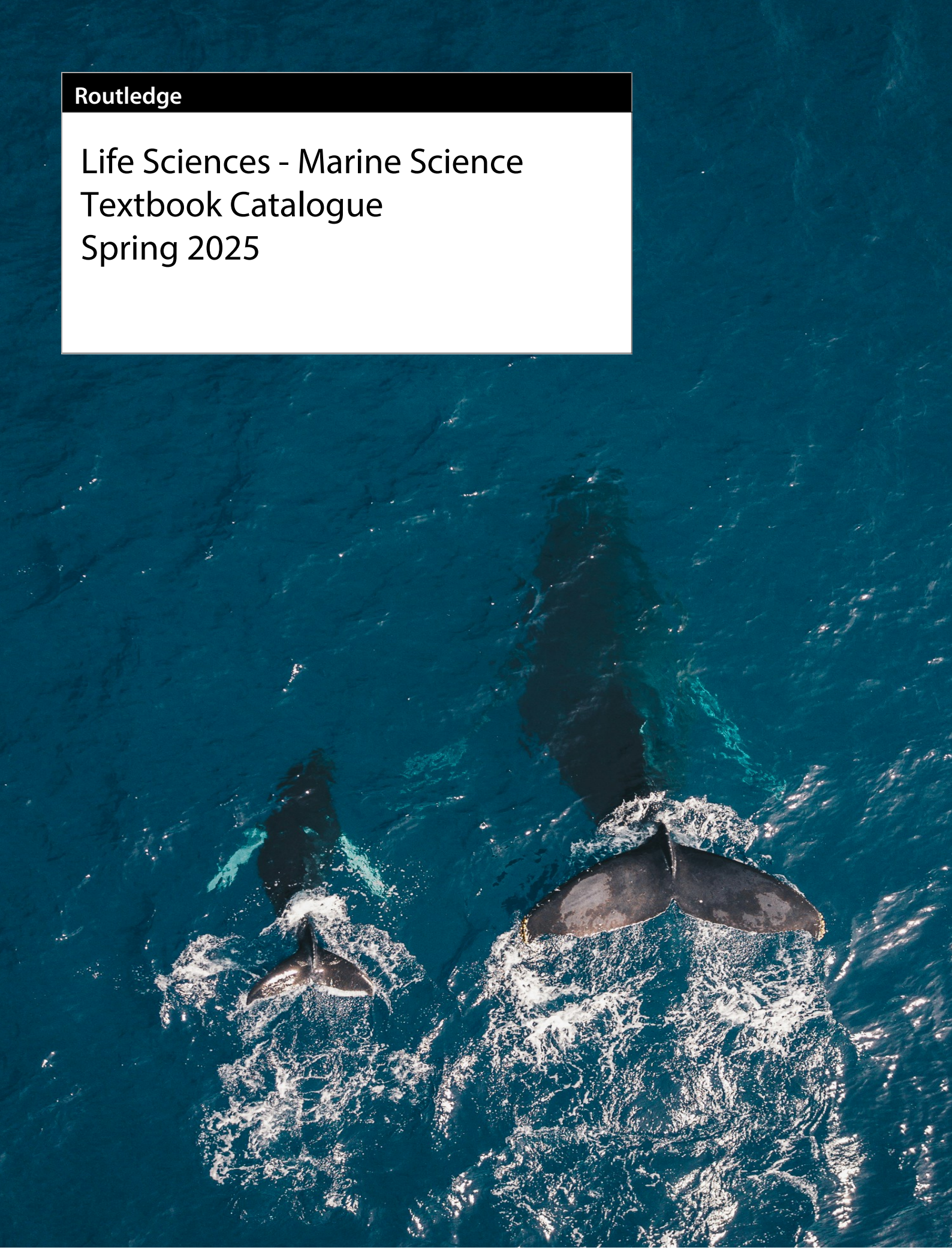
Routledge

Life Sciences - Marine Science Textbook Catalogue Spring 2025



Routledge
Taylor & Francis Group

www.routledge.com

Welcome

Welcome to the Taylor and Francis Life Sciences - Marine Science Textbook Catalogue.

eBooks

We have over 50,000 eBooks available across the Humanities, Social Sciences, Behavioural Sciences, Built Environment, STM and Law, from leading Imprints, including Routledge, Focal Press and Psychology Press. These eBooks are available for both individual and institutional purchase.

INDIVIDUALS

Our eBooks are available from Amazon, Apple iBookstore, Google eBooks, Ebooks.com, Kobo, Barnes & Noble, Waterstones, Mobipocket, VitalSource, and CourseSmart.

LIBRARIES AND INSTITUTIONS

Subscribe to or purchase a wide range of eBook packages or pick and mix your own from our complete collection (a minimum number of titles applies). FREE TRIALS are available. For more information, please visit www.tandfebooks.com or contact your local sales team.

eUpdates

Register your email at www.tandf.co.uk/eupdates to receive information on books, journals and other news within your area of interest.

Partnership Opportunities at Routledge

At Routledge we always look for innovative ways to support and collaborate with our readers and the organizations they represent.
If you or your organization would like to discuss partnership opportunities, from reciprocal marketing activities to commercial enterprises, please do get in touch on partnerships@routledge.com.

Considering Books for Course Use?

This symbol shows books that are available as complimentary exam copies for lecturers or faculty considering them for course adoption. To obtain your copy visit the URL listed beneath the title in the catalog and select your choice of print or electronic copy.

Visit www.routledge.com or in the US you can call 1-800-634-7064.

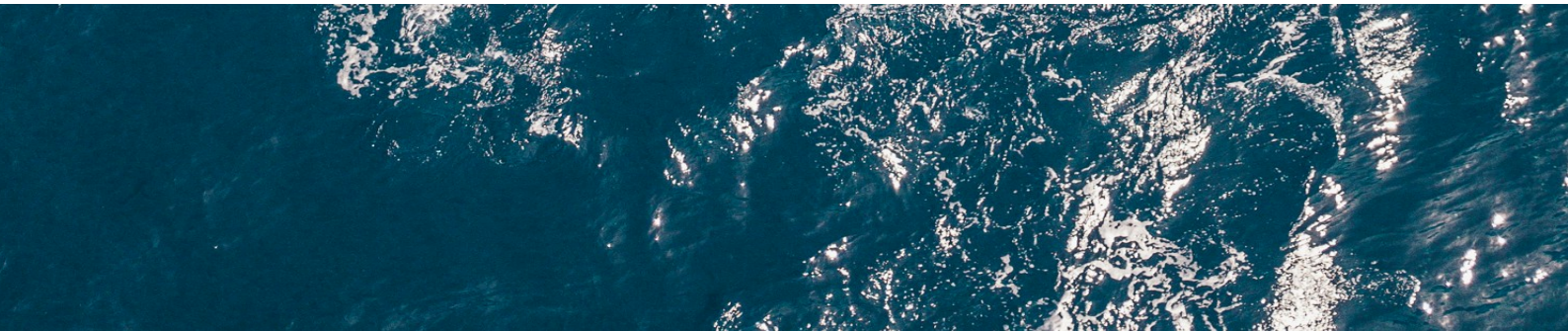
This symbol shows books that are available as electronic inspection copies only.

For a complete list, visit: www.routledge.com/representatives.

Trade Customers\' Representatives, Agents and Distribution

For a complete list, visit:
www.routledge.com/representatives.

an **informa** business



Contents

Antarctica and the Earth System

Edited by **Michael Meredith , Jess Melbourne-Thomas , Alberto Naveira Garabato , Marilyn Raphael**

This book presents a state-of-the-art overview of the role that Antarctica and the Southern Ocean play as integral parts of the Earth System.This book examines how Antarctica and the Southern Ocean are connected to the rest of the planet, and what these connections mean for the future of Planet Earth and all its inhabitants. It transcends traditional disciplinary boundaries to explore this role across physical, ecological, political and social systems. Antarctica and the Earth System will be of great interest to a wide range of interdisciplinary students and scholars of Earth sciences, Antarctic studies, polar science and environmental management.

Routledge
March 2025 : 352pp
Pb: 978-1-032-50086-7 : **£59.99**
Hb: 978-1-032-52081-0 : **£145**
* For **full contents** and more information, visit: **www.routledge.com/9781032500867**

Marine Biodiversity Conservation

A Practical Approach

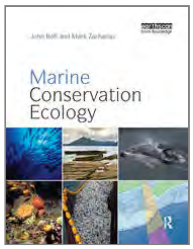
Keith Hiscock Marine Biological Association, Plymouth, UK

Series: Earthscan Oceans

Effective marine biodiversity conservation is dependent upon a clear scientific rationale for practical interventions. This book is intended to provide knowledge and tools for marine conservation practitioners and to identify issues and mechanisms for upper-level undergraduate and Masters students. The main focus is on benthic species living on or in the seabed and immediately above. Such species are fundamental to a stable and sustainable marine ecosystem. The book is a practical guide based on a clear exposition of the principles of marine ecology and species biology to demonstrate how marine conservation has been tackled worldwide.

Routledge
August 2014 : 318pp
Pb: 978-0-415-72356-5 : **£53.99**
Hb: 978-0-415-72355-8 : **£165**
eBook: 978-1-315-85764-0
* For **full contents** and more information, visit: **www.routledge.com/9780415723565**

Marine Conservation Ecology



John Roff , Mark Zacharias Ministry of Environment & Climate Change Strategy, Canada

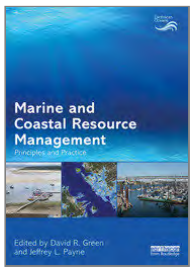
Series: Earthscan Oceans

This major textbook provides a broad coverage of the ecological foundations of marine conservation, including the rationale, importance and practicalities of various approaches to marine conservation and management. The scope of the book encompasses an understanding of the elements of marine biodiversity - from global to local levels - threats to marine biodiversity, and the structure and function of marine environments as related to conservation issues. The authors describe the potential approaches, initiatives and various options for conservation, from the genetic to the species, community and ecosystem levels in marine environments. They describe planning of ecologically integrated conservation strategies, including decision-making on size, boundaries, numbers and connectivity of protected area networks. The book also addresses relationships between fisheries and biodiversity, novel methods for conservation planning in the coastal zone and the evaluation of conservation init

Routledge
April 2011 : 476pp
Pb: 978-1-844-07884-4 : **£58.99**
Hb: 978-1-844-07883-7 : **£175**
eBook: 978-1-849-77554-0
* For **full contents** and more information, visit: **www.routledge.com/9781844078844**

Marine and Coastal Resource Management

Principles and Practice



Edited by **David R. Green** University of Aberdeen, UK**, Jeffrey L. Payne** Office for Coastal Management, NOAA, USA

Series: Earthscan Oceans

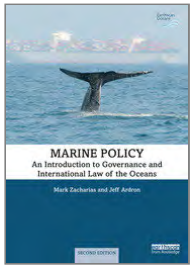
In this new and highly original textbook for a range of interdisciplinary courses and degree programmes focusing on marine and coastal resource management, readers are offered an introduction to the subject matter, a broad perspective and understanding, some case study applications, and a reference source. Each chapter is written by an international authority and expert in the respective field, bringing together perspectives from physical and human geography, marine biology and fisheries, planning and surveying, environmental change, engineering and tourism.

Routledge
September 2017 : 336pp
Pb: 978-1-849-71290-3 : **£54.99**
Hb: 978-1-849-71289-7 : **£180**
eBook: 978-0-203-12708-7
* For **full contents** and more information, visit: **www.routledge.com/9781849712903**

2ND EDITION

Marine Policy

An Introduction to Governance and International Law of the Oceans



Mark Zacharias Ministry of Environment & Climate Change Strategy, Canada**, Jeff Ardron** Commonwealth Secretariat, UK

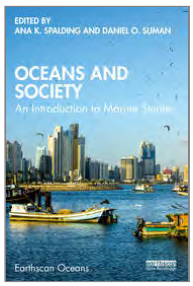
Series: Earthscan Oceans

This textbook provides readers with a foundation in policy development and analysis, describing how policy, including legal mechanisms, are applied to the marine environment. It presents a systematic treatment of all aspects of marine policy, including climate change, energy, environmental protection, fisheries, mining and transportation. Aligned with current course offerings, this textbook is an ideal introduction for undergraduates and graduate students taking marine affairs, science and policy courses.

Routledge
June 2019 : 346pp
Pb: 978-0-815-37927-0 : **£49.99**
Hb: 978-0-815-37926-3 : **£135**
eBook: 978-1-351-21622-7
* For **full contents** and more information, visit: **www.routledge.com/9780815379270**

Oceans and Society

An Introduction to Marine Studies



Edited by **Ana Spalding , Daniel Suman**

Series: Earthscan Oceans

This unique textbook presents an introduction to the interdisciplinary field of marine studies, exploring the dynamic relationship between people and the marine environment. Oceans and Society is essential reading for students on marine studies courses, as well as those studying marine governance, policy, conservation and law more broadly. It will also be of great interest to students, researchers and professionals interested in applying interdisciplinary approaches to environmental challenges.

Routledge
February 2023 : 310pp
Pb: 978-0-367-52486-9 : **£33.99**
Hb: 978-0-367-52488-3 : **£125**
eBook: 978-1-003-05815-1
* For **full contents** and more information, visit: **www.routledge.com/9780367524869**

Transdisciplinary Marine Research

Bridging Science and Society

Edited by **Sílvia Gómez , Vera Köpsel**

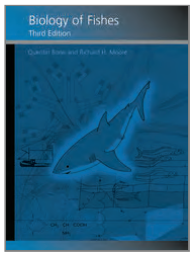
Series: Earthscan Oceans

Drawing on the expertise of marine researchers from both the natural and social sciences, this book examines how we, as both scientists and societies, can return to a sustainable co-existence with the ocean and use the tools of transdisciplinarity to bring together the diverse forms of knowledge needed to achieve this important task. This book will be of great interest to students and scholars studying marine science and ocean research across a wide range of disciplines, including marine biology, environmental governance and policy, ocean resource management, oceanography, environmental anthropology, human geography and sustainability.

Routledge
December 2022 : 320pp
Pb: 978-1-032-31758-8 : **£35.99**
Hb: 978-1-032-31760-1 : **£125**
eBook: 978-1-003-31117-1
* For **full contents** and more information, visit: **www.routledge.com/9781032317588**

3RD EDITION

Biology of Fishes



Quentin Bone Marine Biological Association of the UK, Plymouth, UK**, Richard Moore** Coastal Carolina University, USA

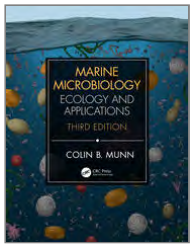
An ideal textbook for students of fish biology and any of the branches of aquatic biology for experienced biologists. This new edition has been completely rewritten to take account of the high rate of publication of scientific papers on fishes. Selected Contents: 1. Diversity of Fishes 2. Fishes and their Habitats 3. Locomotion 4. Buoyancy 5. Gas Exchange and the Circulatory System 6. Osmoregulation and Ion Balance 7. Food and Feeding 8. Reproduction and Life Histories 9. Endocrine Systems 10. Sensory Systems and Communication 11. The Nervous System 12. Behaviour 13. Fisheries and Aquaculture

Taylor & Francis
March 2008 : 450pp
Pb: 978-0-415-37562-7 : **£82**
Hb: 978-1-138-35771-6 : **£190**
eBook: 978-0-429-10534-0
* For **full contents** and more information, visit: **www.routledge.com/9780415375627**

3RD EDITION

Marine Microbiology

Ecology & Applications



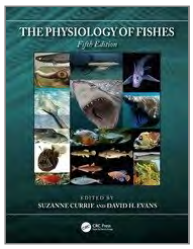
Colin Munn , Colin Munn University of Plymouth, UK**, Colin B. Munn**

The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. A Companion Website provides extra resources to aid teaching and learning.

CRC Press
January 2020 : 436pp
Pb: 978-0-367-18356-1 : **£66.99**
Hb: 978-0-367-18359-2 : **£135**
eBook: 978-0-429-06104-2
* For **full contents** and more information, visit: **www.routledge.com/9780367183561**

5TH EDITION

The Physiology of Fishes



Edited by **Suzanne Currie , David H. Evans**

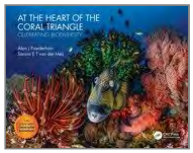
Series: CRC Marine Biology Series

The fifth edition of The Physiology of Fishes represents a compendium of knowledge across fish physiology, collecting up-to-date research into an easy-to-access single textbook. Written by the leaders in the field, it provides a comprehensive, accessible review of the core topics, integrating physiology with environmental science, ecology, evolution, and molecular cell biology. New chapters address Epigenetics, Biomechanics and Locomotion, and Behaviour and Learning. Each chapter contains an extensive bibliography, providing readers with the best sources from the primary literature.

CRC Press
September 2020 : 256pp
Pb: 978-0-367-47755-4 : **£86.99**
Hb: 978-0-367-54109-5 : **£215**
eBook: 978-1-003-03640-1
* For **full contents** and more information, visit: **www.routledge.com/9780367477554**

At the Heart of the Coral Triangle

Celebrating Biodiversity



Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

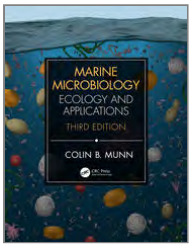
The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

3RD EDITION

Marine Microbiology

Ecology & Applications



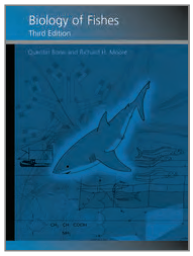
Colin Munn , Colin Munn University of Plymouth, UK**, Colin B. Munn**

The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. A Companion Website provides extra resources to aid teaching and learning.

CRC Press
January 2020 : 436pp
Pb: 978-0-367-18356-1 : **£66.99**
Hb: 978-0-367-18359-2 : **£135**
eBook: 978-0-429-06104-2
* For **full contents** and more information, visit: **www.routledge.com/9780367183561**

3RD EDITION

Biology of Fishes



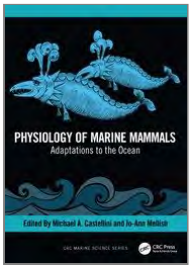
Quentin Bone Marine Biological Association of the UK, Plymouth, UK**, Richard Moore** Coastal Carolina University, USA

An ideal textbook for students of fish biology and any of the branches of aquatic biology for experienced biologists. This new edition has been completely rewritten to take account of the high rate of publication of scientific papers on fishes. Selected Contents: 1. Diversity of Fishes 2. Fishes and their Habitats 3. Locomotion 4. Buoyancy 5. Gas Exchange and the Circulatory System 6. Osmoregulation and Ion Balance 7. Food and Feeding 8. Reproduction and Life Histories 9. Endocrine Systems 10. Sensory Systems and Communication 11. The Nervous System 12. Behaviour 13. Fisheries and Aquaculture

Taylor & Francis
March 2008 : 450pp
Pb: 978-0-415-37562-7 : **£82**
Hb: 978-1-138-35771-6 : **£190**
eBook: 978-0-429-10534-0
* For **full contents** and more information, visit: **www.routledge.com/9780415375627**

Physiology of Marine Mammals

Adaptations to the Ocean



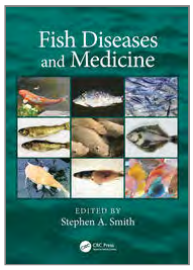
Edited by **Michael Castellini** Univ. of Alaska, Fairbanks**, Jo-Ann Mellish** North Pacific Research Board, USA

Series: CRC Marine Biology Series

This unique undergraduate textbook considers what makes a marine mammal different from terrestrial mammals, focusing on the physiological and biochemical characteristics that have allowed this group of mammals to effectively exploit the hostile marine environment. The contents are organised around common student questions such as " How do mammals stay warm in a cold ocean?" while each chapter provides a set of PowerPoint slides for instructors to use in teaching. Study Questions and Future Implications points conclude each chapter, while full-colour images and comprehensive, accessible content make this the definitive textbook for marine mammal physiology.

CRC Press
July 2023 : 368pp
Pb: 978-1-032-28560-3 : **£53.99**
Hb: 978-1-032-28570-2 : **£145**
eBook: 978-1-003-29746-8
* For **full contents** and more information, visit: **www.routledge.com/9781032285603**

Fish Diseases and Medicine

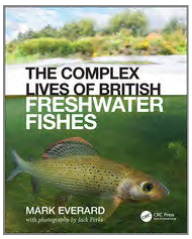


Edited by **Stephen A. Smith** Virginia-Maryland Regional College of Veterinary Medicine, USA

This comprehensive text provides an overview of fish medicine and the diseases and disorders of tropical, ornamental, bait and food fish from the freshwater, brackish and marine environments. The book is organized by body systems, an approach consistent with how a practitioner examines a diseased animal. Nineteen chapters by expert contributors offer an international perspective, exploring the problems affecting fish in various regions of the world.

CRC Press
April 2019 : 412pp
Hb: 978-1-498-72786-0 : **£91**
eBook: 978-0-429-19525-9
* For **full contents** and more information, visit: **www.routledge.com/9781498727860**

The Complex Lives of British Freshwater Fishes



Mark Everard University of the West of England, UK

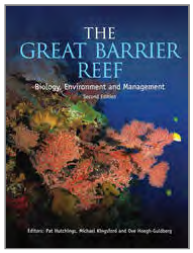
This stunningly illustrated book explores the fascinating life histories of Britain's freshwater fishes, a group of animals which, despite their importance and ubiquity in our diverse waters, has before now been rarely regarded and respected as 'wildlife'. It shows how freshwater fish provide food, ornamentation, sport and cultural identity, and highlights their huge importance for conservation. Featuring over 100 full-colour photographs by renowned photographer Jack Perks, this will appeal to conservationists, marine biology students, the conservation-minded public, the angling community, and our nation of wildlife enthusiasts.

CRC Press
May 2020 : 369pp
Hb: 978-0-367-44032-9 : **£33**
eBook: 978-1-003-00760-9
* For **full contents** and more information, visit: **www.routledge.com/9780367440329**

2ND EDITION

The Great Barrier Reef

Biology, Environment and Management, Second Edition



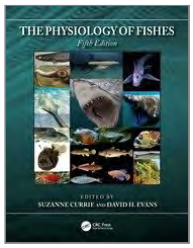
Edited by **Pat Hutchings** Australian Museum, Sydney, Australia**, Michael Kingsford** James Cook University, Townsville, QLD, Australia**, Ove Hoegh-Guldberg** Centre for Marine Studies, Queensland University, Brisbane, Australia

The iconic and beautiful Great Barrier Reef (GBR) Marine Park is home to one of the most diverse ecosystems in the world. With contributions from international experts, this timely and fully updated second edition of The Great Barrier Reef describes the animals, plants and other organisms of the reef, as well as the biological, chemical and physical processes that influence them. A must-read for the interested reef tourist, student, researcher and environmental manager. While it has an Australian focus, it can equally be used as a reference text for most Indo-Pacific coral reefs.

CRC Press
February 2019 : 488pp
Pb: 978-0-367-17428-6 : **£81**
* For **full contents** and more information, visit: **www.routledge.com/9780367174286**

5TH EDITION

The Physiology of Fishes



Edited by **Suzanne Currie , David H. Evans**

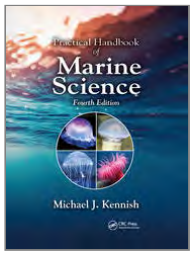
Series: CRC Marine Biology Series

The fifth edition of The Physiology of Fishes represents a compendium of knowledge across fish physiology, collecting up-to-date research into an easy-to-access single textbook. Written by the leaders in the field, it provides a comprehensive, accessible review of the core topics, integrating physiology with environmental science, ecology, evolution, and molecular cell biology. New chapters address Epigenetics, Biomechanics and Locomotion, and Behaviour and Learning. Each chapter contains an extensive bibliography, providing readers with the best sources from the primary literature.

CRC Press
September 2020 : 256pp
Pb: 978-0-367-47755-4 : **£86.99**
Hb: 978-0-367-54109-5 : **£215**
eBook: 978-1-003-03640-1
* For **full contents** and more information, visit: **www.routledge.com/9780367477554**

4TH EDITION

Practical Handbook of Marine Science

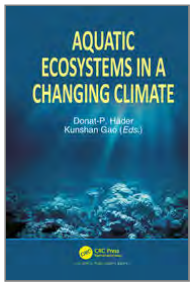


Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

Aquatic Ecosystems in a Changing Climate



Donat-P Häder , Kunshan Gao

Global climate change affects productivity and species composition of freshwater and marine aquatic ecosystems by raising temperatures, ocean acidification, excessive solar UV and visible radiation. Effects on bacterioplankton and viruses, phytoplankton and macroalgae have far-reaching consequences for primary consumers such as zooplankton, invertebrates and vertebrates, as well as on human consumption of fish, crustaceans and mollusks. It has affected the habitation of the Arctic and Antarctic oceans the most so far. Increasing pollution from terrestrial runoff, industrial, municipal and household wastes as well as marine transportation and plastic debris also affect aquatic ecosystems.

CRC Press
March 2021 : 324pp
Pb: 978-0-367-78060-9 : **£45.99**
Hb: 978-1-138-35005-2 : **£185**
eBook: 978-0-429-43613-0
* For **full contents** and more information, visit: **www.routledge.com/9780367780609**

At the Heart of the Coral Triangle

Celebrating Biodiversity

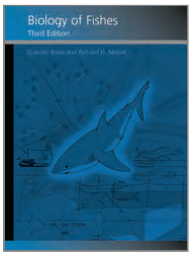
Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

3RD EDITION

Biology of Fishes



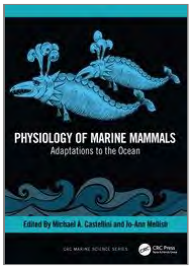
Quentin Bone Marine Biological Association of the UK, Plymouth, UK**, Richard Moore** Coastal Carolina University, USA

An ideal textbook for students of fish biology and any of the branches of aquatic biology for experienced biologists. This new edition has been completely rewritten to take account of the high rate of publication of scientific papers on fishes. Selected Contents: 1. Diversity of Fishes 2. Fishes and their Habitats 3. Locomotion 4. Buoyancy 5. Gas Exchange and the Circulatory System 6. Osmoregulation and Ion Balance 7. Food and Feeding 8. Reproduction and Life Histories 9. Endocrine Systems 10. Sensory Systems and Communication 11. The Nervous System 12. Behaviour 13. Fisheries and Aquaculture

Taylor & Francis
March 2008 : 450pp
Pb: 978-0-415-37562-7 : **£82**
Hb: 978-1-138-35771-6 : **£190**
eBook: 978-0-429-10534-0
* For **full contents** and more information, visit: **www.routledge.com/9780415375627**

Physiology of Marine Mammals

Adaptations to the Ocean



Edited by **Michael Castellini** Univ. of Alaska, Fairbanks**, Jo-Ann Mellish** North Pacific Research Board, USA

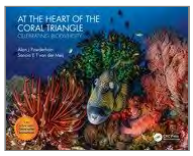
Series: CRC Marine Biology Series

This unique undergraduate textbook considers what makes a marine mammal different from terrestrial mammals, focusing on the physiological and biochemical characteristics that have allowed this group of mammals to effectively exploit the hostile marine environment. The contents are organised around common student questions such as " How do mammals stay warm in a cold ocean?" while each chapter provides a set of PowerPoint slides for instructors to use in teaching. Study Questions and Future Implications points conclude each chapter, while full-colour images and comprehensive, accessible content make this the definitive textbook for marine mammal physiology.

CRC Press
July 2023 : 368pp
Pb: 978-1-032-28560-3 : **£53.99**
Hb: 978-1-032-28570-2 : **£145**
eBook: 978-1-003-29746-8
* For **full contents** and more information, visit: **www.routledge.com/9781032285603**

At the Heart of the Coral Triangle

Celebrating Biodiversity



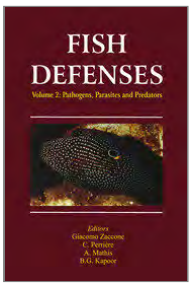
Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

Fish Defenses Vol. 2

Pathogens, Parasites and Predators



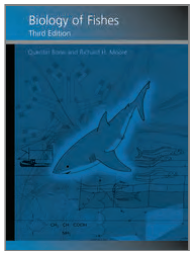
Edited by **Giacomo Zaccone**

Dramatic changes in the environment, including habitat degradation and climate change, have focused attention on how individuals and populations respond to a shifting biotic and abiotic landscape

CRC Press
January 2019 : 411pp
Pb: 978-1-138-11353-4 : **£48.99**
Hb: 978-1-578-08407-4 : **£130**
eBook: 978-0-429-18728-5
* For **full contents** and more information, visit: **www.routledge.com/9781138113534**

3RD EDITION

Biology of Fishes

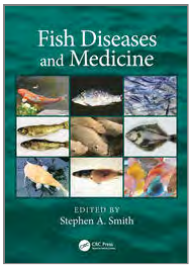


Quentin Bone Marine Biological Association of the UK, Plymouth, UK**, Richard Moore** Coastal Carolina University, USA

An ideal textbook for students of fish biology and any of the branches of aquatic biology for experienced biologists. This new edition has been completely rewritten to take account of the high rate of publication of scientific papers on fishes. Selected Contents: 1. Diversity of Fishes 2. Fishes and their Habitats 3. Locomotion 4. Buoyancy 5. Gas Exchange and the Circulatory System 6. Osmoregulation and Ion Balance 7. Food and Feeding 8. Reproduction and Life Histories 9. Endocrine Systems 10. Sensory Systems and Communication 11. The Nervous System 12. Behaviour 13. Fisheries and Aquaculture

Taylor & Francis
March 2008 : 450pp
Pb: 978-0-415-37562-7 : **£82**
Hb: 978-1-138-35771-6 : **£190**
eBook: 978-0-429-10534-0
* For **full contents** and more information, visit: **www.routledge.com/9780415375627**

Fish Diseases and Medicine



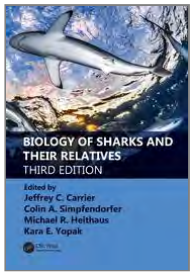
Edited by **Stephen A. Smith** Virginia-Maryland Regional College of Veterinary Medicine, USA

This comprehensive text provides an overview of fish medicine and the diseases and disorders of tropical, ornamental, bait and food fish from the freshwater, brackish and marine environments. The book is organized by body systems, an approach consistent with how a practitioner examines a diseased animal. Nineteen chapters by expert contributors offer an international perspective, exploring the problems affecting fish in various regions of the world.

CRC Press
April 2019 : 412pp
Hb: 978-1-498-72786-0 : **£91**
eBook: 978-0-429-19525-9
* For **full contents** and more information, visit: **www.routledge.com/9781498727860**

3RD EDITION

Biology of Sharks and Their Relatives



Edited by **Jeffrey C Carrier** Albion College, Michigan, USA **, Colin A. Simpfendorfer** James Cook Univ.**, Michael R. Heithaus** Florida International University, Miami, Florida, USA**, Kara E. Yopak** Uni. of North Carolina Wilmington

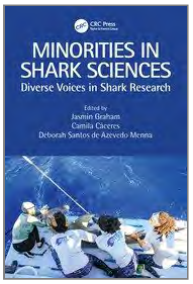
Series: CRC Marine Biology Series

Biology of Sharks and Their Relatives is an award winning and groundbreaking exploration of the fundamental elements of the taxonomy, physiology, and ecology of sharks, skates, rays, and chimera. This presents current research as well as traditional models, to develop new frontiers in their own work.Traditional areas of study such as reproduction, taxonomy and systematics, sensory biology, and ecology are updated with contemporary research that incorporates emerging techniques including molecular genetics, exploratory techniques in artificial insemination.

CRC Press
June 2022 : 840pp
Hb: 978-0-367-86117-9 : **£110**
eBook: 978-1-003-26219-0
* For **full contents** and more information, visit: **www.routledge.com/9780367861179**

Minorities in Shark Sciences

Diverse Voices in Shark Research

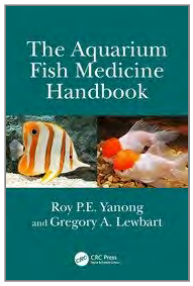


Edited by **Jasmin Graham** Minorities in Shark Sc., USA**, Camila Caceres** Minorities in Shark Sc., USA**, Deborah Santos de Azevedo Menna** American Shark Conservancy,USA

This book showcases the work done by Black, Indigenous and People of Color around the world in the fields of shark science and conservation. Edited by one Black and two Latin American female shark researchers, it strives to provide positive role models for the next generation. Strong minority voices are exactly what is needed to bring greater attention to the conservation of sharks, and this book illustrates how great things have been, are and will continue to be accomplished by people who were historically excluded from marine science. It highlights the unique perspectives these scientists bring to their field that allow them to interact with stakeholders.

CRC Press
November 2022 : 212pp
Pb: 978-1-032-19694-7 : **£35.99**
Hb: 978-1-032-19696-1 : **£96.99**
eBook: 978-1-003-26037-0
* For **full contents** and more information, visit: **www.routledge.com/9781032196947**

The Aquarium Fish Medicine Handbook

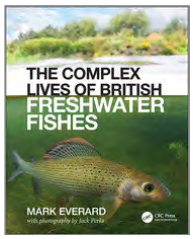


Roy P.E. Yanong University of Florida, USA**, Gregory A. Lewbart** NC State University, USA

Practicing veterinarians, veterinary technicians, professional aquarists, fish researchers, and tropical fish hobbyists will find this thorough yet concise handbook a complete how-to guide for keeping fish under human care healthy and thriving. The book covers ways to manage aquatic life support systems for fish, history taking, natural history, anatomy, physiology, diagnostic techniques, anesthesia, analgesia, and surgery. Virtually all of the most important ornamental fish pathogens, including viruses, bacteria, fungi, and parasites, are described and richly illustrated.

CRC Press
April 2024 : 288pp
Pb: 978-0-367-52291-9 : **£36.99**
Hb: 978-1-032-71120-1 : **£92.99**
eBook: 978-1-003-05772-7
* For **full contents** and more information, visit: **www.routledge.com/9780367522919**

The Complex Lives of British Freshwater Fishes



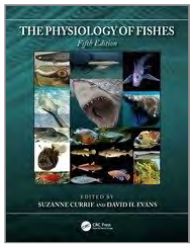
Mark Everard University of the West of England, UK

This stunningly illustrated book explores the fascinating life histories of Britain's freshwater fishes, a group of animals which, despite their importance and ubiquity in our diverse waters, has before now been rarely regarded and respected as 'wildlife'. It shows how freshwater fish provide food, ornamentation, sport and cultural identity, and highlights their huge importance for conservation. Featuring over 100 full-colour photographs by renowned photographer Jack Perks, this will appeal to conservationists, marine biology students, the conservation-minded public, the angling community, and our nation of wildlife enthusiasts.

CRC Press
May 2020 : 369pp
Hb: 978-0-367-44032-9 : **£33**
eBook: 978-1-003-00760-9
* For **full contents** and more information, visit: **www.routledge.com/9780367440329**

5TH EDITION

The Physiology of Fishes



Edited by **Suzanne Currie , David H. Evans**

Series: CRC Marine Biology Series

The fifth edition of The Physiology of Fishes represents a compendium of knowledge across fish physiology, collecting up-to-date research into an easy-to-access single textbook. Written by the leaders in the field, it provides a comprehensive, accessible review of the core topics, integrating physiology with environmental science, ecology, evolution, and molecular cell biology. New chapters address Epigenetics, Biomechanics and Locomotion, and Behaviour and Learning. Each chapter contains an extensive bibliography, providing readers with the best sources from the primary literature.

CRC Press
September 2020 : 256pp
Pb: 978-0-367-47755-4 : **£86.99**
Hb: 978-0-367-54109-5 : **£215**
eBook: 978-1-003-03640-1
* For **full contents** and more information, visit: **www.routledge.com/9780367477554**

Unravelling the algae

the past, present, and future of algal systematics

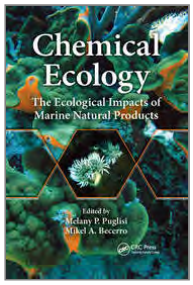
Edited by **Juliet Brodie , Jane Lewis**

With six pages of full color plates, Unravelling the algae: the past, present, and future of algae systematics reviews the state-of-the-science and assesses the impact of molecular tools on the taxonomy of algal groups. It discusses the extent to which these tools extend understanding of the immense algal diversity and revolutionize ideas of taxonomy and classification. Illustrating contrasting viewpoints, the book highlights contemporary perspectives on algal evolution and the concept of classification, addresses systematics and taxonomy for virtually all algal groups ranging from microalgae to ultraplankton, explores the impact of genomics on algal systematics, and concludes with a discussion of future directions for research.

CRC Press
October 2019 : 412pp
Pb: 978-0-367-38819-5 : **£63**
Hb: 978-0-849-37989-5 : **£180**
eBook: 978-0-429-12614-7
* For **full contents** and more information, visit: **www.routledge.com/9780367388195**

Chemical Ecology

The Ecological Impacts of Marine Natural Products



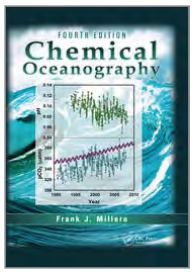
Edited by **Melany P. Puglisi , Mikel A. Becerro**

During the past 20 years, marine chemical ecology has emerged as a respected field of study providing a better understanding of the role natural products play in organisms and their environments. Ample data in this book advocates the conservation of marine environments for future drug discovery efforts while sustaining their overall health. Marine chemical ecology has expanded to include research in the areas of predator–prey interactions, marine microbial chemical ecology, and seasonal and geographical distribution of marine natural products.

CRC Press
December 2020 : 416pp
Pb: 978-0-367-73330-8 : **£45.99**
Hb: 978-1-482-24880-7 : **£185**
eBook: 978-0-429-45346-5
* For **full contents** and more information, visit: **www.routledge.com/9780367733308**

4TH EDITION

Chemical Oceanography

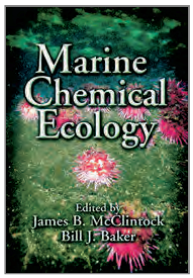


Frank J. Millero University of Miami, Florida, USA

The fourth edition of this respected text explores the latest issues affecting the health of our ocean environment. It examines ocean acidification and provides updated coverage on the carbonate system in the ocean, oceanic organic compounds, and dissolved organic carbon. It also discusses phosphate, nitrogen, and metals in the ocean. The book offers a new definition of salinity and a new equation of the state of seawater based on recent, original research, and it describes the new thermodynamic equation of the state of seawater. Full-color graphs and photographs assist readers in visualizing the concepts presented.

CRC Press
April 2013 : 591pp
Hb: 978-1-466-51249-8 : **£74**
eBook: 978-0-429-09663-1
* For **full contents** and more information, visit: **www.routledge.com/9781466512498**

Marine Chemical Ecology



Edited by **James B. McClintock** University of Alabama, Birmingham, USA**, Bill J. Baker** University of South Florida, Tampa, USA

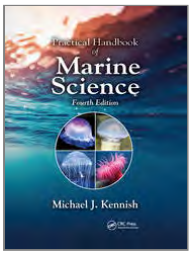
Series: CRC Marine Science

The interdisciplinary field of marine chemical ecology is an expanding and dynamic science. The first comprehensive resource on the subject, this book provides cellular, physiological, organismal, evolutionary, and applied perspectives and creates a high-resolution snapshot of the field at the start of the 21st century. It also includes up-to-date subject reviews by experts. An introductory section discusses distribution, biosynthesis, and evolution of secondary metabolites. Fully detailed with figures, tables, and chemical structural diagrams, it also provides broad coverage of microscopic and macroscopic chemical ecological phenomena and applied aspects of the field.

CRC Press
June 2001 : 622pp
Hb: 978-0-849-39064-7 : **£220**
eBook: 978-0-429-12451-8
* For **full contents** and more information, visit: **www.routledge.com/9780849390647**

4TH EDITION

Practical Handbook of Marine Science



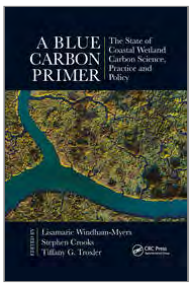
Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

A Blue Carbon Primer

The State of Coastal Wetland Carbon Science, Practice and Policy

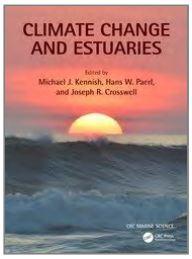


Edited by **Lisamarie Windham-Myers , Stephen Crooks** Environmental Science Association, San Francisco, California, USA**, Tiffany G. Troxler** Florida International University, Miami, USA

Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has been rapidly emerging in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

CRC Press
February 2020 : 532pp
Pb: 978-0-367-89352-1 : **£58.99**
Hb: 978-1-498-76909-9 : **£165**
eBook: 978-0-429-43536-2
* For **full contents** and more information, visit: **www.routledge.com/9780367893521**

Climate Change and Estuaries



Edited by **Michael J. Kennish , Hans W. Paerl** The Institute of Marine Sciences, NC, USA**, Joseph R. Crosswell** CSIRO Oceand and Atmosphere

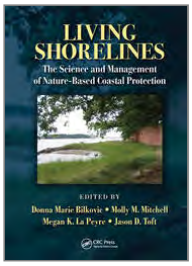
Series: CRC Marine Science

Climate change is having an increasing impact on estuarine and marine environments worldwide. This handbook provides state-of-the-art coverage of climate change effects on estuarine ecosystems from local, regional, and global perspectives. Consisting of three sections, physical-chemical aspects; biological aspects; and management aspects, the book not only examines climatic and non-climatic drivers of change affecting estuarine environments but also their interactions and effects on populations of organisms, communities, habitats, and ecosystem structure and function.

CRC Press
September 2023 : 684pp
Hb: 978-0-367-64752-0 : **£230**
eBook: 978-1-003-12609-6
* For **full contents** and more information, visit: **www.routledge.com/9780367647520**

Living Shorelines

The Science and Management of Nature-Based Coastal Protection

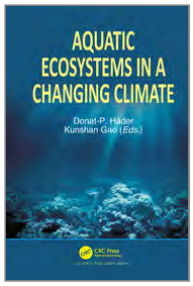


Edited by **Donna Marie Bilkovic , Molly M. Mitchell , Megan K. La Peyre , Jason D. Toft**

Estuarine and coastal shorelines were managed primarily to support human infrastructure and economic benefits. As a result, ecosystem function has diminished. Shoreline management is evolving to embrace the use of nature-based shoreline erosion control approaches. This book is a synthesis of recent thinking and results from practitioners and researchers of Living Shorelines, which are intended to restore natural shoreline functions in estuarine, marine, and aquatic systems.

CRC Press
June 2020 : 519pp
Pb: 978-0-367-57383-6 : **£45.99**
Hb: 978-1-498-74002-9 : **£175**
eBook: 978-1-315-15146-5
* For **full contents** and more information, visit: **www.routledge.com/9780367573836**

Aquatic Ecosystems in a Changing Climate



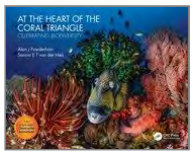
Donat-P Häder , Kunshan Gao

Global climate change affects productivity and species composition of freshwater and marine aquatic ecosystems by raising temperatures, ocean acidification, excessive solar UV and visible radiation. Effects on bacterioplankton and viruses, phytoplankton and macroalgae have far-reaching consequences for primary consumers such as zooplankton, invertebrates and vertebrates, as well as on human consumption of fish, crustaceans and mollusks. It has affected the habitation of the Arctic and Antarctic oceans the most so far. Increasing pollution from terrestrial runoff, industrial, municipal and household wastes as well as marine transportation and plastic debris also affect aquatic ecosystems.

CRC Press
March 2021 : 324pp
Pb: 978-0-367-78060-9 : **£45.99**
Hb: 978-1-138-35005-2 : **£185**
eBook: 978-0-429-43613-0
* For **full contents** and more information, visit: **www.routledge.com/9780367780609**

At the Heart of the Coral Triangle

Celebrating Biodiversity



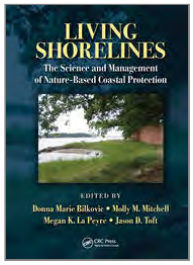
Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

Living Shorelines

The Science and Management of Nature-Based Coastal Protection



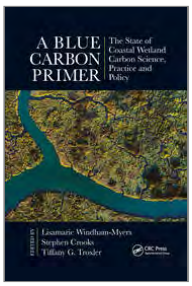
Edited by **Donna Marie Bilkovic , Molly M. Mitchell , Megan K. La Peyre , Jason D. Toft**

Estuarine and coastal shorelines were managed primarily to support human infrastructure and economic benefits. As a result, ecosystem function has diminished. Shoreline management is evolving to embrace the use of nature-based shoreline erosion control approaches. This book is a synthesis of recent thinking and results from practitioners and researchers of Living Shorelines, which are intended to restore natural shoreline functions in estuarine, marine, and aquatic systems.

CRC Press
June 2020 : 519pp
Pb: 978-0-367-57383-6 : **£45.99**
Hb: 978-1-498-74002-9 : **£175**
eBook: 978-1-315-15146-5
* For **full contents** and more information, visit: **www.routledge.com/9780367573836**

A Blue Carbon Primer

The State of Coastal Wetland Carbon Science, Practice and Policy

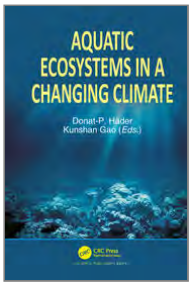


Edited by **Lisamarie Windham-Myers , Stephen Crooks** Environmental Science Association, San Francisco, California, USA**, Tiffany G. Troxler** Florida International University, Miami, USA

Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has been rapidly emerging in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

CRC Press
February 2020 : 532pp
Pb: 978-0-367-89352-1 : **£58.99**
Hb: 978-1-498-76909-9 : **£165**
eBook: 978-0-429-43536-2
* For **full contents** and more information, visit: **www.routledge.com/9780367893521**

Aquatic Ecosystems in a Changing Climate



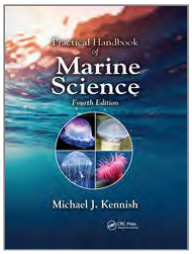
Donat-P Häder , Kunshan Gao

Global climate change affects productivity and species composition of freshwater and marine aquatic ecosystems by raising temperatures, ocean acidification, excessive solar UV and visible radiation. Effects on bacterioplankton and viruses, phytoplankton and macroalgae have far-reaching consequences for primary consumers such as zooplankton, invertebrates and vertebrates, as well as on human consumption of fish, crustaceans and mollusks. It has affected the habitation of the Arctic and Antarctic oceans the most so far. Increasing pollution from terrestrial runoff, industrial, municipal and household wastes as well as marine transportation and plastic debris also affect aquatic ecosystems.

CRC Press
March 2021 : 324pp
Pb: 978-0-367-78060-9 : **£45.99**
Hb: 978-1-138-35005-2 : **£185**
eBook: 978-0-429-43613-0
* For **full contents** and more information, visit: **www.routledge.com/9780367780609**

4TH EDITION

Practical Handbook of Marine Science



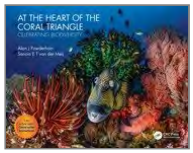
Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

At the Heart of the Coral Triangle

Celebrating Biodiversity

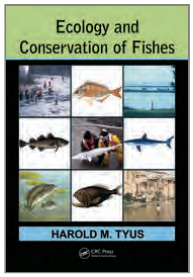


Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

Ecology and Conservation of Fishes

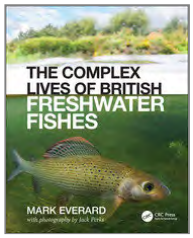


Harold M. Tyus University of Colorado, Boulder, USA

Written as a stand-alone text for students, this book provides broad, comprehensive, and systematic coverage of all aquatic systems from the mountains to the ocean. It addresses freshwater, estuarine, and marine ecosystems in the first third of the book, and identifies factors that affect the distribution and abundance of fishes. It is followed with the examination of the adaptations of fishes as a response to constraints posed in ecosystems. The final four chapters on applied ecology discuss management, conservation, the biodiversity crises, and climate change. The book offers case studies from all major aquatic systems.

CRC Press
October 2011 : 574pp
Hb: 978-1-439-85854-7 : **£100**
eBook: 978-0-429-11303-1
* For **full contents** and more information, visit: **www.routledge.com/9781439858547**

The Complex Lives of British Freshwater Fishes



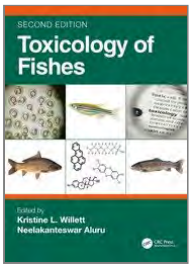
Mark Everard University of the West of England, UK

This stunningly illustrated book explores the fascinating life histories of Britain's freshwater fishes, a group of animals which, despite their importance and ubiquity in our diverse waters, has before now been rarely regarded and respected as 'wildlife'. It shows how freshwater fish provide food, ornamentation, sport and cultural identity, and highlights their huge importance for conservation. Featuring over 100 full-colour photographs by renowned photographer Jack Perks, this will appeal to conservationists, marine biology students, the conservation-minded public, the angling community, and our nation of wildlife enthusiasts.

CRC Press
May 2020 : 369pp
Hb: 978-0-367-44032-9 : **£33**
eBook: 978-1-003-00760-9
* For **full contents** and more information, visit: **www.routledge.com/9780367440329**

2ND EDITION

Toxicology of Fishes



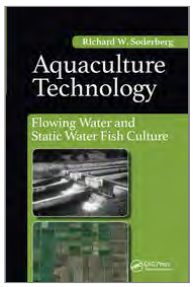
Edited by **Kristine L. Willett** Mississippi Univ.**, Neelakanteswar Aluru** Woods Hole Oceanographic Institution

This up-to-date, comprehensive handbook is devoted to the effects of chemical pollution on humans, animals and the marine environment, covering biochiemical and molecular aspects. The new edition is written by recognized experts with increased focus on genomics, delving into the impacts of microplastics, pharmaceuticals and oil spills in dedicated final chapters. With nearly 300 illustrations and Tables, this in-depth reference work presents detailed information on the boiavailability of chemical pollutants, their distribution, metabolism, and excretion in the host fish and mechanisms and sites of toxic responses.

CRC Press
March 2024 : 480pp
Hb: 978-0-367-74997-2 : **£165**
eBook: 978-1-003-16069-4
* For **full contents** and more information, visit: **www.routledge.com/9780367749972**

Aquaculture Technology

Flowing Water and Static Water Fish Culture



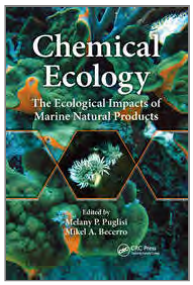
Richard Soderberg W.

This will be the first book to provide the skills to raise fish in both a static water and a flowing water aquaculture system with a pragmatic and quantitative approach. Following in the tradition of the author's highly praised book, Flowing Water Fish Culture, this work will stand out as one that makes the reader understand the theory of each type of aquaculture system, but more importantly teach "how to think" rather than "what to think" about these systems. It can be used as a valuable reference for setting up aquaculture systems and for how to grow fish to be used in experiments involving nutrition, disease, water quality, etc.

CRC Press
June 2020 : 284pp
Pb: 978-0-367-57374-4 : **£41**
Hb: 978-1-498-79884-6 : **£110**
eBook: 978-1-315-19481-3
* For **full contents** and more information, visit: **www.routledge.com/9780367573744**

Chemical Ecology

The Ecological Impacts of Marine Natural Products



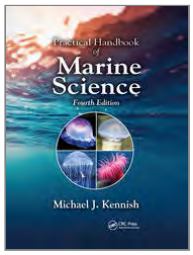
Edited by **Melany P. Puglisi , Mikel A. Becerro**

During the past 20 years, marine chemical ecology has emerged as a respected field of study providing a better understanding of the role natural products play in organisms and their environments. Ample data in this book advocates the conservation of marine environments for future drug discovery efforts while sustaining their overall health. Marine chemical ecology has expanded to include research in the areas of predator–prey interactions, marine microbial chemical ecology, and seasonal and geographical distribution of marine natural products.

CRC Press
December 2020 : 416pp
Pb: 978-0-367-73330-8 : **£45.99**
Hb: 978-1-482-24880-7 : **£185**
eBook: 978-0-429-45346-5
* For **full contents** and more information, visit: **www.routledge.com/9780367733308**

4TH EDITION

Practical Handbook of Marine Science

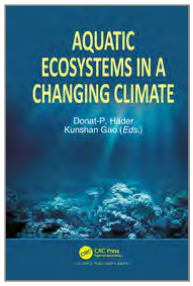


Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

Aquatic Ecosystems in a Changing Climate



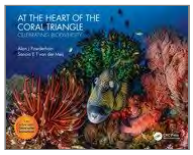
Donat-P Häder , Kunshan Gao

Global climate change affects productivity and species composition of freshwater and marine aquatic ecosystems by raising temperatures, ocean acidification, excessive solar UV and visible radiation. Effects on bacterioplankton and viruses, phytoplankton and macroalgae have far-reaching consequences for primary consumers such as zooplankton, invertebrates and vertebrates, as well as on human consumption of fish, crustaceans and mollusks. It has affected the habitation of the Arctic and Antarctic oceans the most so far. Increasing pollution from terrestrial runoff, industrial, municipal and household wastes as well as marine transportation and plastic debris also affect aquatic ecosystems.

CRC Press
March 2021 : 324pp
Pb: 978-0-367-78060-9 : **£45.99**
Hb: 978-1-138-35005-2 : **£185**
eBook: 978-0-429-43613-0
* For **full contents** and more information, visit: **www.routledge.com/9780367780609**

At the Heart of the Coral Triangle

Celebrating Biodiversity

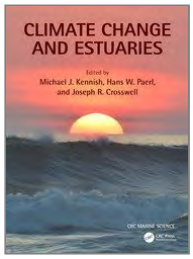


Alan J Powderham Consulting Engineer, UK**, Sancia van der Meij**

The Coral Triangle, lying at the confluence of the Indian and Pacific Oceans, harbours the greatest biodiversity of marine life on the planet. While it is hardly immune to the growing global impacts of climate change and pollution, it is home to a wondrous variety of species living within diverse habitats. With stunning photography supported by an engaging, informative and accessible text, this book celebrates this biodiversity with the underlying message that it needs our protection before it is too late.

CRC Press
December 2020 : 252pp
Hb: 978-0-367-42816-7 : **£47**
eBook: 978-0-367-85531-4
* For **full contents** and more information, visit: **www.routledge.com/9780367428167**

Climate Change and Estuaries



Edited by **Michael J. Kennish , Hans W. Paerl** The Institute of Marine Sciences, NC, USA**, Joseph R. Crosswell** CSIRO Oceand and Atmosphere

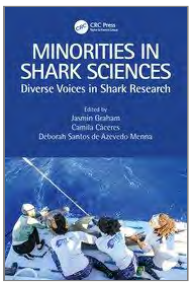
Series: CRC Marine Science

Climate change is having an increasing impact on estuarine and marine environments worldwide. This handbook provides state-of-the-art coverage of climate change effects on estuarine ecosystems from local, regional, and global perspectives. Consisting of three sections, physical-chemical aspects; biological aspects; and management aspects, the book not only examines climatic and non-climatic drivers of change affecting estuarine environments but also their interactions and effects on populations of organisms, communities, habitats, and ecosystem structure and function.

CRC Press
September 2023 : 684pp
Hb: 978-0-367-64752-0 : **£230**
eBook: 978-1-003-12609-6
* For **full contents** and more information, visit: **www.routledge.com/9780367647520**

Minorities in Shark Sciences

Diverse Voices in Shark Research



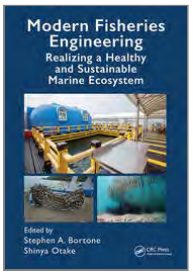
Edited by **Jasmin Graham** Minorities in Shark Sc., USA**, Camila Caceres** Minorities in Shark Sc., USA**, Deborah Santos de Azevedo Menna** American Shark Conservancy,USA

This book showcases the work done by Black, Indigenous and People of Color around the world in the fields of shark science and conservation. Edited by one Black and two Latin American female shark researchers, it strives to provide positive role models for the next generation. Strong minority voices are exactly what is needed to bring greater attention to the conservation of sharks, and this book illustrates how great things have been, are and will continue to be accomplished by people who were historically excluded from marine science. It highlights the unique perspectives these scientists bring to their field that allow them to interact with stakeholders.

CRC Press
November 2022 : 212pp
Pb: 978-1-032-19694-7 : **£35.99**
Hb: 978-1-032-19696-1 : **£96.99**
eBook: 978-1-003-26037-0
* For **full contents** and more information, visit: **www.routledge.com/9781032196947**

Modern Fisheries Engineering

Realizing a Healthy and Sustainable Marine Ecosystem



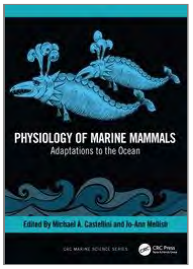
Edited by **Stephen A. Bortone , Shinya Otake**

This book is a compendium of the latest and most cutting-edge information on the diversity of technical aspects associated with Fisheries Engineering. Expanding on presentations given at the International Conference on Fisheries Engineering (ICFE) 2019, it aims to encourage and inspire future generations of young researchers in the field. Topics include artificial reefs, ocean ranching, fishing gear developments, modern monitoring technologies, and other subjects related to the latest practice of conducting efficient, sustainable fishing.

CRC Press
April 2022 : 168pp
Pb: 978-0-367-56066-9 : **£74**
Hb: 978-0-367-34792-5 : **£190**
eBook: 978-0-429-32803-9
* For **full contents** and more information, visit: **www.routledge.com/9780367560669**

Physiology of Marine Mammals

Adaptations to the Ocean



Edited by **Michael Castellini** Univ. of Alaska, Fairbanks**, Jo-Ann Mellish** North Pacific Research Board, USA

Series: CRC Marine Biology Series

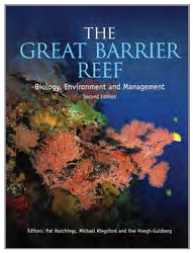
This unique undergraduate textbook considers what makes a marine mammal different from terrestrial mammals, focusing on the physiological and biochemical characteristics that have allowed this group of mammals to effectively exploit the hostile marine environment. The contents are organised around common student questions such as " How do mammals stay warm in a cold ocean?" while each chapter provides a set of PowerPoint slides for instructors to use in teaching. Study Questions and Future Implications points conclude each chapter, while full-colour images and comprehensive, accessible content make this the definitive textbook for marine mammal physiology.

CRC Press
July 2023 : 368pp
Pb: 978-1-032-28560-3 : **£53.99**
Hb: 978-1-032-28570-2 : **£145**
eBook: 978-1-003-29746-8
* For **full contents** and more information, visit: **www.routledge.com/9781032285603**

2ND EDITION

The Great Barrier Reef

Biology, Environment and Management, Second Edition



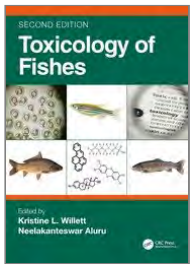
Edited by **Pat Hutchings** Australian Museum, Sydney, Australia**, Michael Kingsford** James Cook University, Townsville, QLD, Australia**, Ove Hoegh-Guldberg** Centre for Marine Studies, Queensland University, Brisbane, Australia

The iconic and beautiful Great Barrier Reef (GBR) Marine Park is home to one of the most diverse ecosystems in the world. With contributions from international experts, this timely and fully updated second edition of The Great Barrier Reef describes the animals, plants and other organisms of the reef, as well as the biological, chemical and physical processes that influence them. A must-read for the interested reef tourist, student, researcher and environmental manager. While it has an Australian focus, it can equally be used as a reference text for most Indo-Pacific coral reefs.

CRC Press
February 2019 : 488pp
Pb: 978-0-367-17428-6 : **£81**
* For **full contents** and more information, visit: **www.routledge.com/9780367174286**

2ND EDITION

Toxicology of Fishes



Edited by **Kristine L. Willett** Mississippi Univ.**, Neelakanteswar Aluru** Woods Hole Oceanographic Institution

This up-to-date, comprehensive handbook is devoted to the effects of chemical pollution on humans, animals and the marine environment, covering biochiemical and molecular aspects. The new edition is written by recognized experts with increased focus on genomics, delving into the impacts of microplastics, pharmaceuticals and oil spills in dedicated final chapters. With nearly 300 illustrations and Tables, this in-depth reference work presents detailed information on the boiavailability of chemical pollutants, their distribution, metabolism, and excretion in the host fish and mechanisms and sites of toxic responses.

CRC Press
March 2024 : 480pp
Hb: 978-0-367-74997-2 : **£165**
eBook: 978-1-003-16069-4
* For **full contents** and more information, visit: **www.routledge.com/9780367749972**

A Pocket Guide to Scientific Writing in Aquaculture Research

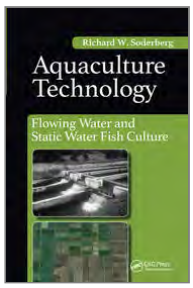
Rodrigue Yossa WorldFish HQ

Writing a high-quality scientific aquaculture publication is challenging, and many students and early career aquaculture scientists find the task daunting. Yossa provides new researchers with all the tools they need to write abstracts and a variety of articles (peer-reviewed, technical, magazines, working papers, scientific reports and more). He talks the reader step-by-step through the process of reviewing submitted manuscripts and replying to reviewers, and understanding research ethics. Each section is accompanied by examples, offerings a lifeline to aquaculture students and early career academics getting to grips with the basics.

CRC Press
November 2021 : 120pp
Pb: 978-0-367-33887-9 : **£19.99**
Hb: 978-0-367-33888-6 : **£49.99**
eBook: 978-0-429-32264-8
* For **full contents** and more information, visit: **www.routledge.com/9780367338879**

Aquaculture Technology

Flowing Water and Static Water Fish Culture

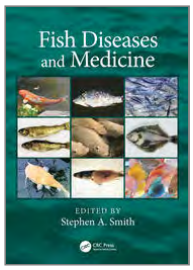


Richard Soderberg W.

This will be the first book to provide the skills to raise fish in both a static water and a flowing water aquaculture system with a pragmatic and quantitative approach. Following in the tradition of the author's highly praised book, Flowing Water Fish Culture, this work will stand out as one that makes the reader understand the theory of each type of aquaculture system, but more importantly teach "how to think" rather than "what to think" about these systems. It can be used as a valuable reference for setting up aquaculture systems and for how to grow fish to be used in experiments involving nutrition, disease, water quality, etc.

CRC Press
June 2020 : 284pp
Pb: 978-0-367-57374-4 : **£41**
Hb: 978-1-498-79884-6 : **£110**
eBook: 978-1-315-19481-3
* For **full contents** and more information, visit: **www.routledge.com/9780367573744**

Fish Diseases and Medicine



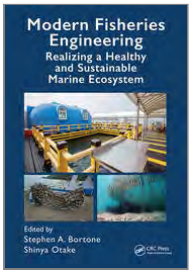
Edited by **Stephen A. Smith** Virginia-Maryland Regional College of Veterinary Medicine, USA

This comprehensive text provides an overview of fish medicine and the diseases and disorders of tropical, ornamental, bait and food fish from the freshwater, brackish and marine environments. The book is organized by body systems, an approach consistent with how a practitioner examines a diseased animal. Nineteen chapters by expert contributors offer an international perspective, exploring the problems affecting fish in various regions of the world.

CRC Press
April 2019 : 412pp
Hb: 978-1-498-72786-0 : **£91**
eBook: 978-0-429-19525-9
* For **full contents** and more information, visit: **www.routledge.com/9781498727860**

Modern Fisheries Engineering

Realizing a Healthy and Sustainable Marine Ecosystem



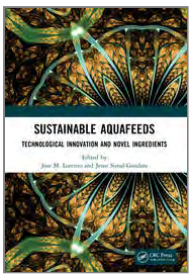
Edited by **Stephen A. Bortone , Shinya Otake**

This book is a compendium of the latest and most cutting-edge information on the diversity of technical aspects associated with Fisheries Engineering. Expanding on presentations given at the International Conference on Fisheries Engineering (ICFE) 2019, it aims to encourage and inspire future generations of young researchers in the field. Topics include artificial reefs, ocean ranching, fishing gear developments, modern monitoring technologies, and other subjects related to the latest practice of conducting efficient, sustainable fishing.

CRC Press
April 2022 : 168pp
Pb: 978-0-367-56066-9 : **£74**
Hb: 978-0-367-34792-5 : **£190**
eBook: 978-0-429-32803-9
* For **full contents** and more information, visit: **www.routledge.com/9780367560669**

Sustainable Aquafeeds

Technological Innovation and Novel Ingredients



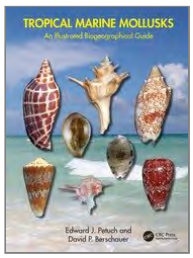
Edited by **Jose M. Lorenzo , Jesus Simal-Gandara**

This book explores the evolution of aquaculture feeds, explaining the current challenges and considering how advances in technologies and ingredients can produce aquafoods for the increasing world population. International contributors provide information on the profile of the aquafeed industry, including factors affecting supplies and prices of key ingredients for aquafeed production. Chapters update readers on the most promising strategies, including the use of different ingredients for nutrient supplementations such as bacterial meals, plant-based proteins, algae and yeast to replace wild-caught ingredients, and the enhancement of their use by genetic selection.

CRC Press
April 2023 : 384pp
Pb: 978-1-032-12072-0 : **£105**
Hb: 978-0-367-35444-2 : **£165**
eBook: 978-0-429-33166-4
* For **full contents** and more information, visit: **www.routledge.com/9781032120720**

Tropical Marine Mollusks

An Illustrated Biogeographical Guide



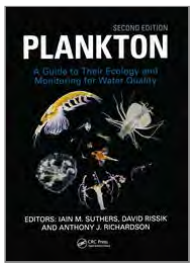
Edward J. Petuch Florida Atlantic Univ.**, David P. Berschauer** San Diego Shell Club

This book continues pioneering research into the distributions of molluscan faunas, illustrating 1778 species of gastropods in full color, many extremely rare endemic species illustrated for the first time outside of their original descriptions. The book's documentation of evolutionary "hot spots" and geographically restricted endemic faunas can also be used as a base line for future studies on patterns of environmental deterioration and extinction in the marine biosphere. This book will appeal to physical and chemical oceanographers, systematic and evolutionary biologists, historical geologists, paleontologists, climatologists, geomorphologists, and physical geographers.

CRC Press
December 2020 : 373pp
Hb: 978-0-367-63638-8 : **£180**
eBook: 978-1-003-12007-0
* For **full contents** and more information, visit: **www.routledge.com/9780367636388**

Plankton

Guide to Their Ecology and Monitoring for Water Quality



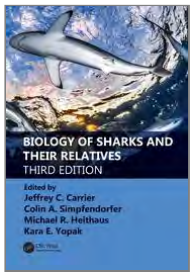
Iain Suthers , David Rissik , Anthony Richardson

This practical book provides a comprehensive introduction to the biology and ecology of plankton and describes its use as a tool for monitoring water quality. All the major freshwater and coastal phytoplankton and zooplankton groups are covered and their associated environmental issues are discussed. A chapter on best practice in sampling and monitoring explains how to design, implement and conduct meaningful phytoplankton and zooplankton monitoring programs in marine and freshwater habitats, as well as how to analyse and interpret the results for effective management decision-making. Real-life case studies demonstrate the use of plankton for identifying and monitoring water quality issues.

CRC Press
March 2019 : 248pp
Hb: 978-0-367-03016-2 : **£58**
* For **full contents** and more information, visit: **www.routledge.com/9780367030162**

3RD EDITION

Biology of Sharks and Their Relatives



Edited by **Jeffrey C Carrier** Albion College, Michigan, USA **, Colin A. Simpfendorfer** James Cook Univ.**, Michael R. Heithaus** Florida International University, Miami, Florida, USA**, Kara E. Yopak** Uni. of North Carolina Wilmington

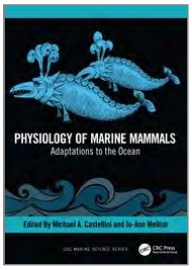
Series: CRC Marine Biology Series

Biology of Sharks and Their Relatives is an award winning and groundbreaking exploration of the fundamental elements of the taxonomy, physiology, and ecology of sharks, skates, rays, and chimera. This presents current research as well as traditional models, to develop new frontiers in their own work.Traditional areas of study such as reproduction, taxonomy and systematics, sensory biology, and ecology are updated with contemporary research that incorporates emerging techniques including molecular genetics, exploratory techniques in artificial insemination.

CRC Press
June 2022 : 840pp
Hb: 978-0-367-86117-9 : **£110**
eBook: 978-1-003-26219-0
* For **full contents** and more information, visit: **www.routledge.com/9780367861179**

Physiology of Marine Mammals

Adaptations to the Ocean



Edited by **Michael Castellini** Univ. of Alaska, Fairbanks**, Jo-Ann Mellish** North Pacific Research Board, USA

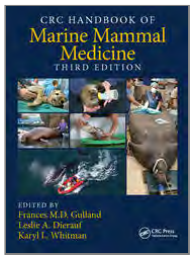
Series: CRC Marine Biology Series

This unique undergraduate textbook considers what makes a marine mammal different from terrestrial mammals, focusing on the physiological and biochemical characteristics that have allowed this group of mammals to effectively exploit the hostile marine environment. The contents are organised around common student questions such as " How do mammals stay warm in a cold ocean?" while each chapter provides a set of PowerPoint slides for instructors to use in teaching. Study Questions and Future Implications points conclude each chapter, while full-colour images and comprehensive, accessible content make this the definitive textbook for marine mammal physiology.

CRC Press
July 2023 : 368pp
Pb: 978-1-032-28560-3 : **£53.99**
Hb: 978-1-032-28570-2 : **£145**
eBook: 978-1-003-29746-8
* For **full contents** and more information, visit: **www.routledge.com/9781032285603**

3RD EDITION

CRC Handbook of Marine Mammal Medicine

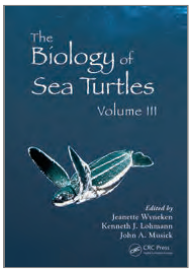


Edited by **Frances M.D. Gulland** Marine Mammal Center, Sausalito, California, USA**, Leslie A. Dierauf** Seattle, Washington, USA**, Karyl L. Whitman**

The new edition of the CRC Handbook of Marine Mammal Medicine provides a thorough and international approach to the husbandry, diseases, and environmental and political issues relating to marine mammal health and well-being. It covers all aspects of disease and health in cetaceans, pinnipeds, manatees, sea otters, and polar bears. In addition to the documented data on anatomy, physiology, infectious diseases, surgery, pathology, diagnostic imaging, and tagging and tracking, there are sections on marine mammals as sentinels of ocean health, strandings and rehabilitation, emerging diseases and public health considerations, legislative and regulatory issues, and careers in the field.

CRC Press
May 2018 : 1144pp
Hb: 978-1-498-79687-3 : **£230**
eBook: 978-1-315-14493-1
* For **full contents** and more information, visit: **www.routledge.com/9781498796873**

The Biology of Sea Turtles, Volume III



Edited by **Jeanette Wyneken** Florida Atlantic University, Boca Raton, USA**, Kenneth J. Lohmann** University of North Carolina, Chapel Hill, USA**, John A. Musick** Virginia Institute of Marine Science, Gloucester Point, USA

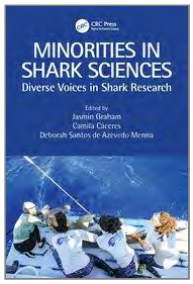
Series: CRC Marine Biology Series

Since the first volume of The Biology of Sea Turtles was published in 1997, the field has grown and matured in ways few of the authors would have predicted. Volume III presents timely coverage of emerging areas as well as the integration of approaches and information that did not exist even a decade ago. The book assembles the foremost experts in each topic to provide the most up-to-date and comprehensive book on sea turtles available today. New areas covered include in vivo imaging of structure, spatial distributions of marine turtles at sea, epibiosis, imprinting, parasitology, and climatic effects.

CRC Press
March 2013 : 475pp
Hb: 978-1-439-87307-6 : **£100**
eBook: 978-0-429-10501-2
* For **full contents** and more information, visit: **www.routledge.com/9781439873076**

Minorities in Shark Sciences

Diverse Voices in Shark Research



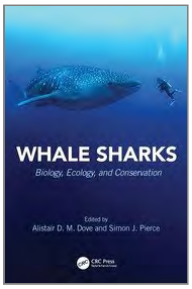
Edited by **Jasmin Graham** Minorities in Shark Sc., USA**, Camila Caceres** Minorities in Shark Sc., USA**, Deborah Santos de Azevedo Menna** American Shark Conservancy,USA

This book showcases the work done by Black, Indigenous and People of Color around the world in the fields of shark science and conservation. Edited by one Black and two Latin American female shark researchers, it strives to provide positive role models for the next generation. Strong minority voices are exactly what is needed to bring greater attention to the conservation of sharks, and this book illustrates how great things have been, are and will continue to be accomplished by people who were historically excluded from marine science. It highlights the unique perspectives these scientists bring to their field that allow them to interact with stakeholders.

CRC Press
November 2022 : 212pp
Pb: 978-1-032-19694-7 : **£35.99**
Hb: 978-1-032-19696-1 : **£96.99**
eBook: 978-1-003-26037-0
* For **full contents** and more information, visit: **www.routledge.com/9781032196947**

Whale Sharks

Biology, Ecology, and Conservation



Edited by **Alistair D.M. Dove , Simon J. Pierce**

Series: CRC Marine Biology Series

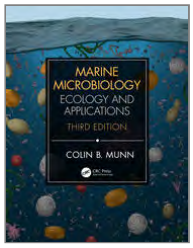
Written by the world's leading experts in whale shark biology, ecology, and conservation, Whale Sharks: Biology, Ecology and Conservation is the first definitive volume about the world's biggest fish. Chapters include discussions of satellite-linked tags, used to track whale shark movements; genetic sequencing, to examine evolutionary adaptations; even the use of underwater ultrasound units to investigate the species' reproduction. The editors hope that by collating what is known, they can make it easier for future researchers, conservationists, and resource managers to fill some of the remaining knowledge gaps, and provide the information they need to join the team.

CRC Press
August 2021 : 344pp
Pb: 978-1-138-57129-7 : **£59.99**
Hb: 978-1-032-04940-3 : **£220**
eBook: 978-0-203-70291-8
* For **full contents** and more information, visit: **www.routledge.com/9781138571297**

3RD EDITION

Marine Microbiology

Ecology & Applications



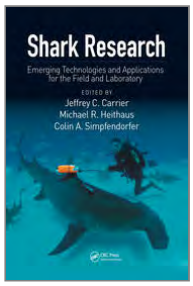
Colin Munn , Colin Munn University of Plymouth, UK**, Colin B. Munn**

The third edition of this bestselling text has been rigorously updated to reflect major new discoveries and concepts since 2011, especially progress due to extensive application of high-throughput sequencing, single cell genomics and analysis of large datasets. Significant advances in understanding the diversity and evolution of bacteria, archaea, fungi, protists, and viruses are discussed and their importance in marine processes is explored in detail. A Companion Website provides extra resources to aid teaching and learning.

CRC Press
January 2020 : 436pp
Pb: 978-0-367-18356-1 : **£66.99**
Hb: 978-0-367-18359-2 : **£135**
eBook: 978-0-429-06104-2
* For **full contents** and more information, visit: **www.routledge.com/9780367183561**

Shark Research

Emerging Technologies and Applications for the Field and Laboratory



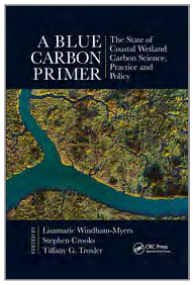
Edited by **Jeffrey C Carrier** Albion College, Michigan, USA **, Michael R. Heithaus** Florida International University, Miami, Florida, USA**, Colin A. Simpfendorfer** James Cook Univ.

The study of shark biology has benefited from the development, refinement, and rapid expansion of novel techniques and advances in technology. These have given new insight into shark genetics, feeding, foraging, bioenergetics, imaging, age and growth, movement, migration, habitat preference, and habitat use. This pioneering book, written by experts in shark biology, examines technologies such as autonomous vehicle tracking, underwater video approaches, molecular genetics techniques, and accelerometry, among many others. Each detailed chapter offers new insights and promises for future studies of elasmobranch biology and provides an overview of appropriate uses of each technique.

CRC Press
March 2020 : 408pp
Pb: 978-0-367-89343-9 : **£45.99**
Hb: 978-1-138-03292-7 : **£165**
eBook: 978-1-315-31712-0
* For **full contents** and more information, visit: **www.routledge.com/9780367893439**

A Blue Carbon Primer

The State of Coastal Wetland Carbon Science, Practice and Policy



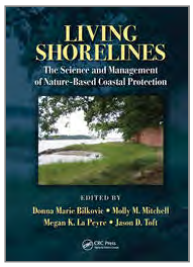
Edited by **Lisamarie Windham-Myers , Stephen Crooks** Environmental Science Association, San Francisco, California, USA**, Tiffany G. Troxler** Florida International University, Miami, USA

Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has been rapidly emerging in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

CRC Press
February 2020 : 532pp
Pb: 978-0-367-89352-1 : **£58.99**
Hb: 978-1-498-76909-9 : **£165**
eBook: 978-0-429-43536-2
* For **full contents** and more information, visit: **www.routledge.com/9780367893521**

Living Shorelines

The Science and Management of Nature-Based Coastal Protection



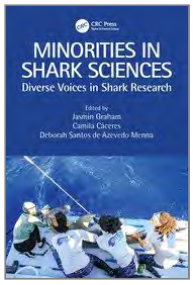
Edited by **Donna Marie Bilkovic , Molly M. Mitchell , Megan K. La Peyre , Jason D. Toft**

Estuarine and coastal shorelines were managed primarily to support human infrastructure and economic benefits. As a result, ecosystem function has diminished. Shoreline management is evolving to embrace the use of nature-based shoreline erosion control approaches. This book is a synthesis of recent thinking and results from practitioners and researchers of Living Shorelines, which are intended to restore natural shoreline functions in estuarine, marine, and aquatic systems.

CRC Press
June 2020 : 519pp
Pb: 978-0-367-57383-6 : **£45.99**
Hb: 978-1-498-74002-9 : **£175**
eBook: 978-1-315-15146-5
* For **full contents** and more information, visit: **www.routledge.com/9780367573836**

Minorities in Shark Sciences

Diverse Voices in Shark Research



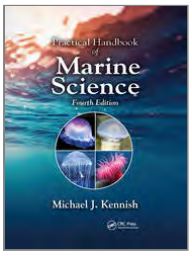
Edited by **Jasmin Graham** Minorities in Shark Sc., USA**, Camila Caceres** Minorities in Shark Sc., USA**, Deborah Santos de Azevedo Menna** American Shark Conservancy,USA

This book showcases the work done by Black, Indigenous and People of Color around the world in the fields of shark science and conservation. Edited by one Black and two Latin American female shark researchers, it strives to provide positive role models for the next generation. Strong minority voices are exactly what is needed to bring greater attention to the conservation of sharks, and this book illustrates how great things have been, are and will continue to be accomplished by people who were historically excluded from marine science. It highlights the unique perspectives these scientists bring to their field that allow them to interact with stakeholders.

CRC Press
November 2022 : 212pp
Pb: 978-1-032-19694-7 : **£35.99**
Hb: 978-1-032-19696-1 : **£96.99**
eBook: 978-1-003-26037-0
* For **full contents** and more information, visit: **www.routledge.com/9781032196947**

4TH EDITION

Practical Handbook of Marine Science

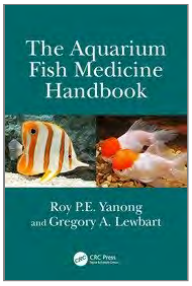


Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

The Aquarium Fish Medicine Handbook



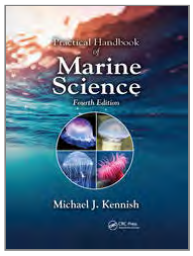
Roy P.E. Yanong University of Florida, USA**, Gregory A. Lewbart** NC State University, USA

Practicing veterinarians, veterinary technicians, professional aquarists, fish researchers, and tropical fish hobbyists will find this thorough yet concise handbook a complete how-to guide for keeping fish under human care healthy and thriving. The book covers ways to manage aquatic life support systems for fish, history taking, natural history, anatomy, physiology, diagnostic techniques, anesthesia, analgesia, and surgery. Virtually all of the most important ornamental fish pathogens, including viruses, bacteria, fungi, and parasites, are described and richly illustrated.

CRC Press
April 2024 : 288pp
Pb: 978-0-367-52291-9 : **£36.99**
Hb: 978-1-032-71120-1 : **£92.99**
eBook: 978-1-003-05772-7
* For **full contents** and more information, visit: **www.routledge.com/9780367522919**

4TH EDITION

Practical Handbook of Marine Science



Michael J. Kennish

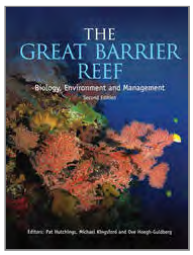
This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

2ND EDITION

The Great Barrier Reef

Biology, Environment and Management, Second Edition



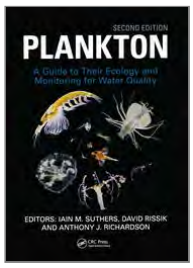
Edited by **Pat Hutchings** Australian Museum, Sydney, Australia**, Michael Kingsford** James Cook University, Townsville, QLD, Australia**, Ove Hoegh-Guldberg** Centre for Marine Studies, Queensland University, Brisbane, Australia

The iconic and beautiful Great Barrier Reef (GBR) Marine Park is home to one of the most diverse ecosystems in the world. With contributions from international experts, this timely and fully updated second edition of The Great Barrier Reef describes the animals, plants and other organisms of the reef, as well as the biological, chemical and physical processes that influence them. A must-read for the interested reef tourist, student, researcher and environmental manager. While it has an Australian focus, it can equally be used as a reference text for most Indo-Pacific coral reefs.

CRC Press
February 2019 : 488pp
Pb: 978-0-367-17428-6 : **£81**
* For **full contents** and more information, visit: **www.routledge.com/9780367174286**

Plankton

Guide to Their Ecology and Monitoring for Water Quality



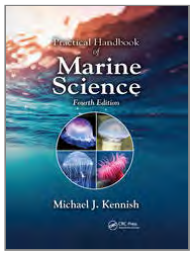
Iain Suthers , David Rissik , Anthony Richardson

This practical book provides a comprehensive introduction to the biology and ecology of plankton and describes its use as a tool for monitoring water quality. All the major freshwater and coastal phytoplankton and zooplankton groups are covered and their associated environmental issues are discussed. A chapter on best practice in sampling and monitoring explains how to design, implement and conduct meaningful phytoplankton and zooplankton monitoring programs in marine and freshwater habitats, as well as how to analyse and interpret the results for effective management decision-making. Real-life case studies demonstrate the use of plankton for identifying and monitoring water quality issues.

CRC Press
March 2019 : 248pp
Hb: 978-0-367-03016-2 : **£58**
* For **full contents** and more information, visit: **www.routledge.com/9780367030162**

4TH EDITION

Practical Handbook of Marine Science



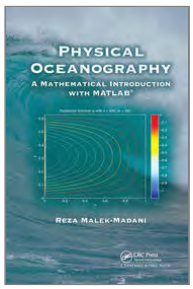
Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

Physical Oceanography

A Mathematical Introduction with MATLAB



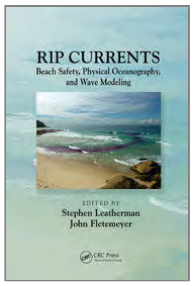
Reza Malek-Madani

Accessible to advanced undergraduate students, this text demonstrates how to use the basic tenets of multivariate calculus to derive the governing equations of fluid dynamics in a rotating frame. It also explains how to use linear algebra and PDEs to solve basic initial-boundary value problems that have become the hallmark of physical oceanography. The book makes the most of MATLAB®'s matrix algebraic functions, differential equation solvers, and visualization capabilities and includes chapter projects that incorporate MATLAB programming.

Chapman & Hall
October 2024 : 456pp
Pb: 978-1-032-91969-0 : **£56**
Hb: 978-1-584-88830-7 : **£89**
eBook: 978-0-429-11236-2
* For **full contents** and more information, visit: **www.routledge.com/9781032919690**

Rip Currents

Beach Safety, Physical Oceanography, and Wave Modeling

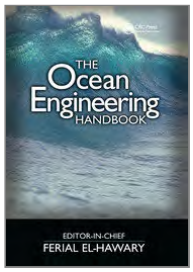


Edited by **Stephen Leatherman** Florida International University, Miami, Florida, USA**, John Fletemeyer** Florida International University, Miami, Florida, USA

An examination of advances in rip current research, this book provides a better understanding of the dynamics, mechanisms, and predictability of rip currents. A practical guide, it bridges the gap between rip current science and the implementation of appropriate public safety education. Coverage includes rip current prediction and modeling; case studies from the UK, Brasil, the United States, and Japan; rip currents in the Great Lakes; public safety procedures; the legal implications of rip current drowning; and more.

CRC Press
April 2017 : 310pp
Pb: 978-1-138-07527-6 : **£71**
Hb: 978-1-439-83896-9 : **£175**
eBook: 978-0-429-15213-9
* For **full contents** and more information, visit: **www.routledge.com/9781138075276**

The Ocean Engineering Handbook



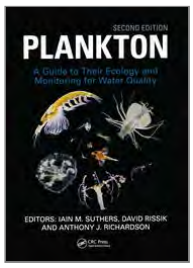
Edited by **Ferial El-Hawary**

Compiled by an internationally acclaimed panel of experts, this is the most complete reference of its kind. It provides comprehensive coverage of important areas of the theory and practice of oceanic/coastal engineering and technology. The well-organized text includes five major sections: Marine Hydrodynamics and Vehicles Control, Modeling Considerations, Position Control Systems for Offshore Vessels, Applications of Computational Intelligence in the Ocean's Environment, and Fiber Optics in Oceanographic Applications. Designed as a traditional handbook, it offers a detailed look ocean engineering, including thorough coverage of position control theory and implementation.

CRC Press
September 2019 : 416pp
Pb: 978-0-367-39769-2 : **£65**
Hb: 978-0-849-38598-8 : **£180**
eBook: 978-0-429-12325-2
* For **full contents** and more information, visit: **www.routledge.com/9780367397692**

Plankton

Guide to Their Ecology and Monitoring for Water Quality



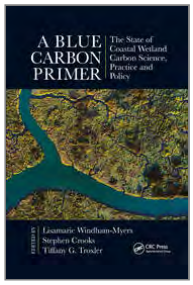
Iain Suthers , David Rissik , Anthony Richardson

This practical book provides a comprehensive introduction to the biology and ecology of plankton and describes its use as a tool for monitoring water quality. All the major freshwater and coastal phytoplankton and zooplankton groups are covered and their associated environmental issues are discussed. A chapter on best practice in sampling and monitoring explains how to design, implement and conduct meaningful phytoplankton and zooplankton monitoring programs in marine and freshwater habitats, as well as how to analyse and interpret the results for effective management decision-making. Real-life case studies demonstrate the use of plankton for identifying and monitoring water quality issues.

CRC Press
March 2019 : 248pp
Hb: 978-0-367-03016-2 : **£58**
* For **full contents** and more information, visit: **www.routledge.com/9780367030162**

A Blue Carbon Primer

The State of Coastal Wetland Carbon Science, Practice and Policy

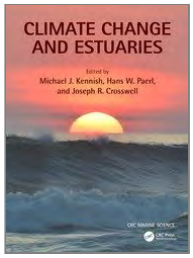


Edited by **Lisamarie Windham-Myers , Stephen Crooks** Environmental Science Association, San Francisco, California, USA**, Tiffany G. Troxler** Florida International University, Miami, USA

Blue Carbon has emerged as a term that represents the distinctive carbon stocks and fluxes into or out of coastal wetlands such as marshes, mangroves, and seagrasses. The Blue Carbon concept has been rapidly emerging in science literature and is highly relevant politically, as nations and markets are developing blue carbon monitoring and management tools and policies. This book is a comprehensive and current compendium of the state of the science, the state of maps and mapping protocols, and the state of policy incentives (including economic valuation of blue carbon), with additional sections on operationalizing blue carbon projects and 7 case studies with global relevance.

CRC Press
February 2020 : 532pp
Pb: 978-0-367-89352-1 : **£58.99**
Hb: 978-1-498-76909-9 : **£165**
eBook: 978-0-429-43536-2
* For **full contents** and more information, visit: **www.routledge.com/9780367893521**

Climate Change and Estuaries



Edited by **Michael J. Kennish , Hans W. Paerl** The Institute of Marine Sciences, NC, USA**, Joseph R. Crosswell** CSIRO Oceand and Atmosphere

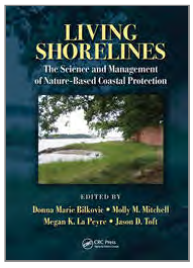
Series: CRC Marine Science

Climate change is having an increasing impact on estuarine and marine environments worldwide. This handbook provides state-of-the-art coverage of climate change effects on estuarine ecosystems from local, regional, and global perspectives. Consisting of three sections, physical-chemical aspects; biological aspects; and management aspects, the book not only examines climatic and non-climatic drivers of change affecting estuarine environments but also their interactions and effects on populations of organisms, communities, habitats, and ecosystem structure and function.

CRC Press
September 2023 : 684pp
Hb: 978-0-367-64752-0 : **£230**
eBook: 978-1-003-12609-6
* For **full contents** and more information, visit: **www.routledge.com/9780367647520**

Living Shorelines

The Science and Management of Nature-Based Coastal Protection



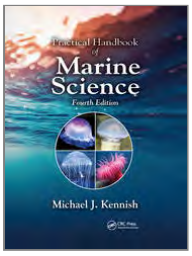
Edited by **Donna Marie Bilkovic , Molly M. Mitchell , Megan K. La Peyre , Jason D. Toft**

Estuarine and coastal shorelines were managed primarily to support human infrastructure and economic benefits. As a result, ecosystem function has diminished. Shoreline management is evolving to embrace the use of nature-based shoreline erosion control approaches. This book is a synthesis of recent thinking and results from practitioners and researchers of Living Shorelines, which are intended to restore natural shoreline functions in estuarine, marine, and aquatic systems.

CRC Press
June 2020 : 519pp
Pb: 978-0-367-57383-6 : **£45.99**
Hb: 978-1-498-74002-9 : **£175**
eBook: 978-1-315-15146-5
* For **full contents** and more information, visit: **www.routledge.com/9780367573836**

4TH EDITION

Practical Handbook of Marine Science

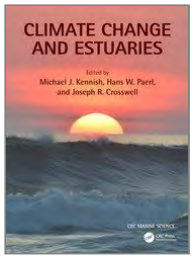


Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

Climate Change and Estuaries



Edited by **Michael J. Kennish , Hans W. Paerl** The Institute of Marine Sciences, NC, USA**, Joseph R. Crosswell** CSIRO Oceand and Atmosphere

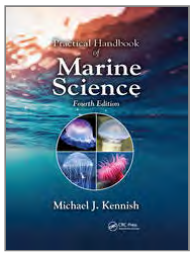
Series: CRC Marine Science

Climate change is having an increasing impact on estuarine and marine environments worldwide. This handbook provides state-of-the-art coverage of climate change effects on estuarine ecosystems from local, regional, and global perspectives. Consisting of three sections, physical-chemical aspects; biological aspects; and management aspects, the book not only examines climatic and non-climatic drivers of change affecting estuarine environments but also their interactions and effects on populations of organisms, communities, habitats, and ecosystem structure and function.

CRC Press
September 2023 : 684pp
Hb: 978-0-367-64752-0 : **£230**
eBook: 978-1-003-12609-6
* For **full contents** and more information, visit: **www.routledge.com/9780367647520**

4TH EDITION

Practical Handbook of Marine Science



Michael J. Kennish

This heavily revised fourth edition continues its tradition as a state-of-the-art reference that updates the field of marine science to meet the interdisciplinary research needs of physical oceanographers, marine biologists, marine chemists, and marine geologists. Maintaining its user-friendly, multi-sectional format, this comprehensive resource will also be of value to undergraduate and graduate students, administrators, and other professionals who deal with the management of marine resources. The new edition offers extensive illustrative and tabular reference material covering all the major disciplines related to the sea.

CRC Press
June 2022 : 528pp
Pb: 978-1-032-33823-1 : **£45.99**
Hb: 978-1-138-06885-8 : **£210**
eBook: 978-1-315-15759-7
* For **full contents** and more information, visit: **www.routledge.com/9781032338231**

Routledge
Taylor & Francis Group

Taylor & Francis Group
4 Park Square, Milton Park, Abingdon. Oxon. OX14 4RN
Tel: +44 (0) 20 805 20500