

CONTENTS

Special Issue: Biodiversity Monitoring

Biodiversity observation from local to global R.H.G. Jongman (Wageningen, The Netherlands)	1
Priorities for biodiversity monitoring in Europe: A review of supranational policies and a novel scheme for integrative prioritization K. Henle, B. Bauch, M. Auliya (Leipzig, Germany), M. Külvik (Tartu, Estoniac), G. Pe'er, D.S. Schmeller (Leipzig, Germany) and E. Framstad (Oslo, Norway)	5
The significance of habitats as indicators of biodiversity and their links to species R.G.H. Bunce (Wageningen, The Netherlands and Tartu, Estonia), M.M.B. Bogers (Wageningen, The Netherlands), D. Evans (Paris, France), L. Halada (Nitra, Slovakia), R.H.G. Jongman, C.A. Mucher (Wageningen, The Netherlands), B. Bauch (Leipzig, Germany), G. de Blust (Brussels, Belgium), T.W. Parr (Lancaster, UK) and L. Olsvig-Whittaker (Jerusalem, Israel)	19
Environmental stratifications as the basis for national, European and global ecological monitoring M.J. Metzger (Edinburgh, UK), D.J. Brus (The Netherlands), R.G.H. Bunce (Tartu, Estonia), P.D. Carey (UK), J. Gonçalves, J.P. Honrado (Portugal), R.H.G. Jongman (The Netherlands), A. Trabucco (Sassari, Italy and Leuven, Belgium) and R. Zomer (China)	26
Surveillance of habitats and plant diversity indicators across a regional gradient in the Iberian Peninsula M. Ortega (Madrid, Spain), C. Guerra (Portugal and Évora, Portugal), J.P. Honrado (Porto, Portugal), M.J. Metzger (Edinburgh, UK), R.G.H. Bunce (Estonia and Wageningen, The Netherlands) and R.H.G. Jongman (Wageningen, The Netherlands).....	36
Remote sensing for conservation monitoring: Assessing protected areas, habitat extent, habitat condition, species diversity, and threats H. Nagendra (Bangalore, India), R. Lucas (Ceredigion, UK), J.P. Honrado (Porto, Portugal), R.H.G. Jongman (Wageningen, The Netherlands), C. Tarantino, M. Adamo and P. Mairota (Bari, Italy)	45
Remote sensing based ecosystem state assessment in the Sandveld Region, South Africa M. Lück-Vogel, P.J. O'Farrell and W. Roberts (Stellenbosch, South Africa)	60
Quantifying structure of Natura 2000 heathland habitats using spectral mixture analysis and segmentation techniques on hyperspectral imagery C.A. Múcher, L. Kooistra , M. Vermeulen (Wageningen, The Netherlands), J.V. Borre (Brussels, Belgium), B. Haest (Mol, Belgium) and R. Haveman (Wageningen, The Netherlands).....	71
Using landscape structure to develop quantitative baselines for protected area monitoring P. Mairota (Bari, Italy), B. Cafarelli (Foggia, Italy), L. Boccaccio, V. Leronni, R. Labadessa (Bari, Italy), V. Kosmidou (Thessaloniki, Greece) and H. Nagendra (Bangalore, India).....	82
The use of medium point density LiDAR elevation data to determine plant community types in Baltic coastal wetlands R.D. Ward, N.G. Burnside, C.B. Joyce (Brighton, UK) and K. Sepp (Tartu, Estonia)	96
Field identification of habitats directive Annex I habitats as a major European biodiversity indicator R.G.H. Bunce (Wageningen, The Netherlands and Tartu, Estonia), M.M.B. Bogers (Wageningen, The Netherlands), D. Evans (Paris, France) and R.H.G. Jongman (Wageningen, The Netherlands)	105

Earthworms, spiders and bees as indicators of habitat quality and management in a low-input farming region–A whole farm approach A. Kovács-Hostyánszki (Vácrátót, Hungary), Z. Elek (Pázmány Péter sétány, Hungary and Baross utca, Hungary), K. Balázs, C. Centeri, E. Falusi (Gödöllő, Hungary), P. Jeanneret (Zurich, Switzerland), K. Penksza, L. Podmaniczky (Gödöllő, Hungary), O. Szalkovszki (Debrecen, Hungary) and A. Báldi (Vácrátót, Hungary)	111
Monitoring wildlife abundance and diversity with infra-red camera traps in Guanyinshan Nature Reserve of Shaanxi Province, China X. Liu, P. Wu (Beijing, China), M. Songer (Front Royal, VA, USA), Q. Cai, X. He, Y. Zhu (Shaanxi, China) and X. Shao (Beijing, China).	121
Changes and interactions between forest landscape connectivity and burnt area in Spain C. Martín-Martín (Madrid, Spain), R.G.H. Bunce (Tartu, Estonia and Wageningen, The Netherlands), S. Saura and R. Elena-Rosselló (Madrid, Spain)	129
A national approach for mapping and quantifying habitat-based biodiversity metrics across multiple spatial scales K.G. Boykin (Las Cruces, NM, USA), W.G. Kepner, D.F. Bradford (Las Vegas, NV, USA), R.K. Guy, D.A. Kopp, A.K. Leimer, E.A. Samson, N.F. East (Las Cruces, NM, USA), A.C. Neale (Las Vegas, NV, USA) and K.J. Gergely (Boise, ID, USA).	139
Can biodiversity monitoring schemes provide indicators for ecosystem services? I.R. Geijzendorffer (Wageningen, The Netherlands and Aix en Provence, France) and P.K. Roche (Aix en Provence, France)	148