

Wiley Freshwater Fisheries Ecology John F Craig

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 Handbook of Freshwater Fishery Biology, Life History Data on Ichthyoperid and Percid Fishes of the United States and Canada
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 Migration of Freshwater Fishes
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HESTER TOWNSEND

Freshwater Fisheries Management John Wiley & Sons

Metabolic Ecology Most of ecology is about metabolism, the ways that organisms use energy and materials. The energy requirements of individuals (their metabolic rates) vary predictably with their body size and temperature. Ecological interactions are exchanges of energy and materials between organisms and their environments. Therefore, metabolic rate affects ecological processes at all levels: individuals, populations, communities and ecosystems. Each chapter focuses on a different process, level of organization, or kind of organism. It lays a conceptual foundation and presents empirical examples. Together, the chapters provide an integrated framework that holds the promise for a unified theory of ecology. The book is intended to be accessible to upper-level undergraduates and graduate students, but also of interest to senior scientists. Its easy-to-read chapters and clear illustrations can be used in lecture and seminar courses. This is an authoritative treatment that will inspire future generations to study metabolic ecology.

Ecology of Freshwater Fish Production John Wiley & Sons

Fast changing legislation and increasing environmental awareness within the non-scientific community demands that the modern approach to the

management of rivers and water resources should be based on a sound understanding and application of the scientific and ecological principles that underlie freshwater processes. In two volumes, *The Rivers Handbook* offers an expert and exhaustive insight into the principles, methods and tools of modern river management - always within an integrated and environmentally acceptable framework. This second volume develops the principles and philosophies expounded in the first volume into the management sphere, organizing the approach around problems, diagnosis and treatment. A fully comprehensive reference to sound methods of modern river management. The ideal information resource for all river managers.

Fisheries Ecology John Wiley & Sons

This book began life as a series of lectures given to second and third year undergraduates at Oxford University. These lectures were designed to give students insights as to how marine ecosystems functioned, how they were being affected by natural and human interventions, and how we might be able to conserve them and manage them sustainably for the good of people, both recreationally and economically. This book presents 10 chapters, beginning with principles of oceanography important to ecology, through discussions of the magnitude of marine biodiversity and the factors influencing it, the functioning of marine ecosystems at within trophic levels such as primary production, competition and dispersal, to different trophic level interactions such as herbivory, predation and parasitism. The final three chapters look at the more applied aspects of marine ecology, discussion fisheries, human impacts, and management and conservation. Other textbooks covering similar topics tend to treat the topics from the point of view of separate ecosystems, with chapters on reefs, rocks and deep sea. This book however is topic driven as described above, and each chapter makes

full use of examples from all appropriate marine ecosystems. The book is illustrated throughout with many full colour diagrams and high quality photographs. The book is aimed at undergraduate and graduate students at colleges and universities, and it is hoped that the many examples from all over the world will provide global relevance and interest. Both authors have long experience of research and teaching in marine ecology. Martin Speight's first degree was in marine zoology at UCNW Bangor, and he has taught marine ecology and conservation at Oxford for 25 years. His research students study tropical marine ecology from the Caribbean through East Africa to the Far East. Peter Henderson is a Senior Research Associate at the University of Oxford, and is Director of Pisces Conservation in the UK. He has worked on marine and freshwater fisheries, as well as ecological and economic impacts and exploitation of the sea in North and South America as well as Europe.

Estuarine Ecology John Wiley & Sons

Salmonid Fisheries is a landmark publication, concentrating on river management, habitat restoration and rehabilitation, disseminating lessons learnt in relation to the intensively studied salmonids that are applicable to future interventions, not just for salmonid species but for other non-salmonid species, biota and ecosystems. The contents of this book are the product of the Atlantic Salmon Trust's 40th Anniversary Conference, held in association with the Game and Wildlife Conservation Trust. Drawing together carefully-edited contributions from many of the world leaders in river restoration from academia, commercial management and government agencies, this important book highlights the need to view river management from the context of the catchment and to adopt an ecosystem-based approach to restoration. The book is broadly divided into two sections which discuss first, the status of current understanding concerning the relationship between lotic habitat management, the response of salmonid fisheries and the theory of river restoration, and secondly, the application of this to habitat management and river restoration. Salmonid Fisheries is an extremely valuable work of reference for fisheries managers, ecologists, environmental scientists, fish biologists, conservation biologists and geomorphologists. Libraries in all universities and research establishments where biological and earth sciences, and fisheries management are studied or taught should have copies of this book on their shelves. Contributions from a wide range of well known experts Published in association with the Atlantic Salmon Trust Habitat management is crucial for dwindling wild salmon populations Of great importance to aquatic ecologists and fisheries managers

Salmonid Fisheries John Wiley & Sons

Estuaries are among the most biologically productive ecosystems on the planet--critical to the life cycles of fish, other aquatic animals, and the creatures which feed on them. Estuarine Ecology, Second Edition, covers the physical and chemical aspects of estuaries, the biology and ecology of key organisms, the flow of organic matter through estuaries, and human interactions, such as the environmental impact of fisheries on estuaries and the effects of global climate change on these important ecosystems. Authored by a team of world experts from the estuarine science community, this long-awaited, full-color edition includes new chapters covering phytoplankton, seagrasses, coastal marshes, mangroves, benthic algae, Integrated Coastal Zone Management techniques, and the effects of global climate change. It also features an entirely new section on estuarine ecosystem processes, trophic webs, ecosystem metabolism, and the interactions between estuaries and other ecosystems such as wetlands and marshes

Conservation of Freshwater Fishes John Wiley & Sons

The new edition of this widely successful text continues to offer a wealth of essential information and practical guidance for all involved in freshwater fisheries management in temperate regions. Whilst the whole text has been fully revised and many sections have been completely rewritten to cover the many advances and developments of the last decade, the clarity of presentation and accessibility of style, hallmarks of the previous edition, are retained. Once more, the text is primarily concerned with the British Isles. However, the principles described and examples given are widely applicable in many other countries.

Metabolic Ecology Wiley-Blackwell

A completely rewritten and expanded new edition of Introduction to Freshwater Ecology. Building on the successful approach in that book, it presents a comprehensive outline regarding the scientific principles of the topic. Features fresh material on the use of ecological techniques for the management and conservation of lakes, rivers and streams and the life they support.

Aquaculture John Wiley & Sons

This established textbook continues to provide a comprehensive and stimulating introduction to rivers, lakes and wetlands, and was written as the basis for a complete course on freshwater ecology. Designed for undergraduate and early postgraduate students who wish to gain an overall view of this vast subject area, this accessible guide to freshwater ecosystems and man's activities will also be invaluable to anyone interested in the integrated management of freshwaters. The author maintains the tradition of clarity and conciseness set by previous editions, and the text is extensively illustrated with photographs and diagrams. Examples are drawn from the author's experience in many parts of the world. In this edition, the scientific content of the text has been fully revised and updated. Emphasis has been placed on human impacts, and a completely new chapter has been added on the future of freshwaters. Balanced and stimulating introduction to limnology. Successfully combines fundamental and applied aspects of integrated management of freshwaters, with strong emphasis on human links. Completely revised and rewritten with a threefold increase in the number of illustrations. New chapter on the future of freshwaters. Of interest to undergraduates, beginning postgraduates and any limnologically interested reader.

Freshwater Ecology John Wiley & Sons

The new edition of this established textbook, now with full colour illustration, has been extensively revised and continues to provide a comprehensive, stimulating, readable and authoritative coverage of freshwater habitats, their communities and their functioning, the world over. The work will be of great value to undergraduate and graduate students, fellow researchers and water managers, and the plain language and lack of jargon should make it accessible to anyone interested in the functioning and current state of lakes and rivers. Having taught and researched over fifty years and six continents, Professor Brian Moss makes here extensive use of his personal experience as well as the huge literature now available on freshwaters. This is the fifth edition of his textbook, which, since the first edition in 1980, has steadily evolved to reflect a rapidly changing science and environment. It places increasing emphasis on the role of people in damaging and managing freshwaters as we move into the Anthropocene epoch

and face unprecedented levels of climate and other changes, whilst rejoicing in the fascination of what are left of near pristine freshwater ecosystems. Professor Moss retired from the University of Liverpool following a career in Africa, the USA and the UK. He was awarded medals by the International Society for Limnology, of which he was President from 2007 to 2013, and The Institute of Ecology and Environmental Management. He was given The Ecology Institute's Excellence in Ecology Prize in 2009 and the book written for that prize, Liberation Ecology, was awarded the British Ecological Society's best ecology book prize in 2013.

Fisheries Biology, Assessment and Management John Wiley & Sons

This is the second edition of Freshwater Algae; the popular guide to temperate freshwater algae. This book uniquely combines practical information on sampling and experimental techniques with an explanation of basic algal taxonomy plus a key to identify the more frequently-occurring organisms. Fully revised, it describes major bioindicator species in relation to key environmental parameters and their implications for aquatic management. This second edition includes: the same clear writing style as the first edition to provide an easily accessible source of information on algae within standing and flowing waters, and the problems they may cause the identification of 250 algae using a key based on readily observable morphological features that can be readily observed under a conventional light microscope up-to-date information on the molecular determination of taxonomic status, analytical microtechniques and the potential role of computer analysis in algal biology upgrades to numerous line drawings to include more detail and extra species information, full colour photographs of live algae - including many new images from the USA and China Bridging the gap between simple identification texts and highly specialised research volumes, this book is used both as a comprehensive introduction to the subject and as a laboratory manual. The new edition will be invaluable to aquatic biologists for algal identification, and for all practitioners and researchers working within aquatic microbiology in industry and academia.

Ecology of Freshwaters Wiley

The percid fishes (or perch family) comprise many species including the perch, pikeperch, yellow perch, walleye and the darters. These species are of great ecological and economic importance, being important components of the freshwater ecosystem and recreational and commercial fisheries. Percid Fishes covers aspects such as systematics, morphology, biology, ecology, diseases and parasites and the economic importance of percid fisheries. Special emphasis is placed within the book on the complex relationship between this family of fishes and their environment and how they respond to perturbations, especially those induced by humans. The author, John Craig who has a great deal of experience working on these fishes in many of the countries in which they occur, has drawn together an extremely important book which provides a unique, comprehensive and indispensable review of this most significant group of fish.

Marine Ecology John Wiley & Sons

Many species of fish occupying inland waters reside in watersheds that were or still are surrounded by forests and are dependent in major ways upon such cover. The interactions between fishes and forests are complex, multifaceted, dynamic processes involving most inland surface waters, forests, subsurface waters, geology and soils, climate and its changes, and the biotic components of the relevant ecosystems. These interactions also include the aspects of forestry tied to human development, economics, population growth and even philosophies. Fishes and Forestry is truly a landmark publication. The editors, Professors Northcote and Hartman, have drawn together and carefully edited chapters written by 56 scientists from around the world, covering a vast wealth of information never before appearing within the covers of one book. Following an introductory chapter, this exceptional work is broadly divided into sections covering: the ecology of forests, streams, lakes and estuaries; fish biology and ecology; forestry activities and their effects on aquatic systems and fishes; 14 chapters covering examples of fish-forestry interactions from around the world and a final section covering means of effecting better fish-forestry interactions. Fishes and Forestry is an essential purchase for all those involved in inland fisheries, forestry and their interaction, including fisheries scientists, fish biologists, ecologists, environmental scientists and forestry scientists. Libraries in all universities and research establishments where these subjects are studied and taught should have several copies on their shelves.

Australian Freshwater Ecology John Wiley & Sons

In this edited work, international experts in fisheries management and ecology review and appraise the status of river fisheries, assessment methodology, constraints on development, issues and options regarding management and associated problems in both temperate and tropical countries. Recommendations are made to improve management and an attempt is made to provide guidelines for formulating policy, for planning methodology and for evaluating future activities. Assessment of fish community structure and dynamics. Factors constraining stock recruitment. Fish habitat requirements. Instream flow needs. Impact of water resource schemes. Rehabilitation of river fisheries. Enhancement of fish stocks. Exploitation of stocks. Management of migratory fish stocks. Conservation of endangered species. Integrated river management. Bioeconomic issues. Legislation. Multinational management of rivers. Case studies.

Fishes and Forestry John Wiley & Sons

River restoration projects are designed to recreate functional characteristics within a context of physical stability. They tend to focus on the development and application of geomorphic principles for river restoration design. Due to different models obtaining different results on the same problem, incomplete or absent data, and climatic/social/cultural changes, the designers and managers of such projects frequently face high levels of uncertainty. This book will provide a systematic overview of the issues involved in minimizing and coping with uncertainty in river restoration projects. A series of thematic sections will be used to define the various sources of uncertainty in restoration projects and how these show at different points in the life cycle (design, construction and post-construction phases) of restoration projects. The structure of the book will offer a rational theoretical analysis of the problem while providing practical guidance in managing the different sources of uncertainty. A wide range of case studies will be included from Europe, North America and Australasia

The Diversity of Fishes John Wiley & Sons

The second edition of The Diversity of Fishes represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy,

anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-recognized authorities, the first edition of *The Diversity of Fishes* was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and provides:

- Related videos selected by the authors
- Updates to the book since publication
- Instructor resources
- A chance to send in feedback

Management and Ecology of Lake and Reservoir Fisheries John Wiley & Sons

Recent decades have witnessed strong declines in fish stocks around the globe, amid growing concerns about the impact of fisheries on marine and freshwater biodiversity. Fisheries biologists and managers are therefore increasingly asking about aspects of ecology, behaviour, evolution and biodiversity that were traditionally studied by people working in very separate fields. This has highlighted the need to work more closely together, in order to help ensure future success both in management and conservation. The *Handbook of Fish Biology and Fisheries* has been written by an international team of scientists and practitioners, to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume, subtitled *Fish Biology*, reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology, recruitment, life histories, genetics, foraging behaviour, reproductive behaviour and community ecology. The second volume, subtitled *Fisheries*, uses much of this information in a wide-ranging review of fisheries biology, including methods of capture, marketing, economics, stock assessment, forecasting, ecosystem impacts and conservation. Together, these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science. They will also be useful to researchers who need up-to-date reviews of topics that impinge on their fields, and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems. To order volume I, go to the box in the top right hand corner. Alternatively to order volume II, go

to: <http://www.blackwellpublishing.com/book.asp?ref=063206482X> or to order the 2 volume set, go

to: <http://www.blackwellpublishing.com/book.asp?ref=0632064838>. Provides a unique overview of the study of fish biology and ecology, and the assessment and management of fish populations and ecosystems. The first volume concentrates on aspects of fish biology and ecology, both at the individual and population levels, whilst the second volume addresses the assessment and management of fish populations and ecosystems. Written by an international team of expert scientists and practitioners. An invaluable reference tool for both students, researchers and practitioners working in the fields of fish biology and fisheries.

Percid Fishes John Wiley & Sons

Captive Seawater Fishes: Science and Technology Stephen Spotte "The book is clearly a labor of love, and one must admire the author's boundless enthusiasm and breadth of scholarship." —*New Scientist* A seamlessly clear treatise on the science and technology of maintaining seawater fishes for purposes of aquaculture and public exhibition. *Captive Seawater Fishes* is the first book to bring together in one volume the disciplines of seawater chemistry, process engineering, and fish physiology, behavior, nutrition, and health. Richly illustrating the interplay between living fishes and the

chemical and sensory stimuli of their environment, the book details: chemical processes controlling carbonate stability in seawater; the effect of captivity on physiological processes; sensory processes of fishes, including vision, hearing, and electroreception; diseases of seawater fishes and treatment methods; and more. 1991 (0-471-54554-6) 976 pp. *Surveys of Fisheries Resources* Donald R. Gunderson The intensive exploitation of fisheries resources has heightened the reliance in the industry on statistical surveying as a means of monitoring the abundance and age composition of existing fish reserves. Here is the first comprehensive look at the unique challenges and problems of fisheries surveying. Covering everything from survey design, bottom trawl surveys, acoustic surveys, to egg and larval surveys and direct counts, as well as the assumptions and limitations surrounding each method, the book is an exhaustive, yet practical guide to designing accurate, cost-effective fisheries surveys. 1993 (0-471-54735-2) 256 pp. *Aquatic Pollution: An Introductory Text, Second Edition* Edward A. Laws Regarded as the most complete introduction available on the subject, *Aquatic Pollution* details the ecological principles and toxicological fundamentals behind the phenomenon as well as the latest information on the factors affecting our polluted aquatic environment. Featuring case studies and specific examples, the book systematically examines such problems as urban runoff, sewage disposal, thermal pollution, nutrient loading, industrial wastewater discharges, and oil pollution. The new Second Edition includes three new chapters on groundwater pollution, acid rain, and plastics in the sea, as well as updated and expanded information on eutrophication, pathogens in water supplies, radioactive waste disposal, toxic metals, and pesticide use. 1993 (0-471-58883-0) 611 pp. *Freshwater Algae* John Wiley & Sons

The sounds produced by geophonic, biophonic and technophonic sources are relevant to the function of natural and human modified ecosystems. Passive recording is one of the most non-invasive technologies as its use avoids human intrusion during acoustic surveys and facilitates the accumulation of huge amounts of acoustical data. For the first time, this book collates and reviews the science behind ecoacoustics; illustrating the principles, methods and applications of this exciting new field. Topics covered in this comprehensive volume include; the assessment of biodiversity based on sounds emanating from a variety of environments the best technologies and methods necessary to investigate environmental sounds implications for climate change and urban systems the relationship between landscape ecology and ecoacoustics the conservation of soundscapes and the social value of ecoacoustics areas of potential future research. An invaluable resource for scholars, researchers and students, *Ecoacoustics: The Ecological Role of Sounds* provides an unrivalled set of ideas, tools and references based on the current state of the field.

Ecoacoustics John Wiley & Sons

In this comprehensive edited book, international experts in fisheries management and ecology review and appraise the status of lake and reservoir fisheries, assessment of fisheries yields, trophic ecology, rehabilitation and conservation, including a special section on African lakes where so much information of huge relevance to fisheries managers is now available. Contributions from around the world. Carefully edited by internationally respected editor. Has been generated from acclaimed HIFI Symposium.

Patterns in Freshwater Fish Ecology John Wiley & Sons

This textbook covers the physical and chemical aspects of estuaries, the biology and ecology of key organisms, the flow of organic matter through estuaries, and human interactions, such as the environmental impact of fisheries on estuaries and the effects of global climate change on these important ecosystems. Each chapter will begin with basic concepts and then move on to describing applications and current practice. This new edition is being authored by a team of world experts from the estuarine science community.

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