

HANDBOOK OF
SCALING METHODS
IN AQUATIC ECOLOGY

MEASUREMENT, ANALYSIS, SIMULATION



EDITED BY
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Handbook Of Scaling Methods In Aquatic Ecology Measurement Analysis Simulation

Volker Grimm, Steven F. Railsback



Handbook Of Scaling Methods In Aquatic Ecology Measurement Analysis Simulation:

Handbook of Scaling Methods in Aquatic Ecology Laurent Seuront, Peter G. Strutton, 2003-09-25 The evolution of observational instruments simulation techniques and computing power has given aquatic scientists a new understanding of biological and physical processes that span temporal and spatial scales This has created a need for a single volume that addresses concepts of scale in a manner that builds bridges between experimentalists and Thinking in Patterns Miroslav Michal Novak, 2004 Fractal geometry together with the broader fields of nonlinear dynamics and complexity represented a large segment of modern science at the end of the 20th century Penetration of the resulting new paradigms into practically all academic disciplines has confirmed the fundamental assertion of universal formalism common to a wide range of human endeavors This book contains an extended article by B B Mandelbrot reviewing his contribution to fractal geometry and outlining some unsolved problems with illustrations especially of finance and physics It covers a range of multidisciplinary topics from the biology of aging through the self similar shape of plants image decompression and solar magnetic fields to sound reflection in the street The book is a treasure trove for innovative researchers working in fields related to fractal geometry The proceedings have been selected for coverage in Index to Scientific Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences **SIMBIOS Project 2003 Annual Report**, 2003 **Real-time Coastal Observing Systems for Marine Ecosystem Dynamics and Harmful Algal Blooms** Babin, Marcel, Roesler, Collin S., Cullen, John J., 2008-06-05 The proliferation of harmful phytoplankton in marine ecosystems can cause massive fish kills contaminate seafood with toxins impact local and regional economies and dramatically affect ecological balance Real time observations are essential for effective short term operational forecasting but observation and modelling systems are still being developed This volume provides guidance for developing real time and near real time sensing systems for observing and predicting plankton dynamics including harmful algal blooms in coastal waters The underlying theory is explained and current trends in research and monitoring are discussed Topics covered include coastal ecosystems and dynamics of harmful algal blooms theory and practical applications of in situ and remotely sensed optical detection of microalgal distributions and composition theory and practical applications of in situ biological and chemical sensors for targeted species and toxin detection integrated observing systems and platforms for detection diagnostic and predictive modelling of ecosystems and harmful algal blooms including data assimilation techniques observational needs for the public and government and future directions for research and operations **The Handbook of Sidescan Sonar** Philippe Blondel, 2010-05-17 Sidescan sonar is proving to be the preeminent technique for researchers and professionals seeking knowledge about the structure and behavior of the seafloor but its data is often difficult to interpret due to the physics of acoustic remote sensing and to the varied geological processes at play This book covers the fundamentals of sidescan sonar incorporates new understanding of marine structures and

explains how to interpret sidescan sonar imagery and bathymetry Ecosystem Function in Heterogeneous Landscapes Gary M. Lovett, Clive G. Jones, Monica G. Turner, Kathleen C. Weathers, 2007-12-21 Among the most difficult problems in the life sciences is the challenge to understand the details of how ecosystems watersheds landscapes function Yet the welfare of all life not just the human species depends upon the successful functioning of diverse and complicated ecosystems each with various dimensions and compositions Central to this working is the dominance and to a major extent control of ecosystems by organisms which means that these systems are constantly changing as the component organisms change and evolve Such changes increase the challenge to understand the functioning of ecosystems and landscapes Moreover understanding the interactions among the myriad components of these systems is mind boggling as there are scores of biotic probably many thousands of species when the microbial components are fully enumerated through genomics and countless abiotic ions molecules and compounds entities all simultaneously interacting and responding to diverse external factors to produce functional or dysfunctional environments for life This book focuses on the problems of connectedness and ecosystem functioning It is difficult enough to understand how an ecosystem functions when it is considered in isolation but all ecosystems are open and connected to everything else Clearly the inputs to any ecosystem are the outputs from others and vice versa and as such the fluxes represent major if not critical points for managing or changing the overall functioning of an ecosystem or landscape A major challenge is to find appropriate conceptual frameworks to address these complicated problems *The Spatial Distribution of Microbes in the Environment* Rima Franklin, Aaron Mills, 2007-09-04 In my first microbiology class in 1968 Richard Wodzinski opened his first lecture with Wodzinski's Laws of Bacteriology Those laws were 1 Bacteria are very very small 2 Bacteria are our friends and 3 Bacteria always have the last word These simple statements motivated a career of curiosity and started me on a wild ride of discovery with my miniscule colleagues The realization that an entity so tiny could mediate critical ecological processes observed across scales of kilometers begs for an explanation of how populations and communities are distributed within those large spaces How big is a microbial community Where does one stop and another start Are there rules of organization of the communities into spatially discrete patches and can those patches be correlated with observed processes and process rates Over the years I have added what I tell my classes are Mills Corollaries to Wodzinski's Laws With respect to the topic of this volume the corollaries to the first law are 1a But there are a whole lot of them and 1b They can grow very very fast Again distribution in space and time is a central theme and it has motivated much of my effort over the last 30 years **SIMBIOS Project 2002 Annual Report** Giulietta S. Fargion, 2003 *Ocean Optics Protocols for Satellite Ocean Color Sensor Validation, Revision 4*, 2003 *SIMBIOS Project 2001 Annual Report* Giulietta S. Fargion, 2002 **Fractals and Multifractals in Ecology and Aquatic Science** Laurent Seuront, 2009-10-12 Ecologists sometimes have a less than rigorous background in quantitative methods yet research within this broad field is becoming increasingly mathematical Written in a step by step fashion *Fractals and Multifractals in Ecology and Aquatic Science*

provides scientists with a basic understanding of fractals and multifractals and the techniques for Enclosed Experimental Ecosystems and Scale John E. Petersen, Victor S. Kennedy, William C. Dennison, W. Michael Kemp, 2010-01-23 Enclosed ecosystem experiments have gained in popularity as research tools in ecological science particularly in the study of coastal aquatic environments These systems provide scientists with a degree of experimental control that is not achievable through field experiments Yet to date techniques for systematically extrapolating results from small scale experimental ecosystems to larger deeper more open more biologically diverse and more heterogeneous ecosystems in nature have not been well developed Likewise researchers have lacked methods for comparing and extrapolating information among natural ecosystems that differ in scale Enclosed Experimental Ecosystems and Scale Tools for Understanding and Managing Coastal Ecosystems provides scientists managers and policy makers with an introduction to what has been termed the problem of scale and presents information that will allow for improved design and interpretation of enclosed experimental aquatic ecosystems The book integrates the results of a 10 year research project involving a multi disciplinary team of scientists and students to explore scale related questions in a variety of coastal habitats Anticipating use as a reference the book has been designed so that individual sections and individual pages can function as stand alone units **Fish Population Dynamics, Monitoring, and Management** Ichiro Aoki, Takashi Yamakawa, Akinori Takasuka, 2018-05-22 This book explores how we can solve the urgent problem of optimizing the use of variable uncertain but finite fisheries resources while maintaining sustainability from a marine ecosystem conservation perspective It offers readers a broad understanding of the current methods and theory for sustainable exploitation of fisheries resources and introduces recent findings and technological developments The book is divided into three parts Part I discusses fish stock dynamics and illustrates how ecological processes affecting life cycles and biological interactions in marine environments lead to fish stock variability in space and time in major fish groups small pelagic fish demersal fish and large predatory fish These insights shed light on the mechanisms underlying the variability in fish stocks and form the essential biological basis for fisheries management Part II addresses the technologies and systems that monitor changes in fisheries resources and marine ecosystems using two approaches fishery dependent and fishery independent data It also describes acoustic surveys and biological sampling as well as stock assessment methods Part III examines management models for effectively assessing the natural variability in fisheries resources The authors explore ways of determining the allowable catch in response to changes in stock abundance and how to incorporate ecological processes and monitoring procedures into management models This book offers readers a broad understanding of sustainable exploitation as well as insights into fisheries management for the next generation

Small Scale Spatial and Temporal Patterns in Particles, Plankton, and Other Organisms Aditya R.

Nayak, Houshuo Jiang, Lee Karp-Boss, James Michael Sullivan, David Murphy, Margaret Byron, Malcolm McFarland, 2021-05-14

Fluid Mechanics of Plankton Hidekatsu Yamazaki, J. Rudi Strickler, 2021-06-10 The cooperation between plankton

biologists and fluid dynamists has enhanced our knowledge of life within the plankton communities in ponds lakes and seas This book assembled contributions on plankton flow interactions with an emphasis on syntheses and or predictions However a wide range of novel insights reasonable scenarios and founded critiques are also considered in this book

Individual-based Modeling and Ecology Volker Grimm, Steven F. Railsback, 2013-11-28 Individual based models are an exciting and widely used new tool for ecology These computational models allow scientists to explore the mechanisms through which population and ecosystem ecology arises from how individuals interact with each other and their environment This book provides the first in depth treatment of individual based modeling and its use to develop theoretical understanding of how ecological systems work an approach the authors call individual based ecology Grimm and Railsback start with a general primer on modeling how to design models that are as simple as possible while still allowing specific problems to be solved and how to move efficiently through a cycle of pattern oriented model design implementation and analysis Next they address the problems of theory and conceptual framework for individual based ecology What is theory That is how do we develop reusable models of how system dynamics arise from characteristics of individuals What conceptual framework do we use when the classical differential equation framework no longer applies An extensive review illustrates the ecological problems that have been addressed with individual based models The authors then identify how the mechanics of building and using individual based models differ from those of traditional science and provide guidance on formulating programming and analyzing models This book will be helpful to ecologists interested in modeling and to other scientists interested in agent based modeling

Environmental Constraints Upon Locomotion and Predator-prey Interactions in Aquatic Organisms Paolo Domenici, Ricard V. Solé, Guy Claireaux, Steen Rasmussen, David John McKenzie, Mark Bedau, 2007 An Introduction to Fish Migration Pedro Morais, Francoise Daverat, 2016-04-21 Since the publication of *The Migrations of Fish* by Prof Alexander Meek in 1916 a number of books have been published on this subject However most of these books only cover one type of migratory mechanisms This book aims to overcome this drawback by presenting a comprehensive coverage of all life history strategies potadromy anadromy catadrom

PNEC Jacques Clavier, Michel Joanny, François Carlotti, 2006
Canadian Journal of Fisheries and Aquatic Sciences, 2012

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