

CONTENTS

- The first confirmed decline of a delphinid population from Brazilian waters: 2000–2015 abundance of *Sotalia guianensis* in Guanabara Bay, South-eastern Brazil
A.F. Azevedo, R.R. Carvalho, M. Kajin, M. Van Sluys, T.L. Bisi, H.A. Cunha and J. Lailson-Brito Jr. (Rio de Janeiro, Brazil)
- Co-benefits of climate mitigation: Counting statistical lives or life-years?
M.S. Andersen (Aarhus C., Denmark)
- Epilithon $\delta^{15}\text{N}$ signatures indicate the origins of nitrogen loading and its seasonal dynamics in a volcanic Lake
F. Federico, C. Davide, C. Giulio, C. Edoardo, J.-L. Giovanna, R. Loreto and C.M. Letizia (Rome, Italy)
- Soil nitrate accumulation explains the nonlinear responses of soil CO_2 and CH_4 fluxes to nitrogen addition in a temperate needle-broadleaved mixed forest
J. Geng, S. Cheng, H. Fang, G. Yu, X. Li, G. Si, S. He and G. Yu (Beijing, China)
- Anthropogenic stressors and riverine fish extinctions
M.S. Dias (Brasília, DF, Brazil), P.A. Tedesco, B. Hugueny, C. Jézéquel (Narbonne, Toulouse, France), O. Beauchard (Yerseke, The Netherlands), S. Brosse and T. Oberdorff (Narbonne, Toulouse, France)
- Swamp rabbits as indicators of wildlife habitat quality in bottomland hardwood forest ecosystems
E.M. Hillard, C.K. Nielsen and J.W. Groninger (Carbondale, USA)
- Effects of seawater acidification and salinity alterations on metabolic, osmoregulation and oxidative stress markers in *Mytilus galloprovincialis*
R. Freitas, L. De Marchi, M. Bastos, A. Moreira, C. Velez, S. Chiesa (Aveiro, Portugal), F.J. Wrona (Victoria, BC, Canada), E. Figueira and A.M.V.M. Soares (Aveiro, Portugal)
- Expert-based ecosystem services capacity matrices: Dealing with scoring variability
C.S. Campagne, P. Roche, F. Gosselin, L. Tschanz and T. Tatoni (Marseille, France)
- Imputing plant community classification from associated forest inventory and physiographic data in Minnesota, USA
D.C. Wilson and A.R. Ek (Minnesota, Cleveland Ave. N., Paul, MN, USA) 73
- 1 Concave trade-off curves between crop production and taxonomic, functional and phylogenetic diversity of birds
C. Dross, F. Jiguet and M. Tichit (Paris, France) 83
- 11 From the farm to the agri-food system: A multiple criteria framework to evaluate extended multi-functional value
F.F. Fagioli, L. Rocchi, L. Paolotti (Italy), R. Słowiński (Perugia, Poland) and A. Boggia (Poznań, Italy) 91
- 19 Temperature thresholds of opportunistic annelids used as benthic indicators of aquaculture impact in Newfoundland (Canada)
F. Salvo, S.C. Dufour and D. Hamoutene (Newfoundland, Canada) 103
- 28 Developing environmental performance indicators for food and beverage processors in the USA
M.G. Fikru (Rolla, MO, USA) 106
- Evaluation of models capacity to predict size spectra parameters in ecosystems under stress
R.M. dos Santos (Nijmegen, Gelderland, Netherlands and Bahia, Salvador, Brazil), J.P. Hilbers and A.J. Hendriks (Netherlands) 114
- 37 Water use efficiency in response to interannual variations in flux-based photosynthetic onset in temperate deciduous broadleaf forests
J. Jin, W. Zhan, Y. Wang, B. Gu, W. Wang, H. Jiang, X. Lu and X. Zhang (Nanjing, Jiangsu, Hangzhou, China) 122
- 54 Habitat structure and neighbor linear features influence more carabid functional diversity in olive groves than the farming system
P. Martins da Silva, J. Oliveira, A. Ferreira, F. Fonseca, J.A. Pereira, C.A.S. Aguiar, A.R.M. Serrano, J.P. Sousa and S.A.P. Santos (Coimbra, Campo Grande, Bragança, Portugal) 128
- 63

- Measuring the synanthropy of species and communities to monitor the effects of urbanization on biodiversity
A. Guetté, P. Gaüzère, V. Devictor, F. Jiguet and L. Godet (Rue Buffon, Paris, France)
- Feasibility assessment of active and passive acoustic monitoring of sika deer populations
H. Enari, H. Enari, K. Okuda, M. Yoshita, T. Kuno and K. Okuda (Tsuruoka, Yamagata, Fukushima, Ueda, Morioka, Iwate, Japan)
- Quantitative hydrological preferences of benthic stream invertebrates in Germany
K. Kakouei, J. Kiesel, J. Kail, M. Pusch and S.C. Jähnig (Berlin, Essen, Germany)
- Development of remote sensing indicators for mapping episodic die-off of an invasive annual grass (*Bromus tectorum*) from the Landsat archive
P.J. Weisberg, T.E. Dilts, O.W. Baughman, S.E. Meyer, E.A. Leger, K.J. Van Gunst and L. Cleaves (Nevada, Reno, NV, Provo, UT, USA)
- Assessing the surface water status in Pannonian ecoregion by the water quality index model
D. Tomas, M. Čurlin and A.S. Marić (Ulica grada Vukovara, Zagreb, Pierottijeva 6, Rockefellerova 4, Croatia)
- Site-occupancy modelling: A new approach to assess sensitivity of indicator species
A. Cortelezzi, L. Armendáriz, M.V. Simoy, C.B. Marinelli, R.E. Cepeda, A.R. Capitulo and I. Berkunsky (Tandil, Buenos Aires, La Plata, Argentina)
- Assessment of forest recovery at Wu-Ling fire scars in Taiwan using multi-temporal Landsat imagery
C. Chompuchan (Xingda Rd., South Dist., Taichung, Taiwan and Malaiman Rd., Kamphaeng Saen Dist., Nakhon Pathom, Thailand) and C.-Y. Lin (Xingda Rd., South Dist., Taichung, Taiwan)
- Development of an epiphyte indicator of nutrient enrichment: A critical evaluation of observational and experimental studies
W.G. Nelson (Newport, OR, USA)
- Ensuring objectivity by applying the Mauri Model to assess the post-disaster affected environments of the 2011 MV Rena disaster in the Bay of Plenty, New Zealand
T.N. Faau, T.K.K.B. Morgan and D.C.H. Hikuroa (Wynyard St, Auckland, New Zealand)
- Fluctuating asymmetry of leaves is a poor indicator of environmental stress and genetic stress by inbreeding in *Silene vulgaris*
T.M. Sandner and D. Matthies (Marburg, Germany)
- Long-term trends in abundance of green sea turtles (*Chelonia mydas*) assessed by non-lethal capture rates in a coastal fishery
B.M.G. Silva, L. Bugoni, B.A.D.L. Almeida, B.B. Giffoni, F.S. Alvarenga, L.S. Brondizio and J.H. Becker (Itaguá, Ubatuba, SP, Itália, Rio Grande, RS, Brazil)
- An assessment framework for measuring agroecosystem health
E.E. Peterson, S.A. Cunningham, M. Thomas, S. Collings, G.D. Bonnett and B. Harch (Brisbane, Canberra, Glen Osmond, Floreat, Carmody Rd., St. Lucia, Australia)
- An evolutionary modeling approach for designing a contractual REDD+ payment scheme
J. Sheng, Y. Wu, M. Zhang and Z. Miao (Ningliu Road, Nanjing, Taizhou, China)
- Otolith biochronology as an indicator of marine fish responses to hydroclimatic conditions and ecosystem regime shifts
S. Smoliński and Z. Mirny (Kołłątaja, Gdynia, Poland)
- 139 Influence of the resolution of forest cover maps in evaluating fragmentation and connectivity to assess habitat conservation status
A. Hernando, J. Velázquez (Ciudad Universitaria, Madrid, Avila, Spain), R. Valbuena (Joensuu, Finland), M. Legrand and A. García-Abril (Ciudad Universitaria, Madrid, Avila, Spain)
- 155 The Benthic Invertebrates Floodplain Index – Extending the assessment approach
A. Funk, D. Trauner, W. Reckendorfer and T. Hein (Vienna, Lunz am See, Austria)
- 163 Sustainable mobility indicators for Indian cities: Selection methodology and application
D. Jain and G. Tiwari (Hauz Khas, New Delhi India)
- 173 Environmental drivers of mussels flesh yield in a coastal upwelling system
X.A. Álvarez-Salgado, U. Labarta, V. Vinseiro and M.J. Fernández-Reiriz (Eduardo Cabello, Vigo, Spain)
- 182 Environmental-economic benefits and trade-offs on sustainably certified coffee farms
J. Haggard (Chatham Maritime, UK) G. Soto, F. Casanoves and E.d.M. Virginio (CATIE, Turrialba, Costa Rica)
- 191 Sustainable livelihood framework-based indicators for assessing climate change vulnerability and adaptation for Himalayan communities
R. Pandey, S.K. Jha (Dehradun, Srinagar, India), J.M. Alatalo (Doha, Qatar), K.M. Archie (Wellington, New Zealand) and A.K. Gupta (Dehradun, Srinagar, India)
- 196 Increased sampled volume improves *Microcystis aeruginosa* complex (MAC) colonies detection and prediction using Random Forests
A.M. Segura, C. Piccini, L. Nogueira, I. Alcántara, D. Calliari and C. Kruk (CURE Rocha, MEC, Uruguay)
- 207 Estimating aboveground herbaceous plant biomass via proxies: The confounding effects of sampling year and precipitation
G. Ónodi, M. Kertész, E. Kovács-Láng, P. Ódor, Z. Botta-Dukát, B. Lhotsky, S. Barabás, A. Mojzes and G. Kröel-Dulay (Ménési, Alkotmány Vácrtót, Tihany, Tihany, Klebelsberg Kuno u. 3, Hungary)
- 228 Effect of thermal stress on metabolic and oxidative stress biomarkers of *Hoplosternum littorale* (Teleostei, Callichthyidae)
A. Rossi, C. Bacchetta and J. Cazenave (Santa Fe, Argentina)
- 247 Interannual patterns of the large free-living nematode assemblages in the Mexican Exclusive Economic Zone, NW Gulf of Mexico after the Deepwater Horizon oil spill
L.A. Soto, D.L. Salcedo, K. Arvizu and A.V. Botello (México, CDMX, Mexico)
- 254 Leaf litter decomposition as a bioassessment tool of acidification effects in streams: Evidence from a field study and meta-analysis
V. Ferreira (Coimbra, Portugal) and F. Guérol (Metz, France)
- 265 Management of ecosystem services in mountain forests: Review of indicators and value functions for model based multi-criteria decision analysis
C. Blattert, R. Lemm, O. Thees (Zuercherstrasse, Birmensdorf, Switzerland), M.J. Lexer (Vienna, Austria) and M. Hanewinkel (Freiburg, Germany)
- 276