Coastal Conservation

Coastal ecosystems are centers of high biological productivity, but their conservation is often threatened by numerous and complex environmental factors. Citing examples from the major littoral habitats worldwide, such as sandy beaches, salt marshes, and mangrove swamps, this text characterizes the biodiversity of coastline environments and highlights important aspects of their maintenance and preservation, aided by the analysis of key representative species.

Leaders in the field provide reviews of the foremost threats to coastal networks, including the effects of climate change, invasive species, and major pollution incidents such as oil spills. Further discussion underscores the intricacies of measuring and managing coastline species in the field, taking into account the difficulties in quantifying biodiversity loss due to indirect cascading effects and trophic skew. Synthesizing the current state of species richness with present and projected environmental pressures, the book ultimately establishes a research agenda for implementing and improving conservation practices moving forward.

Brooke Maslo is Assistant Professor in the Department of Ecology, Evolution, and Natural Resources at Rutgers University in New Jersey. Working in applied conservation biology, her research focuses on evidence-based strategies for the conservation of threatened and endangered species, particularly shorebirds.

Julie L. Lockwood is Professor and Director of the Graduate Program in Ecology and Evolution at Rutgers University. Her research interests emphasize how species invasions and extinctions combine to shape present-day biodiversity patterns, with a focus on the dynamics of small populations.
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Coastal Conservation

Edited by

BROOKE MASLO AND JULIE L. LOCKWOOD
Rutgers University, New Jersey, USA

Julie L. Lockwood dedicates this book to Tabby, Henry, and Tanner Fenn.
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Contributors

BRENDA E. BALLACHEY US Geological Survey, Alaska Science Center, Anchorage, AK, USA

JAMES L. BODKIN US Geological Survey, Alaska Science Center, Anchorage, AK, USA

ANNETTE C. BRODERICK Centre for Ecology and Conservation, College of Life and Environmental Sciences, University of Exeter, Cornwall Campus, Penryn, UK

AUGUSTO CARDONI Instituto de Investigaciones Marinas y Costeras (IIMyC), Consejo Nacional de Investigaciones Científicas y Técnica, Facultad de Ciencias Exactas y Naturales Universidad Nacional de Mar del Plata, Mar del Plata, Argentina

KENT E. CARPENTER IUCN Species Programme Marine Biodiversity Unit, Global Marine Species Assessment, Biological Sciences, Dominion University, Norfolk, VA, USA

LEANNE C. CULLEN-UNSWORTH Sustainable Places Research Institute, Cardiff University, Cardiff, Wales, UK

FARID DAHDOUH-GUEBAS Laboratoire d’Écologie des Systèmes et Gestion des Ressources, Département de Biologie des Organismes, Faculté des Sciences, Université Libre de Bruxelles – ULB, Campus de la Plaine, Bruxelles, Belgium; Laboratory of Plant Biology and Nature Management, Department of Biology – Faculteit Wetenschappen, Bio-ingenieurswetenschappen, Vrije Universiteit Brussel – VUB, Brussels, Belgium

AMANDA D. DEY 109 Market Lane, Greenwich, NJ 08323, USA

JENIFER E. DUGAN Marine Science Institute, University of California, Santa Barbara, CA, USA
JOANNA C. ELLISON School of Geography and Environmental Studies, University of Tasmania, Launceston, TAS, Australia

BRUNO J. ENS SOVON Dutch Centre for Field Ornithology, SOVON-Texel, Den Burg, Texel, The Netherlands

DAN ESLER US Geological Survey, Alaska Science Center, Anchorage, AK, USA

XIAOJING GAN Ecology Group, Massey University, Palmerston North, New Zealand

MATTHEW H. GODFREY North Carolina Wildlife Resources Commission, Beaufort, NC, USA; Nicholas School of Environment and Earth Sciences, Duke University Marine Lab, Beaufort, NC, USA

BRENDAN J. GODLEY Centre for Ecology and Conservation, College of Life and Environmental Sciences, University of Exeter, Cornwall Campus, Penryn, UK

RUSSELL GREENBERG Migratory Bird Center, Smithsonian Conservation Biology Institute, National Zoological Park, Washington, DC, USA

ROBERT A. R. GULDEMOND Conservation Ecology Research Unit, Department of Zoology and Entomology, University of Pretoria, Hatfield, South Africa

LINDA HARRIS Department of Zoology, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa

LUCY A. HAWKES Centre for Ecology and Conservation, College of Life and Environmental Sciences, University of Exeter, Cornwall Campus, Penryn, UK

DAVID M. HUBBARD Marine Science Institute, University of California, Santa Barbara, CA, USA

JUAN PABLO ISACCH Instituto de Investigaciones Marinas y Costeras (IIMyC), Consejo Nacional de Investigaciones Científicas y Técnica, Facultad de Ciencias Exactas y Naturales Universidad Nacional de Mar del Plata, Mar del Plata, Argentina

ALAN R. JONES Division of Invertebrates, The Australian Museum, Sydney, NSW, Australia
List of contributors

NICO E. KOEDAM  Laboratory of Plant Biology and Nature Management, Department of Biology, Faculty of Sciences and Bioengineering Sciences, Vrije Universiteit Brussel – VUB, Brussels, Belgium

KEES KOFFIJBERG  SOVON Dutch Centre for Field Ornithology, Nijmegen, The Netherlands

MARIANO LASTRA  Department of Ecology and Animal Biology, Faculty of Marine Science, University of Vigo, Vigo, Spain

JULIE L. LOCKWOOD  Ecology, Evolution and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

RICHARD LOYN  Arthur Rylah Institute for Environmental Research, Heidelberg, VIC, Australia

ANTON MCLACHLAN  University of Sydney, Sydney, NSW, Australia

ILYA M. D. MACLEAN  Environment and Sustainability Institute, College of Life and Environmental Sciences, University of Exeter, Cornwall Campus, Penryn, UK

BROOKE MASLO  Ecology, Evolution and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

CRAIG O. MATKIN  North Gulf Oceanic Society, Homer, AK, USA

RONEL NEL  Department of Zoology, Nelson Mandela Metropolitan University, Port Elizabeth, South Africa

LAWRENCE J. NILES  Conserve Wildlife Foundation of New Jersey, Trenton, NJ, USA

PIETER I. OLIVIER  Conservation Ecology Research Unit, Department of Zoology and Entomology, University of Pretoria, Hatfield, South Africa

CHARLES H. PETERSON  Institute of Marine Sciences, University of North Carolina, Chapel Hill, Morehead City, NC, USA

BETH A. POLIDORO  IUCN Species Survival Commission/Marine Biodiversity Unit, Global Marine Species Assessment, Biological Sciences, Dominion University, Norfolk, VA, USA; School of Mathematics and Natural Sciences, New College of
List of contributors

Interdisciplinary Arts and Sciences, Arizona State University, Phoenix, AZ, USA

STANLEY D. RICE National Marine Fisheries Service, Auke Bay Laboratory, Juneau, AK, USA

ORIN J. ROBINSON Ecology, Evolution and Natural Resources, Rutgers, The State University of New Jersey, New Brunswick, NJ, USA

FELICITA SCAPINI Department of Biology, University of Florence, Firenze, Italy

THOMAS A. SCHLACHER Faculty of Science, Health and Education, The University of the Sunshine Coast, Maroochydore, QLD, Australia

DAVID S. SCHOEMAN Faculty of Science, Health and Education, The University of the Sunshine Coast, Maroochydore, QLD, Australia

RICHARD K.F. UNSWORTH Centre for Sustainable Aquatic Research, College of Science, Swansea University, Swansea, Wales, UK

RUDI J. VAN AARDE Conservation Ecology Research Unit, Department of Zoology and Entomology, University of Pretoria, Hatfield, South Africa

MICHAEL A. WESTON School of Life and Environmental Sciences, Deakin University, Burwood, VIC, Australia

MATTHEW J. WITT Environment and Sustainability Institute, University of Exeter, Cornwall Campus, Penryn, UK

JEAN W.H. YONG Life Sciences, Singapore University of Technology and Design, Singapore
Abbreviations

ARM     Adaptive Resource Management
ASMFC    Atlantic States Marine Fisheries Commission
BEF     biodiversity–ecosystem function
CA      Conditioned Aversion
CPUE    catch per unit effort
CWS     Canadian Wildlife Service
DMS     dimethylsulfide
EFH     essential fish habitat
ENSO    El Nino Southern Oscillation
IOCB    Indian Ocean Coastal Belt
IUCN    International Union for Conservation of Nature
LAZ     littoral active zone
MLLW    mean lower low water
MSX     multinucleated sphere X
NGO     non-governmental organization
ORV     off-road vehicle
PAH     polycyclic aromatic hydrocarbon
PWS     Prince William Sound
SAV     submerged aquatic vegetation
SESA    southeastern South America
TEV     Total Economic Value
TRT     Transitional Range of Temperatures
TSD     temperature-dependent sex determination
USFWS   US Fish and Wildlife Service
WHSRN   Western Hemisphere Shorebird Reserve Network