



R.H.Lowe-McConnell
**Ecological studies in
tropical fish communities**

Ecological Studies In Tropical Fish Communities

Joacim Rocklöv



Ecological Studies In Tropical Fish Communities:

Ecological Studies in Tropical Fish Communities R. H. Lowe-McConnell, 1987-03-05 Tropical fish present some of the best examples of how new species evolve and how complex ecological communities are maintained Their study has generated important new ideas on the roles of ecology and behaviour in the evolution of species and communities This book brings together for the first time the results of widely scattered research on fish in tropical rivers lakes and seas research that has been stimulated by the splendid opportunities to observe the behaviour of fish in their natural habitats in the clear warm waters The book opens with an overview of the ecology of tropical freshwater and marine environments and their associated fish faunas and then presents a number of freshwater studies drawn from the African South American Asian and New Guinea tropics Special consideration is given to the new man made lakes which have provided large scale experiments on the change of riverine fish communities to lacustrine ones and to the great lakes of East Africa for examples of recent species evolution

Ecological Studies in Tropical Fish Communities R. H. Lowe-McConnell, 1987-02-27 The result of compiling widely scattered research on fish in tropical rivers lakes and seas A comprehensive overview of the ecology of fish communities in freshwater as well as marine environments

East African Ecosystems and Their Conservation T. R. McClanahan, T. P. Young, 1996 East Africa is one of the most diverse and interesting tropical area on the planet It is home not only to the last great megafaunal assemblage but also to human populations with the highest growth rates This book draws on the expertise of leading ecologists each intimately familiar with a particular set of East African ecosystems to provide the first in depth and integrated account of the ecology management threats and conservation of these diverse ecosystems Summarizing the tremendous wealth of scientific research that has come out of East Africa in the last few decades each chapter analyses a given ecosystem type taking the reader through the basics of its ecology its historical use and misuse by humans and its prospects for conservation Throughout the book linkages and similarities among ecosystems are emphasized the historical and contemporary role of humans in shaping these ecosystems is considered fundamental principles of ecology are considered and interesting case studies are highlighted Students and researchers in ecology conservation biology and environmental sciences will find this book useful in their work

Ecology of Teleost Fishes Robert J. Wootton, 2012-12-06 Among the fishes a remarkably wide range of biological adaptations to diverse habitats has evolved As well as living in the conventional habitats of lakes ponds rivers rock pools and the open sea fish have solved the problems of life in deserts in the deep sea in the cold antarctic and in warm waters of high alkalinity or of low oxygen Along with these adaptations we find the most impressive specializations of morphology physiology and behaviour For example we can marvel at the high speed swimming of the marlins sailfish and warm blooded tunas air breathing in catfish and lungfish parental care in the mouth brooding cichlids and viviparity in many sharks and toothcarps Moreover fish are of considerable importance to the survival of the human species in the form of nutritious and delicious food of numerous kinds Rational exploitation and management of

our global stocks of fishes must rely upon a detailed and precise insight of their biology The Chapman and Hall Fish and Fisheries Series aims to present timely volumes reviewing important aspects of fish biology Most volumes will be of interest to research workers in biology zoology ecology and physiology but an additional aim is for the books to be accessible to a wide spectrum of non specialist readers ranging from undergraduates and postgraduates to those with an interest in industrial and commercial aspects of fish and fisheries

Salmon Recovery Research for the Columbia and Snake Rivers United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science, Technology, and Space,1996

Ecology of Australian Freshwater Fishes Paul Humphries,Keith Walker,2013-04-10 This edited volume reviews our past and present understanding of the ecology of Australian freshwater fishes It compares patterns and processes in Australia with those on other continents discusses the local relevance of ecological models from the northern hemisphere and considers how best to manage our species and their habitats in the face of current and future threats In view of these challenges the need for redress is urgent The chapters are written by some of our foremost researchers and managers developing themes that underpin our knowledge of the ecology conservation and management of fish and fish habitats For each theme the authors formulate a synthesis of what is known consider the need for new perspectives and identify gaps and opportunities for research monitoring and management The themes have an Australian context but draw upon ideas and principles developed by fish biologists in other parts of the world The science of freshwater fish ecology in Australia has grown rapidly from its roots in natural history and taxonomy This book offers an introduction for students researchers and managers one that the authors hope will carry Australian fish biology and resource management to new levels of understanding

Global Biodiversity in a Changing Environment F.Stuart Chapin,Osvaldo E.

Sala,Elisabeth Huber-Sannwald,2013-12-01 The scientific community has voiced two general concerns about the future of the earth Climatologists and oceanographers have focused on the changes in our physical environment changes in the climate the oceans and the chemistry of the air we breathe Environmental biologists on the other hand have addressed issues of conservation and the extinction of species There is increasing evidence that these two broad concerns are intertwined and mutually dependent Past changes in biodiversity have both responded to and caused changes in Earth s environment In its discussions of ten key terrestrial biomes and freshwater ecosystems this volume uses our broad understanding of global environmental change to present the first comprehensive scenarios of biodiversity for the twenty first century Combining physical earth science with conservation biology Future Scenarios of Global Biodiversity provides a starting point for regional assessments on all scales The book will be of interest to those concerned with guiding research on the changing environment of the earth and with planning future policy especially in accordance with the Global Biodiversity Convention

Lake Victoria Wetlands and the Ecology of the Nile Tilapia John Stephen Balirwa,2017-09-29 This volume is taken from an ecological study of wetlands undertaken in northern Lake Victoria East Africa between 1993 and 1996 with the major aim of

characterizing shallow vegetation dominated interface habitats and evaluating their importance for fish in particular for the Nile tilapia

The Lakes Handbook Patrick O'Sullivan, C. S. Reynolds, 2008-04-15 Continuing concern about water supply and quality ecosystem sustainability and restoration demands that the modern approach to the management of lakes and reservoirs should be based on a sound understanding of the application of the scientific and ecological principles that underlie freshwater processes The Lakes Handbook provides an up to date overview of the application of ecologically sound approaches methods and tools using experience gained around the world for an understanding of lakes and their management Volume one of the Handbook addresses the physical and biological aspects of lakes pertinent to lake management emphasising those aspects particularly relevant to large still bodies of water Volume two then considers lake management with particular emphasis on sustainability restoration and rehabilitation This handbook will be invaluable to ecologists environmental scientists physical geographers and hydrologists involved in limnological research as well as advanced undergraduate and graduate students looking for authoritative reviews of the key areas of limnological study Brings together basic science and management issues International coverage and international authors Reviews management issues at a level suitable for the non expert

Ecology of Fresh Waters Brian R. Moss, 2009-07-15 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

Reproductive Biology of Teleost Fishes Robert J. Wootton, Carl Smith, 2014-10-17 Reproductive Biology of Teleost Fishes is the first integrated review of the reproductive biology of the bony fishes which are the most species rich and diversified group of vertebrates Teleosts display remarkable variation in their modes of reproduction and this volume is intended to provide a framework for understanding the remarkable reproductive diversity of this group It describes their reproductive biology using wherever possible phylogenetic analyses and life history theory as a means to interpret the information The book addresses the genetic physiological behavioural ecological evolutionary and applied aspects of teleost reproduction in a comparative framework

that emphasises the adaptive basis of reproductive diversity Reproductive Biology of Teleost Fishes provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists particularly ecologists evolutionary biologists physiologists and advanced undergraduates postgraduates and research workers requiring a comprehensive overview of fish reproduction The book is suitable for courses in fish biology and ecology reproductive physiology and reproductive genetics It also addresses applied questions and will be of value for courses on fisheries science and aquaculture Libraries in all universities and research establishments where biological sciences fisheries science and aquaculture are studied and taught should have several copies of this important book on their shelves

Environmental Flows Angela Arthington, 2012-10-15 Environmental Flows describes the timing quality and quantity of water flows required to sustain freshwater and estuarine ecosystems and the human well being and livelihoods that depend upon them It answers crucial questions about the flow of water within and between different kinds of ecosystems What happens when the flow or the availability of water is curtailed or diverted either naturally or by human activity How will climate change alter the availability of water and impact aquatic ecosystems Methodological developments from the simplest hydrological formulas to large scale frameworks that inform water management make this book a must read for water managers and freshwater and estuarine ecologists contending with ever changing conditions influencing the flow of water

Lateral Asymmetry in Animals Michio Hori, Satoshi Takahashi, 2022-07-23 This book presents the latest research findings on the laterality of fish and other animals It describes all aspects of lateral asymmetry including ecology morphology behaviour dynamics of lefty and righty morphs genetics and evolution through field observations experiments and modeling Lateral asymmetry in scale eating cichlids gives a simple and beautiful example of negative frequency dependent selection and resulting oscillation of lefty and righty morph frequencies Lateral dimorphism is found not only in scale eaters but in all orders of fish shrimps and cuttlefish Lateral asymmetry interacts between species through cross predation Contrary to fish lateral asymmetry in snails acts as in most cases positive frequency dependent selection and provides deep insights into speciation Especially snakes eating righty snails facilitate speciation of lefty snails As a collaboration work of field ecologists and theoretical biologists this book covers a variety of topics on lateral asymmetry which are consistently related to predation The topics include behavioral ecology population dynamics physiology evolution genetics development learning and neuroscience statistics with the subjects of fish shrimp prawn and crayfish crab cuttlefish and snake and snail Chapters cover new research results such as cuttlefish laterality dynamics interaction between laterality of snails and snakes evolution of laterality genetic system and statistical analysis of laterality oscillation Readers will appreciate the simplicity and beauty of lateral asymmetry and its profound impact on ecology and evolution

Feeding Ecology of Fish Shelby D. Gerking, 2014-04-25 Feeding Ecology of Fish establishes a comprehensive framework for the variable ecological patterns exemplified by feeding fishes The author a former president of the American Fisheries Society devotes special attention to synthesizing empirical studies in categorizing

feeding patterns This book shows how remarkably adaptable fish can be with regard to selecting food often from trophic levels not usually occupied Relying on a thorough literature survey Feeding Ecology of Fish will be an invaluable reference for both fishery scientists and ecological theorists Organization by trophic level Emphasis on empirical studies Broad coverage of a diverse field *Multiple Stressors and Ecological Response in Marine Fishery Ecosystems* Jun Xu,Ying Xue,Binhe Gu,2023-02-03 Limnology Robert G. Wetzel,2001-04-06 This book gives a comparative treatment of topics accross lake reservoir and rive ecosystems These analysis do indeed indicate differences among the properties of lakes land water interface regions reservoirs and rivers Importantly these analysis also indicate marked commonality in function

Feeding and Digestive Functions in Fishes J. E. P. Cyrino,Dominique P. Bureau,B. G. Kapoor,2008-01-10 Understanding the biology of the innumerable number of aquatic species on our planet is the focus of sustained research efforts Environmental degradation management or rehabilitation of wild stocks and the forecasted climatic changes are fueling interest in the study of the ecology feeding behavior and nutrition of aquatic animals in their nat **The Behavior, Ecology and Evolution of Cichlid Fishes** Maria E. Abate,David L.G. Noakes,2021-09-19 This volume constitutes the most recent and most comprehensive consideration of the largest family of bony fishes the Cichlidae This book offers an integrated perspective of cichlid fishes ranging from conservation of threatened species to management of cichlids as invasive species themselves Long standing models of taxonomy and systematics are subjected to the most recent applications and interpretations of molecular evidence and multivariate analyses and cichlid adaptive radiations at different scales are elucidated The incredible diversity of endemic cichlid species in African lakes is revisited as possible examples of sympatric speciation and as serious cases for management in complex anthropogenic environments Extreme hydrology and bathymetry as driver of micro allopatric speciation is explored in the African riverine hotspot of diversity of the lower Congo River Dramatic new molecular evidence draws attention to the complex taxonomy and systematics of Neotropical cichlids including the crater lakes of Central America Molecular genetics genomics imaging tools and field study techniques assess the roles of natural sexual and kin selection in shaping cichlid traits and beyond The complex behavioral adaptations of cichlids are considered from a number of sub disciplines including sensory biology neurobiology development and evolutionary ecology Most importantly this volume puts forth a wealth of new interpretations explanatory hypotheses and proposals for practical management and applications that will shape the future for these remarkable fishes in nature as well as their use as models for the study of biology **Tilapias: Biology and Exploitation** M.C.M Beveridge,B. McAndrew,2012-12-06 Referred to in the Bible pictured on the wall friezes of ancient Egyptian tombs and a subject of fascination for generations of scientists the tilapias Cichlidae Tilapiini have featured in the diet and culture of humankind for thousands of years The present century has seen their spread from Africa throughout the tropics and sub tropics largely for food and fisheries purposes This book attempts to pull together our knowledge of this important group their biology and fisheries and aquaculture in a single

volume something that has not been done comprehensively for nearly two decades A succession of chapters by acknowledged authorities covers evolution phylogenetic relationships and biogeography reproductive biology mating systems and parental care diet feeding and digestive physiology environmental physiology and energetics the role of tilapias in ecosystems population dynamics and management genetics seed production nutrition farming economics and marketing The book is aimed at biologists fisheries scientists aquaculturists and all interested in aquatic ecology

Afrotropical Streams and Rivers Tatenda Dalu, Frank Masese, 2024-11-09 The Afrotropical Streams and Rivers Structure Ecological Processes and Management is a comprehensive guide that provides assessment of major rivers and tributaries in Africa Unlike other books available the editors present a thorough study of geomorphological hydrological biological and ecological processes incorporating a range of plant and animal communities while considering implications of human communities that depend upon them This book edited by a diverse cohort of researchers and or scholars is intended as an educational and practical guide for graduate students researchers and scientists who focus on the biodiversity conservation and management policy issues of the African river systems Provides a comprehensive introduction to African freshwater rivers their biota and abiotic processes Contains unique case studies on African streams and rivers Organised around an interdisciplinary approach that covers the complex aspects of conservation and management of African river systems on the continent

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