

Marine Conservation Biology The Science Of Maintaining The Seas Biodiversity

Evolution, Biology and Conservation
 Ecosystem-Based Management for the Oceans
 The Science of Maintaining the Sea's Biodiversity
 Marine Conservation Paleobiology
 An Introduction to Marine Mammal Biology and Conservation
 Sea Change
 The Failure of Environmental Education (And How We Can Fix It)
 Science and Policy
 Shark Biology and Conservation
 The Ocean Sunfishes
 Data Not Dogma
 Marine Conservation Ecology
 Marine Disease Ecology
 Marine Biodiversity Conservation
 A Handbook of Techniques
 A Practical Approach
 Marine Conservation Biology
 Marine Mammals
 Essentials for Educators, Students, and Enthusiasts
 Global Marine Biological Diversity
 A Strategy For Building Conservation Into Decision Making
 A Message of the Oceans
 Research Priorities For The Next Decade
 Marine Environmental Biology and Conservation
 Effective Conservation Science
 Coastal Conservation
 A Practical Approach
 Marine Conservation
 Marine Biodiversity, Climatic Variability and Global Change
 Song for the Blue Ocean
 Conservation Biology for All
 Marine Conservation
 Principles and techniques for management
 Citizen Science for Coastal and Marine Conservation
 Biology, Ecology, and Conservation
 Science, Policy, and Management
 Their Role in Monitoring and Management
 Whale Sharks
 Coastal-Marine Conservation

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WESTON RUSH

Evolution, Biology and Conservation Springer

A multi-disciplinary account of the current status, problems, and solutions to the coral reef crisis, first published in 2006.

Ecosystem-Based Management for the Oceans John Wiley & Sons

Much of our knowledge about marine mammals is derived from a long-term and dedicated research effort that is evolving rapidly due to the introduction and invention of new methods. This book reflects the inventiveness of marine researchers as they try to find ways around the problems presented to them by these unusual and challenging animals.

The Science of Maintaining the Sea's Biodiversity Jones & Bartlett Publishers

Marine Conservation Biology The Science of Maintaining the Sea's Biodiversity

Marine Conservation Paleobiology Springer Science & Business Media

Marine protected areas (MPAs) have an important role in marine conservation programmes around the world. Although most have been established relatively recently when compared with protected areas on land, there is considerable expertise on their identification, setting up and management. Some techniques have been adapted from those used on land. Others are novel, and unique to marine conservation. The chapters in this book give an insight into this fast developing field where experiment and innovation work alongside techniques which have been tried and tested. The guiding principles behind key stages in the setting up and management of MPAs are described, and case studies illustrate how they have worked. While it is most encouraging to read about the successes, the case studies also point to difficulties which have been encountered. Not all of the examples are new or recent but, together, they illustrate what is happening in this field.

An Introduction to Marine Mammal Biology and Conservation Island Press

This important and exciting title represents the first authoritative volume focussed on pelagic (open ocean) sharks as a group. Virtually every pelagic shark expert in the world has contributed to this landmark publication which includes the latest data and knowledge on pelagic shark biology, fisheries, management, and conservation. Pelagic sharks face unprecedented levels of

exploitation in all the world's oceans through both direct fisheries and by-catch, and effective management for these species is contingent upon solid science and data, which this book brings together for the first time. All those involved in shark biology will need to have a copy of this book.

Sea Change Routledge

"Written for the upper-level undergraduate or graduate-level course, *Marine Environmental Biology and Conservation* provides an introduction to the environmental and anthropogenic threats facing the world's oceans and outlines the steps that can and should be taken to protect these vital habitats"--

The Failure of Environmental Education (And How We Can Fix It) Texas A&M University Press

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. It also provides sound guidance for marine biology field course work and professionals. The main focus is on benthic species living on or in the seabed and immediately above, rather than on commercial fisheries or highly mobile vertebrates. Such species, including

algae and invertebrates, 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 issues and mechanisms have been tackled worldwide and especially the criteria, structures and decision trees that practitioners and managers will find useful. Well illustrated with conceptual diagrams and flow charts, the book includes case study examples from both temperate and tropical marine environments.

Science and Policy Oceanography and Marine Biology - An Annual Review

Providing a comprehensive account of marine conservation, this book examines human use and abuse of the world's seas and oceans and their marine life, and the various approaches to management and conservation. Healthy marine ecosystems - the goods and services that they provide - are of vital importance to human wellbeing. There is a pressing need for a global synthesis of marine conservation issues and approaches. This book covers conservation issues pertinent to major groups of marine organisms, such as sharks, marine turtles, seabirds and marine mammals; key habitats, from estuaries, wetlands and coral reefs to the deep sea; and from local and regional to international initiatives in marine conservation. An ideal resource for students, researchers and conservation professionals, the book pays appropriate attention to the underlying marine biology and oceanography and how human activities impact marine ecosystems, enabling the reader to fully understand the context of conservation action and its rationale.

Shark Biology and Conservation Oxford University Press

Since the award-winning first volume, *The Biology of Sharks and Their Relatives*, published in 2004, the field has witnessed tremendous developments in research, rapid advances in technology, and the emergence of new investigators beginning to explore issues of biodiversity, distribution, physiology, and ecology in ways that eluded more traditional studies. As an entirely new companion volume, *Sharks and Their Relatives II: Biodiversity, Adaptive Physiology, and Conservation* brings you up to speed on these significant changes, specifically examining how elasmobranch fishes - the sharks, skates, rays, and chimaeras - successfully survive in a wide range of habitats. Emphasizes Conservation of Threatened Species This multidisciplinary volume begins by examining elasmobranch biodiversity patterns and their integrated sensory systems. It then explores the physiological adaptations - from unique sensory modalities to compensatory mechanisms for physiological and environmental stress - that make these animals particularly well-suited for the range of habitats where they are found, in both oceanic and freshwater realms. Features Established Researchers and Introduces New Pioneers in the Field The book then considers the human interactions and anthropogenic effects on worldwide elasmobranch populations and the potential extinction risks posed by increasing threats from changes in habitat, changes in water chemistry, and growing commercial exploitation. This text truly is unrivaled in terms of coverage and readability, and it is a must-have reference for marine biologists, fishery scientists, oceanographers, and also marine, zoo, and aquarium veterinarians. To address subject areas and subdisciplines where coverage was absent or superficial in volume one, Jeffrey Carrier and associates have assembled in the current volume a collection of works that reveal patterns of biodiversity, the physiological attributes that contribute to elasmobranchs' successful exploitation of oceanic and freshwater realms, and the unique issues associated with the interaction between elasmobranchs and humans, all of this with overarching attention to issues of conservation. "We begin with chapters examining biodiversity. We have chosen to approach this discussion by presenting elasmobranchs as inhabitants of the range of zoogeographic provinces, realizing that significant overlap may occur for more pelagic species. This realization was reflected in the dialogue that occurred during preparation of the book between our chapter authors, and the recognition that many species simply cannot be confined to a specific habitat or range of habitats. We then continue by examining some of the unique physiological adaptations that allow these animals to exploit the range of habitats where they are found, from unique sensory modalities to compensatory mechanisms for physiological and environmental stress. "Our concluding section presents some of the challenges faced by members of these groups. We have asked our authors to consider human interactions and anthropogenic effects on worldwide populations and the potential extinction risks posed from survival under increasing threats from changes in habitat, changes in water chemistry, and increasing commercial exploitation. Conservation of species under threat remains a theme throughout the book. "Our authors represent an international group of investigators including established scientists whose work has been widely published and respected, and emerging younger scientists who have exploited recent advances in technology to

ask and answer new questions as well as offering new insights and interpretations to enduring problems in the fields of ecology and physiology. We have asked them to be speculative and challenging, and we have asked them to predict future areas for investigation in hopes that their work will both inspire and provoke additional studies of these fascinating animals." - from the Preface

The Ocean Sunfishes Routledge

This edited volume assembles some of the most intriguing voices in modern conservation biology. Collectively they highlight many of the most challenging questions being asked in conservation science today, each of which will benefit from new experiments, new data, and new analyses. The book's principal aim is to inspire readers to tackle these uncomfortable issues head-on. A second goal is to be reflective and consider how the field has reacted to challenges, and to what extent these challenges advance conservation science. A concluding chapter will synthesize common themes that emerge from the experiences of the authors in these debates and discuss how best to guard against confirmation bias. The hope is that this book will lead to greater conservation of ecosystems and biodiversity by harnessing the engine of constructive scientific scepticism in service of better results.

Data Not Dogma Oxford University Press

In 1989, the Center for Marine Conservation (CMC) joined a large group of international organizations in developing a Global Biodiversity Strategy. Now, CMC, the World Conservation Union, World Wildlife Fund, the World Bank, and the United Nations Environment Programmes have assembled a companion document, focusing on threats to life in the sea and ways to save, study, and use that life sustainably. This work, contributed by more than 100 experts, presents the most up-to-date information and views on the challenge of conserving the living sea. Illustrations, tables, figures, index.

Marine Conservation Ecology JHU Press

Enhanced by hundreds of original color photographs and beautifully detailed line drawings, *Shark Biology and Conservation* will appeal to anyone who is spellbound by this wondrous, ecologically important, and threatened group, including marine biologists, wildlife educators, students, and shark enthusiasts.

Marine Disease Ecology Oxford University Press

In the last 50 years marine conservation has grown from almost nothing to become a major topic of global activity involving many people and organisations. Marine conservation activities have been applied to a huge diversity of species, habitats, ecosystems and whole seas. Many marine conservation actions have focused on human impacts on the marine environment from development and pollution to the impacts of fisheries. Whilst science has provided the backbone of thinking on marine conservation, perhaps the biggest change over this period has been the use of an ever-increasing range of techniques and disciplines to further marine conservation ends. Bob Earl explores what marine conservation involves in practice by providing a synthesis of the main developments from the viewpoints of 19 leading practitioners and pioneers who have helped shape its progress and successes. Their narratives highlight the diversity and richness of activity, and the realities of delivering marine conservation in practice with reference to a host of projects and case studies. Many of these narratives demonstrate how innovative conservationists have been - often developing novel approaches to problems where little information and no frameworks exist. The case studies described are based on a wide range of European and international projects. This book takes an in-depth look at the reality of delivering marine conservation in practice, where achieving change is often a complicated process, with barriers to overcome that have nothing to do with science. Marine conservationists will often be working with stakeholders for whom marine conservation is not a priority. This book aims to help readers describe and understand those realities, and shows that successful and inspirational projects can be delivered against the odds.

Marine Biodiversity Conservation OUP Oxford

The sustainable exploitation of the marine environment depends upon our capacity to develop systems of management with predictable outcomes. Unfortunately, marine ecosystems are highly dynamic and this property could conflict with the objective of sustainable exploitation. This book investigates the theory that the population and behavioural dynamics of predators at the upper end of marine food chains can be used to assist with management. Since these species integrate the dynamics of marine ecosystems across a wide range of spatial and temporal scales, they offer new sources of information that can be formally used in setting management objectives. This book examines the current advances in the understanding of the ecology of marine predators and will

investigate how information from these species could be used in management.

A Handbook of Techniques Univ of California Press

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 explore methods for identifying the units of conservation, and the development of defensible frameworks for marine conservation. 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 initiatives.

A Practical Approach Cambridge University Press

Coastal-Marine Conservation: Science and Policy introduces students and managers to complex conservation and management issues facing coastal nations of the world, their citizens, and international and non-governmental organizations. It aims to reduce complexity and inspire a greater consensus for more effective conservation action. Presents the coastal realm as a heterogeneous, diverse ecosystem of exceptional high biological diversity and productivity, and where conservation challenges are most difficult and urgent Examines the critical issues facing coastal-marine conservation and the mechanisms for dealing with them Reviews the basic science required for addressing conservation issues by presenting the coastal realm as a land-sea ecosystem of global significance, and by reviewing the natural-history features of coastal-marine organisms Presents three ecologically and latitudinally distinct "real-world" case studies to create a context for understanding of regional systems, their cultures, and their conservation: the polar Bering Sea, the temperate Chesapeake Bay, and the tropical Bahamas Makes apparent the ecological stresses on the coastal realm, increasing rates of ecosystem change, loss of ecosystem health, and fragmented governance Synthesizes the major challenges for conservation and suggests future policy and management strategies, including ecosystem management and needs for achieving sustainability and addressing the environmental debt This book is intended for undergraduates and graduates taking courses in coastal and marine conservation and management, as well as those actively engaged in coastal-marine conservation activities, and gives the reader a clear steer to future management approaches. References additional to those in the book are available at http://www.blackwellpublishing.com/pdf/ra_referenc.pdf The artwork is available to download at <http://www.blackwellpublishing.com/ra/>

Marine Conservation Biology John Wiley & Sons

Interest in marine mammals has increased dramatically in the last few decades, as evidenced by the number of books, scientific papers, and conferences devoted to these animals. Nowadays, a conference on marine mammals can attract between one and two thousand scientists from around the world. This upsurge of interest has resulted in a body of knowledge which, in many cases, has identified major conservation problems facing particular species. At the same time, this knowledge and the associated activities of environmental organisations have served to introduce marine mammals to a receptive public, to the extent that they are now perceived by many as the living icons of biodiversity conservation. Much of the impetus for the current interest in marine mammal conservation comes from "Save the Whale" campaigns started in the 1960s by environmental groups around the world, in response to declining whale populations after over-exploitation by humans. This public pressure led to an international moratorium on whaling recommended in 1972 by the United Nations Conference on the Human Environment in Stockholm, Sweden, and eventually adopted by the International Whaling Commission ten years later. This moratorium largely holds sway to this day, and further protective measures have included the delimitation of extensive areas of the Indian Ocean (1979) and Southern Ocean (1994) as whale sanctuaries.

Marine Mammals Univ of California Press

Whale sharks are the largest of all fishes, fascinating for comparative studies of all manner of biological fields, including functional anatomy, growth, metabolism, movement ecology, behavior and physiology. These gentle ocean giants have captured the interest of scientists and the imagination of the public, yet their future is uncertain. The conservation status of whale sharks was upgraded to Endangered on the IUCN Red List and the species faces a range of intense threats

from human activities. Can these iconic living animals, who have survived for millions of years, survive us? 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. As you work your way through this book, we hope that you will develop a sense of awe and marvel at all of our good fortune to share the ocean, and the planet, with this utterly extraordinary species.

[Essentials for Educators, Students, and Enthusiasts](#) Cambridge University Press

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The Ocean Sunfishes: Evolution, Biology and Conservation is the first book to gather into one comprehensive volume our fundamental knowledge of the world-record holding, charismatic ocean behemoths in the family Molidae. From evolution and phylogeny to biotoxins, biomechanics, parasites, husbandry and popular culture, it outlines recent and future research from leading sunfish experts worldwide. This synthesis includes diet, foraging behavior, migration and fisheries bycatch and overhauls long-standing and outdated perceptions. This book provides the essential go-to resource for both lay and academic audiences alike and anyone interested in exploring one of the ocean's most elusive and captivating group of fishes.

Global Marine Biological Diversity CRC Press

Whether through loss of habitat or cascading community effects, diseases can shape the very nature of the marine environment. Despite their significant impacts, studies of marine diseases

have tended to lag behind their terrestrial equivalents, particularly with regards to their ecological effects. However, in recent decades global research focused on marine disease ecology has expanded at an accelerating rate. This is due in part to increases in disease emergence across many taxa, but can also be attributed to a broader realization that the parasites responsible for disease are themselves important members of marine communities. Understanding their ecological relationships with the environment and their hosts is critical to understanding, conserving, and managing natural and exploited populations, communities, and ecosystems. Courses on marine disease ecology are now starting to emerge and this first textbook in the field will be ideally placed to serve them. *Marine Disease Ecology* is suitable for graduate students and researchers in the fields of marine disease ecology, aquaculture, fisheries, veterinary science, evolution and conservation. It will also be of relevance and use to a broader interdisciplinary audience of government agencies, NGOs, and marine resource managers.