The role of various meadow margin types in shaping carabid and staphylinid beetle assemblages (Coleoptera: Carabidae, Staphylinidae) in meadow dominated landscapes. *J. Insect Conserv.* 20(1):59-69.
- James, K.C., Lewison, R.L., Dillingham, P.W., Curtis, K.A., and Moore, J.E. 2016. Drivers of retention and discards of elasmobranch non-target catch. *Environ. Conserv.* 43(1):3-12.
- Jones, K.R., Watson, J.E.M., Possingham, H.P., and Klein, C.J. 2016. Incorporating climate change into spatial conservation prioritisation: a review. *Biol. Conserv.* 194:121-130.
- Jørgensen, P.S., Böhning-Gaese, K., Thorup, K., Tøttrup, A.P., Chylarecki, P., Jiguet, F., Lehtikoinen, A., Noble, D.G., Reif, J., Schmid, H., van Turnhout, C., Burfield, I.J., Foppen, R., Voříšek, P., van Strien, A., Gregory, R.D., and Rahbek, C. 2016. Continent-scale global change attribution in European birds - combining annual and decadal time scales. *Global Change Biol.* 22(2):530-543.
- Jourdan, J., Westerwald, B., Kiechle, A., Chen, W., Streit, B., Klaus, S., Oetken, M., and Plath, M. 2016. Pronounced species turnover, but no functional equivalence in leaf consumption of invasive amphipods in the river Rhine. *Biol. Invasions* 18(3):763-774.
- Jubete, F., and Román, J. 2016. New large threatened populations of *Phengaris nausithous* discovered in the SW of Europe. *J. Insect Conserv.* 20(1):155-158.
- Juza, T., Zemanova, J., Tuser, M., Sajdlova, Z., Baran, R., Vasek, M., Ricard, D., Blabolil, P., Wagenvoort, A.J., Ketelaars, H.A.M., and Kubecka, J. 2016. Pelagic occurrence and diet of invasive round goby *Neogobius melanostomus* (Actinopterygii, Gobiidae) juveniles in deep well-mixed European reservoirs. *Hydrobiologia* 768(1):197-209.
- Kafash, A., Kaboli, M., Koehler, G., Yousefi, M., and Asadi, A. 2016. Ensemble distribution modeling of the Mesopotamian spiny-tailed lizard, *Saara loricata* (Blanford, 1874), in Iran: an insight into the impact of climate change. *Turk. J. Zool.* 40(2):262-271.
- Kajzer-Bonk, J., Szpiłtyk, D., and Woyciechowski, M. 2016. Invasive goldenrods affect abundance and diversity of grassland ant communities (Hymenoptera: Formicidae). *J. Insect Conserv.* 20(1):99-105.
- Kark, S., Sutherland, W.J., Shanas, U., Klass, K., Achisar, H., Dayan, T., Gavrieli, Y., Justo-Hanani, R., Mandelik, Y., Orion, N., Pargament, D., Portman, M., Reisman-Berman, O., Safriel, U.N., Schaffer, G., Steiner, N., Tauber, I., and Levin, N. 2016. Priority questions and horizon scanning for conservation: a comparative study. *PLoS ONE* 11(1):e0145978.
- Katovai, E., Katovai, D.D., Edwards, W., and Laurance, W.F. 2015. Forest structure, plant diversity and local endemism in a highly varied New Guinea landscape. *Trop. Conserv. Sci.* 8(2):284-300.
- Kelez, S., Velez-Zuazo, X., and Pacheco, A.S. 2016. First record of hybridization between green *Chelonia mydas* and hawksbill *Eretmochelys imbricata* sea turtles in the Southeast Pacific. *PeerJ* 4:e1712.
- Kidane, L., Nemomissa, S., and Woldu, Z. 2016. The effects of disturbance on the population structure and regeneration potential of five dominant woody species - in Hugumburda-Gratkhasu National Forest Priority Area, North-eastern Ethiopia. *Afr. J. Ecol.* 54(1):20-28.
- Kiffner, C., Peters, L., Stroming, A., and Kioko, J. 2015. Bushmeat consumption in the Tarangire-Manyara ecosystem, Tanzania. *Trop. Conserv. Sci.* 8(2):318-332.
- Kimball, B.A., Stelting, S.A., McAuliffe, T.W., Stahl, R.S., Garcia, R.A., and Pitt, W.C. 2016. Development of artificial bait for brown treesnake suppression. *Biol. Invasions* 18(2):359-369.
- Kindu, M., Schneider, T., Teketay, D., and Knoke, T. 2016. Changes of ecosystem service values in response to land use/land cover dynamics in Munessa-Shashemene landscape of the Ethiopian highlands. *Sci. Total Environ.* 547:137-147.
- Kioko, J., Kiffner, C., Phillips, P., Patterson-Abrolat, C., Collinson, W., and Katers, S. 2015. Driver knowledge and attitudes on animal vehicle collisions in Northern Tanzania. *Trop. Conserv. Sci.* 8(2):352-366.
- Kiss, O., Tokody, B., Deák, B., and Moskát, C. 2016. Increased landscape heterogeneity supports the conservation of Euro-



- pean rollers (*Coracias garrulus*) in southern Hungary. *J. Nature Conserv.* 29:97-104.
- Koester, M., Bayer, B., and Gergs, R. 2016. Is *Dikerogammarus villosus* (Crustacea, Gammaridae) a 'killer shrimp' in the River Rhine system? *Hydrobiologia* 768(1):299-313.
- Komine, H., Takeshita, K., Abe, S., Ishikawa, T., Kimura, M., Hashimoto, T., Kitaura, K., Morosawa, T., Seki, K., and Kaji, K. 2016. Relationships between capture-site characteristics and capture levels of the invasive mongoose on Amami-Oshima Island, Japan. *Biol. Invasions* 18(2):487-495.
- Komonen, A., Sundstrom, L.M., Wall, A., and Halme, P. 2016. Afforested fields benefit nutrient-demanding fungi. *Restor. Ecol.* 24(1):53-60.
- Koncki, N.G., and Aronson, M.F.J. 2015. Invasion risk in a warmer world: modeling range expansion and habitat preferences of three nonnative aquatic invasive plants. *Invas. Plant Sci. Manage.* 8(4):436-450.
- Košulič, O., Michalko, R., and Hula, V. 2016. Impact of canopy openness on spider communities: implications for conservation management of formerly coppiced oak forests. *PLoS ONE* 11(2):e0148585.
- Kremen, C. 2015. Reframing the land-sparing/land-sharing debate for biodiversity conservation. *Year Ecol. Conserv. Biol.* 1355:52-76.
- Lai, B.D., Wang, B.M., and Wen, F. 2016. *Primulina cordistigma*, a new species of Gesneriaceae from Guangdong, China and supplementary and emended description of floral morphology of *P. yangchunensis*. *Phytotaxa* 244(3):283-288.
- Lammertink, M., Kopuchian, C., Brandl, H.B., Tubaro, P.L., and Winkler, H. 2016. A striking case of deceptive woodpecker colouration: the threatened Helmeted Woodpecker *Dryocopus galeatus* belongs in the genus *Celeus*. *J. Ornithol.* 157(1):109-116.
- Landress, C.M. 2016. Fish assemblage associations with floodplain connectivity following restoration to benefit an endangered catostomid. *Trans. Am. Fish. Soc.* 145(1):83-93.
- Lang, A., Bühler, C., Dolek, M., Roth, T., and Züghart, W. 2016. Estimating sampling efficiency of diurnal Lepidoptera in farmland. *J. Insect Conserv.* 20(1):35-48.
- Larson, E.R., Howell, S., Kareiva, P., and Armsworth, P.R. 2016. Constraints of philanthropy on determining the distribution of biodiversity conservation funding. *Conserv. Biol.* 30(1):206-215.
- Latja, P., Malinga, G.M., Valtonen, A., and Roininen, H. 2016. Recovery of bird communities after selective logging and clear-cutting in Kibale National Park, Uganda. *Ostrich* 87(1):57-65.
- Lazzarin, L.C., da Silva, A.C., Higuchi, P., Souza, K., Perin, J.E., and Cruz, A.P. 2015. Biological invasion by *Hovenia dulcis* Thunb. in forest fragments in Upper-Uruguay Region, Brazil. *Rev. Arvore* 39(6):1007-1017.
- Lebeau, J., Wesselingh, R.A., and Van Dyck, H. 2016. Floral resource limitation severely reduces butterfly survival, condition and flight activity in simplified agricultural landscapes. *Oecologia* 180(2):421-427.
- Lechelt, J.D., and Bajer, P.G. 2016. Modeling the potential for managing invasive common carp in temperate lakes by targeting their winter aggregations. *Biol. Invasions* 18(3):831-839.
- Lemos-Espinal, J.A., Smith, G.R., Woolrich-Piña, G.A., and Montoya-Ayala, R. 2015. Diet of larval *Ambystoma rivulare* (Caudata: Ambystomatidae), a threatened salamander from the Volcan Nevado de Toluca, Mexico. *Phyllomedusa* 14(1):33-41.
- Lesica, P., Hanna, D., and Birkeland, N. 2016. Seeding to enhance native plant abundance following biological control of leafy spurge (*Euphorbia esula*). *Ecol. Restor.* 34(1):3-6.
- Li, C., Yang, L.H., Tian, D.K., Chen, Y., Wu, R.J., and Fu, N.F. 2016. *Begonia leipingensis* (Begoniaceae), a new compound-leaved species with unique petiolule pattern from Guangxi of China. *Phytotaxa* 244(1):45-56.
- Lindfield, S.J., Harvey, E.S., Halford, A.R., and McIlwain, J.L. 2016. Mesophotic depths as refuge areas for fishery-targeted species on coral reefs. *Coral Reefs* 35(1):125-137.
- Lissouck, R.O., Pommier, R., Breyse, D., Ohandja, L.M.A., and Mansie, R.D.A. 2016. Clustering for preservation of endangered timber species from the Congo Basin forest. *J. Trop. For. Sci.* 28(1):4-20.
- Loehle, C., and Sleep, D.J.H. 2015. Use and application of range mapping in assessing extinction risk in Canada. *Wildlife Soc. Bull.* 39(3):658-663.
- Lopez-Calderon, J.M., Riosmena-Rodríguez, R., Torre, J., Meling, A., and Basurto, X. 2016. *Zostera marina* meadows from the Gulf of California: conservation status. *Biodivers. Conserv.* 25(2):261-273.
- López-Rojas, J.J., Souza, M.B., and Morato, E.F. 2015. Influence of habitat structure on *Pristimantis* species (Anura: Craugastoridae) in a bamboo-dominated forest fragment in southwestern Amazonia. *Phyllomedusa* 14(1):19-31.
- Loya, Y., Eyal, G., Treibitz, T., Lesser, M.P., and Appeldoorn, R. 2016. Theme section on mesophotic coral ecosystems: advances in knowledge and future perspectives. *Coral Reefs* 35(1):1-9.
- Lundström, J., Öhman, K., Ronnqvist, M., and Gustafsson, L. 2016. Considering future potential regarding structural diversity in selection of forest reserves. *PLoS ONE* 11(2):e0148960.
- Maceda-Veiga, A., Basas, H., Lanzaco, G., Sala, M., de Sostoa, A., and Serra, A. 2016. Impacts of the invader giant reed (*Arundo donax*) on riparian habitats and ground arthropod communities. *Biol. Invasions* 18(3):731-749.
- Macip-Ríos, R., Ontiveros, R., López-Alcaide, S., and Casas-Andreu, G. 2015. The conservation status of the freshwater and terrestrial turtles of Mexico: a critical review of biodiversity conservation strategies. *Rev. Mex. Biodivers.* 86(4):1048-1057.
- MacIsaac, H.J., Eyraud, A.P., Beric, B., and Ghabooli, S. 2016. Can tropical macrophytes establish in the Laurentian Great Lakes? *Hydrobiologia* 767(1):165-174.
- Magellan, K., and García-Berthou, E. 2016. Experimental evidence for the use of artificial refugia to mitigate the impacts of invasive *Gambusia holbrooki* on an endangered fish. *Biol. Invasions* 18(3):873-882.
- Mai, P., Rossado, A., Bonifacino, J.M., and Waechter, J.L. 2016. Taxonomic revision of *Peperomia* (Piperaceae) from Uruguay. *Phytotaxa* 244(2):125-144.
- Manhães, V.D., Couto, D.R., De Miranda, F.D., and Carrijo, T.T. 2016. New findings on the distribution of *Pitcairnia azouryi* (Bromeliaceae), a species restricted to Atlantic Forest inselbergs. *Phytotaxa* 245(1):59-65.
- Maoela, M.A., Roets, F., Jacobs, S.M., and Esler, K.J. 2016. Restoration of invaded Cape Floristic Region riparian systems leads to a recovery in foliage-active arthropod alpha- and beta-diversity. *J. Insect Conserv.* 20(1):85-97.
- Marín, M.A., Giraldo, C.E., Marín, A.L., Álvarez, C.F., and Pyrcz, T.W. 2015. Differences in butterfly (Nymphalidae) diversity

- between hillsides and hilltop forest patches in the northern Andes. *Stud. Neotrop. Fauna Environ.* 50(3):194-203.
- Martín, B., Onrubia, A., de la Cruz, A., and Ferrer, M. 2016. Trends of autumn counts at Iberian migration bottlenecks as a tool for monitoring continental populations of soaring birds in Europe. *Biodivers. Conserv.* 25(2):295-309.
- Martin, J.A., Burkhart, J.K., Thackston, R.E., and Carroll, J.P. 2015. Exotic grass alters micro-climate and mobility for northern bobwhite chicks. *Wildlife Soc. Bull.* 39(4):834-839.
- Marzinelli, E.M., Leong, M.R., Campbell, A.H., Steinberg, P.D., and Vergés, A. 2016. Does restoration of a habitat-forming seaweed restore associated faunal diversity? *Restor. Ecol.* 24(1):81-90.
- Masson, L., Brownscombe, J.W., and Fox, M.G. 2016. Fine scale spatio-temporal life history shifts in an invasive species at its expansion front. *Biol. Invasions* 18(3):775-792.
- Matsubara, Y., and Sakai, S. 2016. The role of flood regime on invasive success of exotic species growing in riparian environments. *Biol. Invasions* 18(3):793-808.
- Maute, K., French, K., Story, P., Bull, C.M., and Hose, G.C. 2016. Effects of two locust control methods on wood-eating termites in arid Australia. *J. Insect Conserv.* 20(1):107-118.
- Maxwell, S.L., Milner-Gulland, E.J., Jones, J.P.G., Knight, A.T., Bunnefeld, N., Nuno, A., Bal, P., Earle, S., Watson, J.E.M., and Rhodes, J.R. 2015. Being smart about SMART environmental targets. *Science* 347(6226):1075-1076.
- Maxwell, S.L., Venter, O., Jones, K.R., and Watson, J.E.M. 2015. Integrating human responses to climate change into conservation vulnerability assessments and adaptation planning. *Year Ecol. Conserv. Biol.* 1355:98-116.
- McCary, M.A., Mores, R., Farfan, M.A., and Wise, D.H. 2016. Invasive plants have different effects on trophic structure of green and brown food webs in terrestrial ecosystems: a meta-analysis. *Ecol. Lett.* 19(3):328-335.
- McClenachan, L., Cooper, A.B., Hardt, M., McKenzie, M., and Drew, J.A. 2016. Conservation implications of omitting historical data sources: response to Baisre. *Conserv. Biol.* 30(1):226-227.
- McDonald-Madden, E., Sabbadin, R., Game, E.T., Baxter, P.W.J., Chadès, I., and Possingham, H.P. 2016. Using food-web theory to conserve ecosystems. *Nat. Commun.* 7:10245.
- McDonald, R.I. 2015. The effectiveness of conservation interventions to overcome the urban-environmental paradox. *Year Ecol. Conserv. Biol.* 1355:1-14.
- McGeoch, M.A., Genovesi, P., Bellingham, P.J., Costello, M.J., McGrannachan, C., and Sheppard, A. 2016. Prioritizing species, pathways, and sites to achieve conservation targets for biological invasion. *Biol. Invasions* 18(2):299-314.
- McInerney, P.J., Rees, G.N., Gawne, B., and Suter, P. 2016. Invasive *Salix fragilis*: altered metabolic patterns in Australian streams. *Hydrobiologia* 767(1):267-277.
- McKeon, C.S., Weber, M.X., Alter, S.E., Seavy, N.E., Crandall, E.D., Barshis, D.J., Fechter-Leggett, E.D., and Oleson, K.L.L. 2016. Melting barriers to faunal exchange across ocean basins. *Global Change Biol.* 22(2):465-473.
- McKinney, R.A., Raposa, K.B., and Trocki, C.L. 2015. Status and distribution of wintering waterfowl in Narragansett Bay, Rhode Island, 2005-2014. *Northeastern Nat.* 22(4):730-745.
- McMullin, R.T. 2015. The lichens of Prince Edward Island, Canada: a second checklist, with species ranked for conservation status. *Rhodora* 117(972):454-484.
- Meek, M.H., Wells, C., Tomalty, K.M., Ashander, J., Cole, E.M., Gille, D.A., Putman, B.J., Rose, J.P., Savoca, M.S., Yamane, L., Hull, J.M., Rogers, D.L., Rosenblum, E.B., Shogren, J.F., Swaisgood, R.R., and May, B. 2016. We should not be afraid to talk about fear of failure in conservation. *Biol. Conserv.* 194:218-219.
- Meijer, K.S. 2015. A comparative analysis of the effectiveness of four supply chain initiatives to reduce deforestation. *Trop. Conserv. Sci.* 8(2):583-598.
- Meira, R.M.S.A., Peixoto, A.L., Coelho, M.A.N., Ponzo, A.P.L., Esteves, V.G.L., Silva, M.C., Câmara, P.E.A.S., and Meira-Neto, J.A.A. 2016. Brazil's mining code under attack: giant mining companies impose unprecedented risk to biodiversity. *Biodivers. Conserv.* 25(2):407-409.
- Mellin, C., Mouillot, D., Kulbicki, M., McClanahan, T.R., Vigliola, L., Bradshaw, C.J.A., Brainard, R.E., Chabanet, P., Edgar, G.J., Fordham, D.A., Friedlander, A.M., Parravicini, V., Sequeira, A.M.M., Stuart-Smith, R.D., Wantiez, L., and Caley, M.J. 2016. Humans and seasonal climate variability threaten large-bodied coral reef fish with small ranges. *Nat. Commun.* 7:10491.
- Mendoza-Fernández, A.J., and Mota, J.F. 2016. Red Lists versus nature protection Acts: new analytical and numerical method to test threat trends. *Biodivers. Conserv.* 25(2):239-260.
- Mertens, J., Jocque, M., Geeraert, L., and De Beenhouwer, M. 2016. Newly discovered populations of the Ethiopian endemic and endangered *Afraxalus clarkei* Largen, implications for conservation. *ZooKeys* 565:141-146.
- Mi, C.R., Falk, H., and Guo, Y.M. 2016. Climate envelope predictions indicate an enlarged suitable wintering distribution for Great Bustards (*Otis tarda dybowskii*) in China for the 21<sup>st</sup> century. *PeerJ* 4:e1630.
- Milligan, M.C., Johnson, M.D., Garfinkel, M., Smith, C.J., and Njoroge, P. 2016. Quantifying pest control services by birds and ants in Kenyan coffee farms. *Biol. Conserv.* 194:58-65.
- Minhós, T., Chikhi, L., Sousa, C., Vicente, L.M., da Silva, M.F., Heller, R., Casanova, C., and Bruford, M.W. 2016. Genetic consequences of human forest exploitation in two colobus monkeys in Guinea Bissau. *Biol. Conserv.* 194:194-208.
- Miranda, R., and Pino-del-Carpio, A. 2016. Analysing freshwater fish biodiversity records and respective conservation areas in Spain. *J. Appl. Ichthyol.* 32(1):240-248.
- Mohamed, K.S., and Veena, S. 2016. How long does it take for tropical marine fish stocks to recover after declines? Case studies from the Southwest coast of India. *Curr. Sci.* 110(4):584-594.
- Mohd-Hanif, R.M.D., Nur-Aida, M.T., Zahirunisa, A.R., Mohd-Ridwan, A.R., and Abdullah, M.T. 2015. Contribution of regenerated forest in conservation of bats in Peninsular Malaysia. *J. Trop. For. Sci.* 27(4):506-516.
- Molina-Montenegro, M.A., Galleguillos, C., Oses, R., Acuña-Rodríguez, I.S., Lavin, P., Gallardo-Cerda, J., Torres-Díaz, C., Diez, B., Pizarro, G.E., and Atala, C. 2016. Adaptive phenotypic plasticity and competitive ability deployed under a climate change scenario may promote the invasion of *Poa annua* in Antarctica. *Biol. Invasions* 18(3):603-618.
- Monroy-Vilchis, O., Castillo-Huitrón, N.M., Zarco-González, M.M., and Rodríguez-Soto, C. 2016. Potential distribution of *Ursus americanus* in Mexico and its persistence: implications for conservation. *J. Nature Conserv.* 29:62-68.

- Moore, J.H., Sittimongkol, S., Campos-Arceiz, A., Sumpah, T., and Eichhorn, M.P. 2016. Fruit gardens enhance mammal diversity and biomass in a Southeast Asian rainforest. *Biol. Conserv.* 194:132-138.
- Moore, M., Solofo Niaina Fidy, F.J., and Edmonds, D. 2015. The new toad in town: distribution of the Asian toad, *Duttaphrynus melanostictus*, in the Toamasina area of eastern Madagascar. *Trop. Conserv. Sci.* 8(2):439-454.
- Mortensen, J.L., and Reed, J.M. 2016. Population viability and vital rate sensitivity of an endangered avian cooperative breeder, the White-breasted Thrasher (*Ramphocinclus brachyurus*). *PLoS ONE* 11(2):e0148928.
- Mosher, K.R., and Bateman, H.L. 2016. The effects of riparian restoration following saltcedar (*Tamarix* spp.) biocontrol on habitat and herpetofauna along a desert stream. *Restor. Ecol.* 24(1):71-80.
- Mota-Vargas, C., and Rojas-Soto, O.R. 2016. Taxonomy and ecological niche modeling: implications for the conservation of wood partridges (genus *Dendrortyx*). *J. Nature Conserv.* 29:1-13.
- Mouillot, D., Parravicini, V., Bellwood, D.R., Leprieux, F., Huang, D., Cowman, P.F., Albouy, C., Hughes, T.P., Thuiller, W., and Guilhaumon, F. 2016. Global marine protected areas do not secure the evolutionary history of tropical corals and fishes. *Nat. Commun.* 7:10359.
- Muasya, A.M., and Vollesen, K. 2015. *Cyperus volkielloides* (Cyperaceae), a new ephemeral species from Tanzania. *Kew Bull.* 70(4):53.
- Munzinger, J., and Levionnois, S. 2016. *Novitates neocaledonicae III: A new species of Citronella* (Cardiopteridaceae) endemic to New Caledonia. *Phytotaxa* 245(3):223-228.
- Muposhi, V.K., Gandiwa, E., Makuza, S.M., and Bartels, P. 2015. Population and trophy quality trends of three gregarious herbivores in an insulated semi-arid savanna ecosystem (Cawston Ranch, Zimbabwe), 1997-2014. *Trop. Conserv. Sci.* 8(2):424-438.
- Murn, C., Mundy, P., Virani, M.Z., Borello, W.D., Holloway, G.J., and Thiollay, J.M. 2016. Using Africa's protected area network to estimate the global population of a threatened and declining species: a case study of the Critically Endangered White-headed Vulture *Trigonoceps occipitalis*. *Ecol. Evol.* 6(4):1092-1103.
- Mutanga, C.N., Vengesayi, S., Gandiwa, E., and Muboko, N. 2015. Community perceptions of wildlife conservation and tourism: a case study of communities adjacent to four protected areas in Zimbabwe. *Trop. Conserv. Sci.* 8(2):564-582.
- Nack, C.C., Limburg, K.E., and Schmidt, R.E. 2015. Diet composition and feeding behavior of larval American shad, *Alosa sapidissima* (Wilson), after the introduction of the invasive zebra mussel, *Dreissena polymorpha* (Pallas), in the Hudson River Estuary, NY. *Northeastern Nat.* 22(2):437-450.
- Nascimbene, J., Zottini, M., Ivan, D., Casagrande, V., and Marini, L. 2016. Do vineyards in contrasting landscapes contribute to conserve plant species of dry calcareous grasslands? *Sci. Total Environ.* 545:244-249.
- Ndang'ang'a, P.K., Barasa, F.M., Kariuki, M.N., and Muoria, P. 2016. Trends in forest condition, threats and conservation action as derived from participatory monitoring in coastal Kenya. *Afr. J. Ecol.* 54(1):76-86.
- Negaresh, K., and Rahiminejad, M.R. 2016. *Centaurea rahiminejadii* sp. nov. and a new record in the genus *Centaurea* (Asteraceae, Cardueae-Centaureinae) from Iran. *Nord. J. Bot.* 34(1):15-22.
- Nel, J.L., Roux, D.J., Driver, A., Hill, L., Maherry, A.C., Snaddon, K., Petersen, C.R., Smith-Adao, L.B., Van Deventer, H., and Reyers, B. 2016. Knowledge co-production and boundary work to promote implementation of conservation plans. *Conserv. Biol.* 30(1):176-188.
- Neuenschwander, P., Bown, D., Hedegbetan, G.C., and Adomou, A. 2015. Long-term conservation and rehabilitation of threatened rain forest patches under different human population pressures in West Africa. *Nat. Conserv.* 13:21-46.
- Nicolau, L., Ferreira, M., Santos, J., Araújo, H., Sequeira, M., Vinga, J., Eira, C., and Marçalo, A. 2016. Sea turtle strandings along the Portuguese mainland coast: spatio-temporal occurrence and main threats. *Mar. Biol.* 163(1):21.
- Nishikawa, Y., and Shimamura, T. 2016. Effects of alien invasion by *Bombus terrestris* L. (Apidae) on the visitation patterns of native bumblebees in coastal plants in northern Japan. *J. Insect Conserv.* 20(1):71-84.
- Nyirenda, V.R. 2015. Spatial variability of Nile Crocodiles (*Crocodylus niloticus*) in the Lower Zambezi River reaches. *Herpetol. Conserv. Biol.* 10(3):874-882.
- O'Brien, J. 2015. Saving the common hamster (*Cricetus cricetus*) from extinction in Alsace (France): potential flagship conservation or an exercise in futility? *Hystrix* 26(2):89-94.
- Oberdorff, T., Jézéquel, C., Campero, M., Carvajal-Vallejos, F., Cornu, J.F., Dias, M.S., Duponchelle, F., Maldonado-Ocampo, J.A., Ortega, H., Renno, J.F., and Tedesco, P.A. 2015. Opinion Paper: how vulnerable are Amazonian freshwater fishes to ongoing climate change? *J. Appl. Ichthyol.* 31:4-9.
- Oelofse, M., Birch-Thomsen, T., Magid, J., de Neergaard, A., van Deventer, R., Bruun, S., and Hill, T. 2016. The impact of black wattle encroachment of indigenous grasslands on soil carbon, Eastern Cape, South Africa. *Biol. Invasions* 18(2):445-456.
- Ohrens, O., Treves, A., and Bonacic, C. 2016. Relationship between rural depopulation and puma-human conflict in the high Andes of Chile. *Environ. Conserv.* 43(1):24-33.
- Olah, G., Butchart, S.H.M., Symes, A., Guzmán, I.M., Cunningham, R., Brightsmith, D.J., and Heinsohn, R. 2016. Ecological and socio-economic factors affecting extinction risk in parrots. *Biodivers. Conserv.* 25(2):205-223.
- Oldekop, J.A., Holmes, G., Harris, W.E., and Evans, K.L. 2016. A global assessment of the social and conservation outcomes of protected areas. *Conserv. Biol.* 30(1):133-141.
- Oliveira, A.L.F., Guimaraes, P.J.F., and Romero, R. 2015. Validation of the names *Tibouchina albescens* and *Tibouchina nigricans* (Melastomataceae), two new species from Central Brazil. *Syst. Bot.* 40(4):1003-1011.
- Orgiazzi, A., Panagos, P., Yigini, Y., Dunbar, M.B., Gardi, C., Montanarella, L., and Ballabio, C. 2016. A knowledge-based approach to estimating the magnitude and spatial patterns of potential threats to soil biodiversity. *Sci. Total Environ.* 545:11-20.
- Orlandi, S., Probo, M., Sitzia, T., Trentanovi, G., Garbarino, M., Lombardi, G., and Lonati, M. 2016. Environmental and land use determinants of grassland patch diversity in the western and eastern Alps under agro-pastoral abandonment. *Biodivers. Conserv.* 25(2):275-293.
- Öst, M., Ramula, S., Lindén, A., Karell, P., and Kilpi, M. 2016. Small-scale spatial and temporal variation in the demographic processes underlying the large-scale decline of eiders in the Baltic Sea. *Pop. Ecol.* 58(1):121-133.

- Pander, J., and Geist, J. 2016. Can fish habitat restoration for rheophilic species in highly modified rivers be sustainable in the long run? *Ecol. Eng.* 88:28-38.
- Pandey, D.P., Lama, B., Dhungel, D., Modak, A., and Jelić, D. 2016. *Oligodon kheriensis* ACHARJI & RAY, 1936, in India and Nepal, with notes on distribution, ecology and conservation. *Herpetozoa* 28(3-4):181-184.
- Patoka, J., Bláha, M., Devetter, M., Rylková, K., Čadková, Z., and Kalous, L. 2016. Aquarium hitchhikers: attached commensals imported with freshwater shrimps via the pet trade. *Biol. Invasions* 18(2):457-461.
- Pauchard, A., Milbau, A., Albiñ, A., Alexander, J., Nun, M.A., Daehler, C., Englund, G., Essl, F., Evengård, B., Greenwood, G.B., Haider, S., Lenoir, J., McDougall, K., Muths, E., Nuñez, M.A., Olofsson, J., Pellissier, L., Rabitsch, W., Rew, L.J., Robertson, M., Sanders, N., and Kueffer, C. 2016. Non-native and native organisms moving into high elevation and high latitude ecosystems in an era of climate change: new challenges for ecology and conservation. *Biol. Invasions* 18(2):345-353.
- Paynter, Q., Buckley, Y.M., Peterson, P., Gourlay, A.H., and Fowler, S.V. 2016. Breaking and remaking a seed and seed predator interaction in the introduced range of Scotch Broom (*Cytisus scoparius*) in New Zealand. *J. Ecol.* 104(1):182-192.
- Pedrero-López, L.V., Rosete-Rodríguez, A., Sánchez-Coronado, M.E., Mendoza-Hernández, P.E., and Orozco-Segovia, A. 2016. Effects of hydropriming treatments on the invigoration of aged *Dodonaea viscosa* seeds and water-holding polymer on the improvement of seedling growth in a lava field. *Restor. Ecol.* 24(1):61-70.
- Pegas, F.D., and Castley, J.G. 2016. Private reserves in Brazil: distribution patterns, logistical challenges, and conservation contributions. *J. Nature Conserv.* 29:14-24.
- Peñas, J., Barrios, S., Bobo-Pinilla, J., Lorite, J., and Martínez-Ortega, M.M. 2016. Designing conservation strategies to preserve the genetic diversity of *Astragalus edulis* Bunge, an endangered species from western Mediterranean region. *PeerJ* 4:e1474.
- Pérez-Bañón, C., Radenković, S., Vujić, A., Ståhls, G., Rojo, S., Grković, A., and Petanidou, T. 2016. *Brachyopa minima* (Diptera: Syrphidae), a new species from Greece with notes on the biodiversity and conservation of the genus *Brachyopa* Meigen in the Northern Aegean Islands. *Zootaxa* 4072(2):217-234.
- Pergl, J., Sádlo, J., Petrusek, A., Laštůvka, Z., Musil, J., Perglová, I., Šanda, R., Šefrová, H., Šíma, J., Vohralík, V., and Pyšek, P. 2016. Black, Grey and Watch Lists of alien species in the Czech Republic based on environmental impacts and management strategy. *NeoBiota* 28:1-37.
- Pessoa, E., Maciel, J.R., and Alves, M. 2015. *Campylocentrum brevifolium* (Lindl.) E. M. Pessoa & M. Alves, a neglected and critically endangered orchid from the Atlantic Forest of Brazil. *Kew Bull.* 70(4):43.
- Petersen, A.H., Strange, N., Anthon, S., Bjørner, T.B., and Rahbek, C. 2016. Conserving what, where and how? Cost-efficient measures to conserve biodiversity in Denmark. *J. Nature Conserv.* 29:33-44.
- Phalan, B., Green, R.E., Dicks, L.V., Dotta, G., Feniuk, C., Lamb, A., Strassburg, B.B.N., Williams, D.R., Ermgassen, E.K.H.J.Z., and Balmford, A. 2016. How can higher-yield farming help to spare nature? *Science* 351(6272):450-451.
- Pietri, C. 2015. Range and status of the Italian hare *Lepus corsicanus* in Corsica. *Hystrix* 26(2):166-168.
- Pond, B.A., Brown, G.S., Wilson, K.S., and Schaefer, J.A. 2016. Drawing lines: spatial behaviours reveal two ecotypes of woodland caribou. *Biol. Conserv.* 194:139-148.
- Poorter, L., Ongers, F.B., Aide, T.M., Zambrano, A.M.A., Balvanera, P., Becknell, J.M., Boukili, V., Brancalion, P.H.S., Broadbent, E.N., Chazdon, R.L., Craven, D., de Almeida-Cortez, J.S., Cabral, G.A.L., de Jong, B.H.J., Denslow, J.S., Dent, D.H., DeWalt, S.J., Dupuy, J.M., Durán, S.M., Espírito-Santo, M.M., Fandino, M.C., César, R.G., Hall, J.S., Hernandez-Stefanoni, J.L., Jakovac, C.C., Junqueira, A.B., Kennard, D., Letcher, S.G., Licona, J.C., Lohbeck, M., Marin-Spiotta, E., Martínez-Ramos, M., Massoca, P., Meave, J.A., Mesquita, R., Mora, F., Muñoz, R., Muscarella, R., Nunes, Y.R.F., Ochoa-Gaona, S., de Oliveira, A.A., Orihuela-Belmonte, E., Peña-Claros, M., Pérez-García, E.A., Piotto, D., Powers, J.S., Rodríguez-Velázquez, J., Romero-Pérez, I.E., Ruiz, J., Saldarriaga, J.G., Sanchez-Azofeifa, A., Schwartz, N.B., Steininger, M.K., Swenson, N.G., Toledo, M., Uriarte, M., van Breugel, M., van der Wal, H., Veloso, M.D.M., Vester, H.F.M., Vicentini, A., Vieira, I.C.G., Bentos, T.V., Williamson, G.B., and Rozendaal, D.M.A. 2016. Biomass resilience of Neotropical secondary forests. *Nature* 530(7589):211-214.
- Posner, S.M., McKenzie, E., and Ricketts, T.H. 2016. Policy impacts of ecosystem services knowledge. *Proc. Natl. Acad. Sci. USA* 113(7):1760-1765.
- Powell, L.L., Wolfe, J.D., Johnson, E.I., and Stouffer, P.C. 2016. Forest recovery in post-pasture Amazonia: testing a conceptual model of space use by insectivorous understory birds. *Biol. Conserv.* 194:22-30.
- Powers, S.L., Ahlbrand, S.E., Kuhajda, B.R., and West, K.E. 2015. Testing for genetic divergence within and among isolated populations of a threatened species in Georgia and Alabama, *Percina aurolineata* (Percidae; Goldline Darter). *South-east. Nat.* 14(4):675-684.
- Proulx, G., Brook, R.K., Cattet, M., Darimont, C., and Paquet, P.C. 2016. Poisoning wolves with strychnine is unacceptable in experimental studies and conservation programmes. *Environ. Conserv.* 43(1):1-2.
- Quan, W.M., Zhang, H., Wu, Z.L., Jin, S.F., Tang, F.H., and Dong, J.B. 2016. Does invasion of *Spartina alterniflora* alter microhabitats and benthic communities of salt marshes in Yangtze River estuary? *Ecol. Eng.* 88:153-164.
- Rabitsch, W., Genovesi, P., Scalera, R., Biała, K., Josefsson, M., and Essl, F. 2016. Developing and testing alien species indicators for Europe. *J. Nature Conserv.* 29:89-96.
- Raffaele, E., Nuñez, M.A., Eneström, J., and Blackhall, M. 2016. Fire as mediator of pine invasion: evidence from Patagonia, Argentina. *Biol. Invasions* 18(3):597-601.
- Rais, M., Akram, A., Ali, S.M., Asadi, M.A., Jahangir, M., Jilani, M.J., and Anwar, M. 2015. Qualitative analysis of factors influencing the diversity and spatial distribution of herpetofauna in Chakwal Tehsil (Chakwal District), Punjab, Pakistan. *Herpetol. Conserv. Biol.* 10(3):801-810.
- Ramirez-Gomez, S.O.I., Brown, G., Verweij, P.A., and Boot, R. 2016. Participatory mapping to identify indigenous community use zones: implications for conservation planning in southern Suriname. *J. Nature Conserv.* 29:69-78.
- Ramsdell, C.P., Sorice, M.G., and Dwyer, A.M. 2016. Using finan-

- cial incentives to motivate conservation of an at-risk species on private lands. *Environ. Conserv.* 43(1):34-44.
- Rannap, R., Kaart, T., Iversen, L.L., de Vries, W., and Briggs, L. 2015. Geographically varying habitat characteristics of a wide-ranging amphibian, the Common Spadefoot Toad (*Pelobates fuscus*), in northern Europe. *Herpetol. Conserv. Biol.* 10(3):904-916.
- Raub, F., Höfer, H., Scheuermann, L., de Britez, R.M., and Brandl, R. 2015. Conserving landscape structure - conclusions from partitioning of spider diversity in southern Atlantic forests of Brazil. *Stud. Neotrop. Fauna Environ.* 50(3):158-174.
- Reisland, M.A., and Lambert, J.E. 2016. Sympatric apes in sacred forests: shared space and habitat use by humans and endangered Javan gibbons (*Hylobates moloch*). *PLoS ONE* 11(1):e0146891.
- Reiter, N., Whitfield, J., Pollard, G., Bedggood, W., Argall, M., Dixon, K., Davis, B., and Swarts, N. 2016. Orchid re-introductions: an evaluation of success and ecological considerations using key comparative studies from Australia. *Plant Ecol.* 217(1):81-95.
- Rhoades, P.R., Koch, J.B., Waits, L.P., Strange, J.P., and Eigenbrode, S.D. 2016. Evidence for *Bombus occidentalis* (Hymenoptera: Apidae) populations in the Olympic peninsula, the Palouse prairie, and forests of northern Idaho. *J. Insect Sci.* 16:5.
- Robins, J.H., Miller, S.D., Russell, J.C., Harper, G.A., and Fewster, R.M. 2016. Where did the rats of Big South Cape Island come from? *New Zeal. J. Ecol.* 40(2):229-234.
- Rodrigues, M.E., Roque, F.D., Quintero, J.M.O., Pena, J.C.D., de Sousa, D.C., and de Marco, P. 2016. Nonlinear responses in damselfly community along a gradient of habitat loss in a savanna landscape. *Biol. Conserv.* 194:113-120.
- Rodríguez-Flores, P.C., Gutiérrez-Rodríguez, J., Aguirre-Ruiz, E.F., and García-París, M. 2016. Salt lakes of La Mancha (Central Spain): A hot spot for tiger beetle (Carabidae, Cicindelinae) species diversity. *ZooKeys* 561:63-103.
- Rodríguez-Pérez, H., Hilaire, S., and Mesléard, F. 2016. Temporary pond ecosystem functioning shifts mediated by the exotic red swamp crayfish (*Procambarus clarkii*): a mesocosm study. *Hydrobiologia* 767(1):333-345.
- Romeiras, M.M., Catarino, S., Gomes, I., Fernandes, C., Costa, J.C., Caujapé-Castells, J., and Duarte, M.C. 2016. IUCN Red List assessment of the Cape Verde endemic flora: towards a global strategy for plant conservation in Macaronesia. *Bot. J. Linn. Soc.* 180(3):413-425.
- Rotllan-Puig, X., and Traveset, A. 2016. Declining relict plants: Climate effect or seed dispersal disruption? A landscape-scale approach. *Basic Appl. Ecol.* 17(1):81-91.
- Ruiz-Lopez, M.J., Barelli, C., Rovero, F., Hodges, K., Roos, C., Peterman, W.E., and Ting, N. 2016. A novel landscape genetic approach demonstrates the effects of human disturbance on the Udzungwa red colobus monkey (*Procolobus gordonorum*). *Heredity* 116(2):167-176.
- Russell, J.C., and Broome, K.G. 2016. Fifty years of rodent eradications in New Zealand: another decade of advances. *New Zeal. J. Ecol.* 40(2):197-204.
- Russildi, G., Arroyo-Rodríguez, V., Hernández-Ordóñez, O., Pineda, E., and Reynoso, V.H. 2016. Species- and community-level responses to habitat spatial changes in fragmented rainforests: assessing compensatory dynamics in amphibians and reptiles. *Biodivers. Conserv.* 25(2):375-392.
- Sahlén, E., Noell, S., DePerno, C.S., Kindberg, J., Spong, G., and Croomsigt, J.P.G.M. 2016. Phantoms of the forest: legacy risk effects of a regionally extinct large carnivore. *Ecol. Evol.* 6(3):791-799.
- Salazar, R.D., Montgomery, R.A., Thresher, S.E., and Macdonald, D.W. 2016. Mapping the relative probability of common toad occurrence in terrestrial lowland farm habitat in the United Kingdom. *PLoS ONE* 11(2):e0148269.
- Sales, L.P., Hayward, M.W., Zambaldi, L., Passamani, M., de Melo, F.R., and Loyola, R. 2015. Time-lags in primate occupancy: a study case using dynamic models. *Nat. Conservacao* 13(2):139-144.
- Samways, M.J., and Pryke, J.S. 2016. Large-scale ecological networks do work in an ecologically complex biodiversity hotspot. *Ambio* 45(2):161-172.
- Sandalj, M., Treydte, A.C., and Ziegler, S. 2016. Is wild meat luxury? Quantifying wild meat demand and availability in Hue, Vietnam. *Biol. Conserv.* 194:105-112.
- Sarker, S.K., Reeve, R., Thompson, J., Paul, N.K., and Matthiopoulos, J. 2016. Are we failing to protect threatened mangroves in the Sundarbans world heritage ecosystem? *Sci. Rep.* 6:21234.
- Sarrazin, F., and Lecomte, J. 2016. Evolution in the Anthropocene. *Science* 351(6276):922-923.
- Sasidhran, S., Adila, N., Hamdan, M.S., Samantha, L.D., Aziz, N., Kamarudin, N., Puan, C.L., Turner, E., and Azhar, B. 2016. Habitat occupancy patterns and activity rate of native mammals in tropical fragmented peat swamp reserves in Peninsular Malaysia. *Forest Ecol. Manag.* 363:140-148.
- Scatigna, A.V., Carmo, J.A.M., and Simões, A.O. 2016. New records of *Philcoxia minensis* (Plantaginaceae) and *Mitracarpus pusillus* (Rubiaceae): conservation status assessment and notes on type specimens of two threatened species from the Espinhaço Range, Minas Gerais, Brazil. *Phytotaxa* 243(3):297-300.
- Schachat, S.R., Mulcahy, D.G., and Mendelson, J.R. 2016. Conservation threats and the phylogenetic utility of IUCN Red List rankings in *Incilius* toads. *Conserv. Biol.* 30(1):72-81.
- Scherz, M.D., Rakotoarison, A., Hawlitschek, O., Vences, M., and Glaw, F. 2015. Leaping towards a saltatorial lifestyle? An unusually long-legged new species of *Rhombophryne* (Anura, Microhylidae) from the Sorata massif in northern Madagascar. *Zoosyst. Evol.* 91(2):105-114.
- Schirmel, J., Bundschuh, M., Entling, M.H., Kowarik, I., and Buchholz, S. 2016. Impacts of invasive plants on resident animals across ecosystems, taxa, and feeding types: a global assessment. *Global Change Biol.* 22(2):594-603.
- Schlacher, T.A., Lucrezi, S., Connolly, R.M., Peterson, C.H., Gilby, B.L., Maslo, B., Olds, A.D., Walker, S.J., Leon, J.X., Huijbers, C.M., Weston, M.A., Turra, A., Hyndes, G.A., Holt, R.A., and Schoeman, D.S. 2016. Human threats to sandy beaches: a meta-analysis of ghost crabs illustrates global anthropogenic impacts. *Estuarine Coast. Shelf Sci.* 169:56-73.
- Schmiedel, D., Wilhelm, E.G., Roth, M., Scheibner, C., Nehring, S., and Winter, S. 2016. Evaluation system for management measures of invasive alien species. *Biodivers. Conserv.* 25(2):357-374.
- Shackleton, K., and Ratnieks, F.L.W. 2016. Garden varieties: how attractive are recommended garden plants to butterflies? *J. Insect Conserv.* 20(1):141-148.
- Shafer, A.B.A., Wolf, J.B.W., Alves, P.C., Bergström, L., Colling, G., Dalén, L., De Meester, L., Ekblom, R., Fior, S., Hajibabaei,

- M., Hoezel, A.R., Hoglund, J., Jensen, E.L., Krützen, M., Norman, A.J., Österling, E.M., Ouborg, N.J., Piccolo, J., Primmer, C.R., Reed, F.A., Roumet, M., Salmona, J., Schwartz, M.K., Segelbacher, G., Thaulow, J., Valtonen, M., Vergeer, P., Weissensteiner, M., Wheat, C.W., Vilà, C., and Zieliński, P. 2016. Genomics in conservation: case studies and bridging the gap between data and application - reply. *Trends Ecol. Evol.* 31(2): 83-84.
- Shaffer, J.A., and Buhl, D.A. 2016. Effects of wind-energy facilities on breeding grassland bird distributions. *Conserv. Biol.* 30(1):59-71.
- Shaver, D.J., Hart, K.M., Fujisaki, I., Rubio, C., Sartain-Iverson, A.R., Peña, J., Gamez, D.G., Miron, R.D.G.D., Burchfield, P.M., Martinez, H.J., and Ortiz, J. 2016. Migratory corridors of adult female Kemp's ridley turtles in the Gulf of Mexico. *Biol. Conserv.* 194:158-167.
- Shekhovtsov, S.V., Golovanova, E.V., and Peltek, S.E. 2016. Different dispersal histories of lineages of the earthworm *Aporrectodea caliginosa* (Lumbricidae, Annelida) in the Palearctic. *Biol. Invasions* 18(3):751-761.
- Shoo, L.P., Freebody, K., Kanowski, J., and Catterall, C.P. 2016. Slow recovery of tropical old-field rainforest regrowth and the value and limitations of active restoration. *Conserv. Biol.* 30(1):121-132.
- Shutteworth, C.M., Signorile, A.L., Everest, D.J., Duff, J.P., and Lurz, P.W.W. 2015. Assessing causes and significance of red squirrel (*Sciurus vulgaris*) mortality during regional population restoration: an applied conservation perspective. *Hystrix* 26(2):69-75.
- Simmons, B.L., Hallett, R.A., Sonti, N.F., Auyeung, D.S.N., and Lu, J.W.T. 2016. Long-term outcomes of forest restoration in an urban park. *Restor. Ecol.* 24(1):109-118.
- Sinclair, J.S., and Arnott, S.E. 2016. Strength in size not numbers: propagule size more important than number in sexually reproducing populations. *Biol. Invasions* 18(2):497-505.
- Singh, A., and Bahuguna, A. 2016. Molecular phylogeny of rediscovered Travancore flying squirrel (*Petinomys fuscocapillus*) and its conservation implications. *Curr. Sci.* 110(4):659-666.
- Singh, P., Nag, A., Parmar, R., Ghosh, S., Bhau, B.S., and Sharma, R.K. 2015. Genetic diversity and population structure of endangered *Aquilaria malaccensis* revealed potential for future conservation. *J. Genet.* 94(4):697-704.
- Singh, R., Krausman, P.R., Goyal, S.P., and Chauhan, N.S. 2015. Factors contributing to tiger losses in Ranthambhore Tiger Reserve, India. *Wildlife Soc. Bull.* 39(3):670-673.
- Skorupski, J. 2016. Nature conservation and invasion of the American mink (*Neovison vison*) in Poland - a critical analysis. *Sylvan* 160(1):79-87.
- Skov, H., Heinanen, S., Thaxter, C.B., Williams, A.E., Lohier, S., and Banks, A.N. 2016. Real-time species distribution models for conservation and management of natural resources in marine environments. *Mar. Ecol. Progr. Ser.* 542:221-234.
- Smith, C., Boughton, E.H., and Pierre, S. 2015. *Pomacea maculata* (Island Apple Snail) invasion in seasonal wetlands on Florida ranchland: association with plant-community structure and aquatic-predator abundance. *Southeast. Nat.* 14(3):561-576.
- Smith, F.A., Hammond, J.I., Balk, M.A., Elliott, S.M., Lyons, S.K., Pardi, M.I., Tomé, C.P., Wagner, P.J., and Westover, M.L. 2016. Exploring the influence of ancient and historic megaherbivore extirpations on the global methane budget. *Proc. Natl. Acad. Sci. USA* 113(4):874-879.
- Sobral-Souza, T., Francini, R.B., and Lima-Ribeiro, M.S. 2015. Species extinction risk might increase out of reserves: allowances for conservation of threatened butterfly *Actinote quadra* (Lepidoptera: Nymphalidae) under global warming. *Nat. Conservacao* 13(2):159-165.
- Sousa, R., Varandas, S., Teixeira, A., Ghamizi, M., Froufe, E., and Lopes-Lima, M. 2016. Pearl mussels (*Margaritifera marocana*) in Morocco: Conservation status of the rarest bivalve in African fresh waters. *Sci. Total Environ.* 547:405-412.
- Spake, R., van der Linde, S., Newton, A.C., Suz, L.M., Bidartondo, M.I., and Doncaster, C.P. 2016. Similar biodiversity of ectomycorrhizal fungi in set-aside plantations and ancient old-growth broadleaved forests. *Biol. Conserv.* 194:71-79.
- Springer, K. 2016. Methodology and challenges of a complex multi-species eradication in the sub-Antarctic and immediate effects of invasive species removal. *New Zeal. J. Ecol.* 40(2):273-278.
- Sreekar, R., Goodale, E., and Harrison, R.D. 2015. Flight initiation distance as behavioral indicator of hunting pressure: a case study of the Sooty-headed Bulbul (*Pycnonotus aurigaster*) in Xishuangbanna, SW China. *Trop. Conserv. Sci.* 8(2):505-512.
- Stapanian, M.A., Lewis, T.E., Palmer, C.J., and Amos, M.M. 2016. Assessing accuracy and precision for field and laboratory data: a perspective in ecosystem restoration. *Restor. Ecol.* 24(1):18-26.
- Steyn, H.M., and Van Wyk, A.E. 2016. Taxonomic notes on the shrublet species of *Acanthopsis* (Acanthaceae, tribe Acantheae), with two new species from South Africa. *Phytotaxa* 244(2):145-160.
- Stien, J., Strann, K.B., Jepsen, J.U., Frivoll, V., and Ims, R.A. 2016. Breeding persistence of Slavonian Grebe (*Podiceps auritus*) at long-term monitoring sites: predictors of a steep decline at the northern European range limit. *J. Ornithol.* 157(1):75-84.
- Suazo-Ortuño, I., Alvarado-Díaz, J., Mendoza, E., López-Toledo, L., Lara-Urbe, N., Márquez-Camargo, C., Paz-Gutiérrez, J.G., and Rangel-Orozco, J.D. 2015. High resilience of herpetofaunal communities in a human-modified tropical dry forest landscape in western Mexico. *Trop. Conserv. Sci.* 8(2):396-423.
- Sugau, J.B., and van der Ent, A. 2016. *Pittosporum peridotica* (Pittosporaceae), a new ultramafic obligate species restricted to Kinabalu Park (Sabah, Malaysia). *Bot. Stud.* 57:4, 1-7.
- Sugiura, S. 2016. Impacts of introduced species on the biota of an oceanic archipelago: the relative importance of competitive and trophic interactions. *Ecol. Res.* 31(2):155-164.
- Sunil, C.N., Prabhukumar, K.M., Kumar, V.V.N., Hareesh, V.S., and Baiju, E.C. 2015. *Justicia sivasadanii* (Acanthaceae): a striking new species from the Western Ghats, India. *Kew Bull.* 70(4):55.
- Sutton, N., Cho, S., and Armsworth, P.R. 2016. A reliance on agricultural land values in conservation planning alters the spatial distribution of priorities and overestimates the acquisition costs of protected areas. *Biol. Conserv.* 194:2-10.
- Svenning, J.C., Pedersen, P.B.M., Donlan, C.J., Ejrnæs, R., Faurby, S., Galetti, M., Hansen, D.M., Sandel, B., Sandom, C.J., Terborgh, J.W., and Vera, F.W.M. 2016. Science for a wilder Anthropocene: Synthesis and future directions for trophic rewilding research. *Proc. Natl. Acad. Sci. USA* 113(4):898-906.
- Swartz, M.T., Ferster, B., Vulinec, K., and Paulson, G. 2015. Measuring regal fritillary butterfly (*Speyeria idalia*) habitat requirements in south-central Pennsylvania: implications for



- the conservation of an imperiled butterfly. *Northeastern Nat.* 22(4):812-829.
- Sydenham, M.A.K., Moe, S.R., Stanescu-Yadav, D.N., Totland, Ø., and Eldegard, K. 2016. The effects of habitat management on the species, phylogenetic and functional diversity of bees are modified by the environmental context. *Ecol. Evol.* 6(4):961-973.
- Symes, W.S., Rao, M., Mascia, M.B., and Carrasco, L.R. 2016. Why do we lose protected areas? Factors influencing protected area downgrading, downsizing and degazettement in the tropics and subtropics. *Global Change Biol.* 22(2):656-665.
- Taylor, R. 2016. Early ecological research on rodents in New Zealand, 1946-1976: personal recollections. *New Zeal. J. Ecol.* 40(2):205-211.
- Taylor, S., and Kumar, L. 2016. Will climate change impact the potential distribution of a native vine (*Merremia peltata*) which is behaving invasively in the Pacific region? *Ecol. Evol.* 6(3):742-754.
- Teixeira, M.C., Mäder, G., Silva-Arias, G.A., Bonatto, S.L., and Freitas, L.B. 2016. Effects of past climate on *Passiflora actinia* (Passifloraceae) populations and insights into future species management in the Brazilian Atlantic forest. *Bot. J. Linn. Soc.* 180(3):348-364.
- Thapa, G.J., Wikramanayake, E., Jnawali, S.R., Oglethorpe, J., and Adhikari, R. 2016. Assessing climate change impacts on forest ecosystems for landscape-scale spatial planning in Nepal. *Curr. Sci.* 110(3):345-352.
- Theobald, E.J., Gabrielyan, H., and HilleRisLambers, J. 2016. Lilies at the limit: Variation in plant-pollinator interactions across an elevational range. *Am. J. Bot.* 103(2):189-197.
- Toivonen, M., Herzog, I., and Kuussaari, M. 2016. Community composition of butterflies and bumblebees in fallows: niche breadth and dispersal capacity modify responses to fallow type and landscape. *J. Insect Conserv.* 20(1):23-34.
- Tong, Y., Huang, Y.S., and Deng, Y.F. 2016. *Justicia weihongjinii*, a new species of Acanthaceae from Guangxi, China. *Phytotaxa* 246(2):127-136.
- Towns, D.R., Borrelle, S.B., Thoresen, J., Buxton, R.T., and Evans, A. 2016. Mercury Islands and their role in understanding seabird island restoration. *New Zeal. J. Ecol.* 40(2):235-249.
- Tozer, D.C. 2016. Marsh bird occupancy dynamics, trends, and conservation in the southern Great Lakes basin: 1996 to 2013. *J. Great Lakes Res.* 42(1):136-145.
- Traiperm, P., Norsangsri, M., and Gale, S.W. 2015. A taxonomic revision of the tribe Oryzeae (Poaceae) in Thailand. *Scienceasia* 41(6):363-376.
- Tsiamis, K., Salomidi, M., Kytinou, E., Issaris, Y., and Gerakaris, V. 2016. On two new records of rare *Cystoseira* taxa (Fucales, Phaeophyceae) from Greece (Eastern Mediterranean). *Bot. Mar.* 59(1):73-77.
- Turner, B.C., de Rivera, C.E., Grosholz, E.D., and Ruiz, G.M. 2016. Assessing population increase as a possible outcome to management of invasive species. *Biol. Invasions* 18(2):533-548.
- Udulutsch, R.G., Dias, P., and Souza, V.C. 2016. Rediscovery and new records of *Adenocalymma* (Bignoniaceae, Bignoniaceae) in Southeastern Brazil. *Phytotaxa* 245(4):281-288.
- Uezu, A., and Metzger, J.P. 2016. Time-lag in responses of birds to Atlantic Forest fragmentation: restoration opportunity and urgency. *PLoS ONE* 11(1):e0147909.
- Urošević, A., Tomović, L., Ajtić, R., Simović, A., and Džukić, G. 2016. Alterations in the reptilian fauna of Serbia: introduction of exotic and anthropogenic range expansion of native species. *Herpetozoa* 28(3-4):115-132.
- Urzedo, D.I., Vidal, E., Sills, E.O., Piña-Rodrigues, F.C.M., and Junqueira, R.G.P. 2016. Tropical forest seeds in the household economy: effects of market participation among three sociocultural groups in the Upper Xingu region of the Brazilian Amazon. *Environ. Conserv.* 43(1):13-23.
- Vallejos, M.A.V., Padial, A.A., and Vitale, J.R.S. 2016. Human-induced landscape changes homogenize Atlantic Forest bird assemblages through nested species loss. *PLoS ONE* 11(2):e0147058.
- van der Ent, A., van Balgooy, M., and van Welzen, P. 2016. *Actephila alankeri* (Phyllanthaceae): a new nickel hyperaccumulating plant species from localised ultramafic outcrops in Sabah (Malaysia). *Bot. Stud.* 57:6-8.
- van Schingen, M., Pham, C.T., Thi, H.A., Nguyen, T.Q., Bernardes, M., Bonkowski, M., and Ziegler, T. 2015. First ecological assessment of the endangered Crocodile Lizard, *Shinisaurus crocodilurus*, Ahl, 1930 in Vietnam: microhabitat characterization and habitat selection. *Herpetol. Conserv. Biol.* 10(3):948-958.
- Vasconcelos, A.C.O., and Ferreira, R.L. 2016. Description of two new species of *Charinus* Simon, 1892 from Brazilian caves with remarks on conservation (Arachnida: Amblypygi: Charinidae). *Zootaxa* 4072(2):185-202.
- Venter, J.A., and Conradie, W. 2015. A checklist of the reptiles and amphibians found in protected areas along the South African Wild Coast, with notes on conservation implications. *Koedoe* 57(1):1247.
- Vergara-Tabares, D.L., Badini, J., and Peluc, S.I. 2016. Fruiting phenology as a "triggering attribute" of invasion process: do invasive species take advantage of seed dispersal service provided by native birds? *Biol. Invasions* 18(3):677-687.
- Verhelst, P., Boets, P., Van Thuyne, G., Verreycken, H., Goethals, P.L.M., and Mouton, A.M. 2016. The distribution of an invasive fish species is highly affected by the presence of native fish species: evidence based on species distribution modelling. *Biol. Invasions* 18(2):427-444.
- Vieira, B.P. 2015. Population trends and conservation of the Mangrove Rail. *Rev. Bras. Ornitol.* 23(3):327-335.
- Vincent, J.R. 2016. Avoided deforestation: not a good measure of conservation impact. *J. Trop. For. Sci.* 28(1):1-3.
- Votsi, N.E.P., Zomeni, M.S., and Pantis, J.D. 2016. Evaluating the effectiveness of Natura 2000 network for wolf conservation: a case-study in Greece. *Environ. Manage.* 57(2):257-270.
- Wallis, B., Fodrie, F.J., Nieuwhof, S., Jewell, O.J.D., Herman, P.M.J., and Ysebaert, T. 2016. Guidelines for evaluating performance of oyster habitat restoration should include tidal emersion: reply to Baggett et al. *Restor. Ecol.* 24(1):4-7.
- Wang, J.Z., Yang, Y.T., Yang, F., Li, Y.L., Li, L.J., Lin, D.R., He, T.T., Liang, B., Zhang, T., Lin, Y., Li, P., and Liu, W.H. 2016. A framework for the assessment of the spatial and temporal patterns of threatened coastal delphinids. *Sci. Rep.* 6:19883.
- Wang, S., and Niu, S.K. 2016. Do biological invasions by *Eupatorium adenophorum* increase forest fire severity? *Biol. Invasions* 18(3):717-729.
- Warner, L.A., Purchase, C.F., and Veinott, G. 2015. Seasonal variation in estuarine habitat use by native Atlantic salmon (*Salmo salar*) and invasive brown trout (*Salmo trutta*) in southeast Newfoundland. *Northeastern Nat.* 22(2):424-436.

- Wauters, N., Dekoninck, W., Hendrickx, F., Herrera, H.W., and Fournier, D. 2016. Habitat association and coexistence of endemic and introduced ant species in the Galápagos Islands. *Ecol. Entomol.* 41(1):40-50.
- Wayne, A.F., Maxwell, M.A., Ward, C.G., Vellios, C.V., Williams, M.R., and Pollock, K.H. 2016. The responses of a critically endangered mycophagous marsupial (*Bettongia penicillata*) to timber harvesting in a native eucalypt forest. *Forest Ecol. Manag.* 363:190-199.
- Wear, S.L., and Thurber, R.V. 2015. Sewage pollution: mitigation is key for coral reef stewardship. *Year Ecol. Conserv. Biol.* 1355:15-30.
- Weerawardhena, S.R., and Russell, A.P. 2015. Diversity and habitat occupancy of amphibians of the Knuckles Mountain Forest Range World Heritage Site, Sri Lanka, and related conservation issues. *Russ. J. Herpetol.* 22(1):11-22.
- Wenger, A.S., Williamson, D.H., da Silva, E.T., Ceccarelli, D.M., Browne, N.K., Petus, C., and Devlin, M.J. 2016. Effects of reduced water quality on coral reefs in and out of no-take marine reserves. *Conserv. Biol.* 30(1):142-153.
- Werema, C., and Howell, K.M. 2016. Seasonal variation in diversity and abundance of understorey birds in Bunduki Forest Reserve, Tanzania: evaluating the conservation value of a plantation forest. *Ostrich* 87(1):89-93.
- Wiederholt, R., Trainor, A.M., Michel, N., Shirey, P.D., Swaisgood, R.R., Tallamy, D., and Cook-Patton, S.C. 2015. The face of conservation responding to a dynamically changing world. *Integr. Zool.* 10(5):436-452.
- Wilcox, T.M., McKelvey, K.S., Young, M.K., Sepulveda, A.J., Shepard, B.B., Jane, S.F., Whiteley, A.R., Lowe, W.H., and Schwartz, M.K. 2016. Understanding environmental DNA detection probabilities: a case study using a stream-dwelling char *Salvelinus fontinalis*. *Biol. Conserv.* 194:209-216.
- Williams, S.T., Williams, K.S., Joubert, C.J., and Hill, R.A. 2016. The impact of land reform on the status of large carnivores in Zimbabwe. *PeerJ* 4:e1537.
- Wilman, E.A., and Wilman, E.N. 2016. Modeling outcomes of approaches to sustained human and snow leopard coexistence. *Conserv. Biol.* 30(1):50-58.
- Wilson, R.S., Hardisty, D.J., Epanchin-Niell, R.S., Runge, M.C., Cottingham, K.L., Urban, D.L., Maguire, L.A., Hastings, A., Mumby, P.J., and Peters, D.P.C. 2016. A typology of time-scale mismatches and behavioral interventions to diagnose and solve conservation problems. *Conserv. Biol.* 30(1):42-49.
- Wood, P.B., and Ammer, F.K. 2015. Grasshopper sparrow reproductive success and habitat use on reclaimed surface mines varies by age of reclamation. *Wildlife Soc. Bull.* 39(3):512-520.
- Wrange, A.L., Charrier, G., Thonig, A., Rosenblad, M.A., Blomberg, A., Havenhand, J.N., Jonsson, P.R., and André, C. 2016. The story of a hitchhiker: population genetic patterns in the invasive barnacle *Balanus (Amphibalanus) improvisus* Darwin 1854. *PLoS ONE* 11(1):e0147082.
- Wright, J.H., Hill, N.A.O., Roe, D., Rowcliffe, J.M., Kumpel, N.F., Day, M., Booker, F., and Milner-Gulland, E.J. 2016. Reframing the concept of alternative livelihoods. *Conserv. Biol.* 30(1):7-13.
- Xu, M., Mu, X.D., Dick, J.T.A., Fang, M., Gu, D.G., Luo, D., Zhang, J.E., Luo, J.R., and Hu, Y.C. 2016. Comparative functional responses predict the invasiveness and ecological impacts of alien herbivorous snails. *PLoS ONE* 11(1):e0147017.
- Yamada, T., Watanabe, K., Okuda, T., Sugimoto, T., and Azlin, Y.N. 2016. Growth and survival of trees planted in an oil palm plantation: implications for restoration of biodiversity. *J. Trop. For. Sci.* 28(1):97-105.
- Yamada, T., Yoshida, S., Hosaka, T., and Okuda, T. 2016. Logging residues conserve small mammalian diversity in a Malaysian production forest. *Biol. Conserv.* 194:100-104.
- Yeboah, D., Chen, H.Y.H., and Kingston, S. 2016. Tree species richness decreases while species evenness increases with disturbance frequency in a natural boreal forest landscape. *Ecol. Evol.* 6(3):842-850.
- Yin, Y.Y., Tang, Q.H., Wang, L.X., and Liu, X.C. 2016. Risk and contributing factors of ecosystem shifts over naturally vegetated land under climate change in China. *Sci. Rep.* 6:20905.
- Yokochi, K., Kennington, W.J., and Bencini, R. 2016. An endangered arboreal specialist, the western ringtail possum (*Pseudocheirus occidentalis*), shows a greater genetic divergence across a narrow artificial waterway than a major road. *PLoS ONE* 11(1):e0146167.
- Young, M.A.L., Foale, S., and Bellwood, D.R. 2016. The last marine wilderness: spearfishing for trophy fishes in the Coral Sea. *Environ. Conserv.* 43(1):90-95.
- Younger, J.L., Emmerson, L.M., and Miller, K.J. 2016. The influence of historical climate changes on Southern Ocean marine predator populations: a comparative analysis. *Global Change Biol.* 22(2):474-493.
- Yuan, W.S., Hoffman, E.A., and Walters, L.J. 2016. Effects of non-native invertebrates on two life stages of the native eastern oyster *Crassostrea virginica*. *Biol. Invasions* 18(3):689-701.
- Zepeda-Paulo, F., Dion, E., Lavandero, B., Mahéo, F., Outreman, Y., Simon, J.C., and Figueroa, C.C. 2016. Signatures of genetic bottleneck and differentiation after the introduction of an exotic parasitoid for classical biological control. *Biol. Invasions* 18(2):565-581.
- Zhang, H.Y., Rutherford, E.S., Mason, D.M., Breck, J.T., Wittmann, M.E., Cooke, R.M., Lodge, D.M., Rothlisberger, J.D., Zhu, X.H., and Johnson, T.B. 2016. Forecasting the impacts of silver and bighead carp on the Lake Erie food web. *Trans. Am. Fish. Soc.* 145(1):136-162.
- Zhang, W., Luo, Z.H., Zhao, M., and Wu, H. 2015. High genetic diversity in the endangered and narrowly distributed amphibian species *Leptobranchium leishanense*. *Integr. Zool.* 10(5):465-481.
- Zhao, Q., Silverman, E., Fleming, K., and Boomer, G.S. 2016. Forecasting waterfowl population dynamics under climate change: does the spatial variation of density dependence and environmental effects matter? *Biol. Conserv.* 194:80-88.
- Zhu, H., Yong, C., Zhou, S.S., Wang, H., and Yan, L.C. 2015. Vegetation, floristic composition and species diversity in a tropical mountain nature reserve in southern Yunnan, SW China, with implications for conservation. *Trop. Conserv. Sci.* 8(2):528-546.
- Zinenko, O., Avci, A., Spitzenberger, F., Tupikov, A., Shiryaev, K., Bozkurt, E., Ilgaz, Ç., and Stümpel, N. 2016. Rediscovered and critically endangered: *Vipera anatolica* EISELT & BARAN, 1970, of the western Taurus Mountains (Turkey), with remarks on its ecology. *Herpetozoa* 28(3-4):141-148.
- Żmihorski, M., Kotowska, D., Berg, Å., and Pärt, T. 2016. Evaluating conservation tools in Polish grasslands: the occurrence of birds in relation to agri-environment schemes and Natura 2000 areas. *Biol. Conserv.* 194:150-157.