SCALING METHODS IN AQUATIC ECOLOGY

MEASUREMENT, ANALYSIS, SIMULATION



EDITED BY LAURENT SEURONT PETER G. STRUTTON



Handbook Of Scaling Methods In Aquatic Ecology Measurement Analysis Simulation

Giulietta S. Fargion

Handbook Of Scaling Methods In Aquatic Ecology Measurement Analysis Simulation:

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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 s cessful functioning of diverse and complicated ecosystems each with va ous 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 und standing 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 fu tioning It is dif cult enough to understand how an ecosystem functions when it is considered in isolation but all ecosystems are open and c nected to everything else Clearly the inputs to any ecosystem are the oputs from others and vice versa and as such the uxes represent major if not critical points for managing or changing the overall functioning of an ecosystem or landscape A major challenge is to nd appropriate conceptual frameworks to address these complicated problems Spatial Distribution of Microbes in the Environment Rima Franklin, Aaron Mills, 2007-09-04 In my first microbiology class in 1968 Richard Wodzinki 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 p cesses 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 Corrolaries 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 fo 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.

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