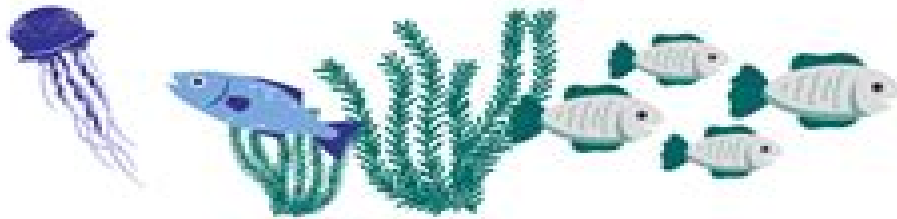
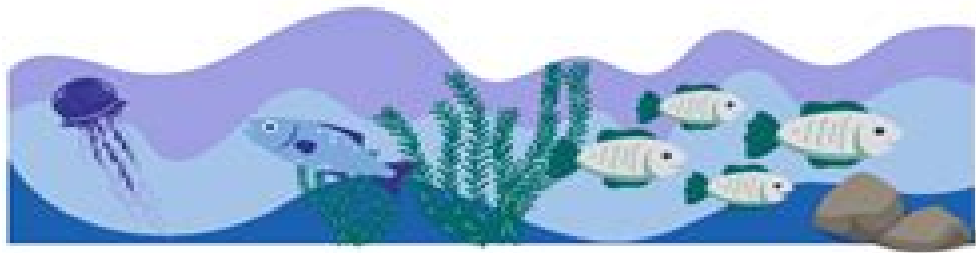


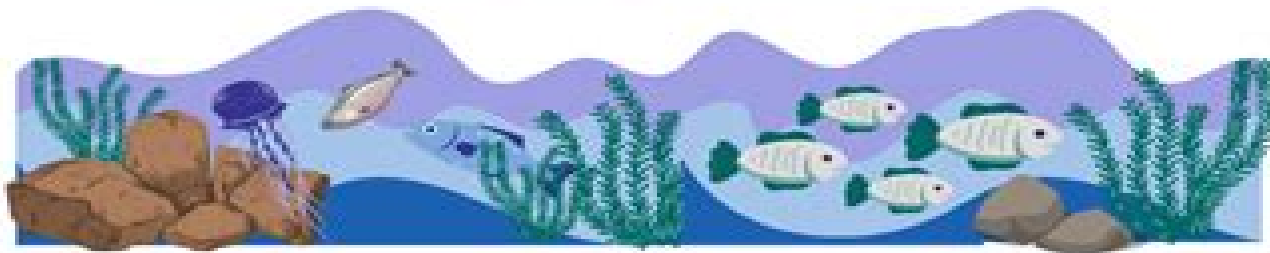
Individual
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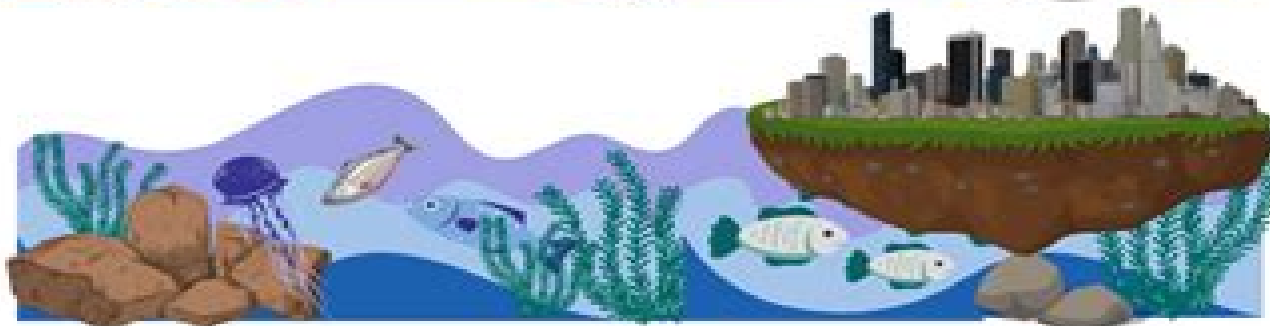
Community



Ecosystem



Biome



Biosphere

Studies In Mathematical Biology Part 2 Populations And Communities

Samuel A. Cushman, Falk Huettmann



Studies In Mathematical Biology Part 2 Populations And Communities:

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Theory Marcus Feldman, 2014-07-14 An international group of distinguished scientists presents an up to date survey of quantitative problems at the forefront of modern evolutionary theory Their articles illustrate results from the latest research in population and behavioral genetics molecular evolution and ecology Each author gives careful attention to the exposition of the models the logic of their analysis and the legitimacy of qualitative biological inferences The topics covered include stochastic models of finite populations and the sorts of diffusion approximations that are valid for their study models of migration kin selection geneculture coevolution sexual selection life history evolution the statistics of linkage disequilibrium and the molecular evolution of repeated DNA sequences and the HLA system in humans The fourteen contributions are presented in two sections Part I Stochastic and Deterministic Genetic Theory and Part II Behavior Ecology and Evolutionary Genetics Marcus W Feldman provides an introduction to each part The contributors are J G Bodmer W F Bodmer L L Cavalli Sforza F B Christiansen C Cockerham W J Ewens M W Feldman J H Gillespie R R Hudson N L Kaplan S Lessard U Liberman M E N Majerus P O Donald J Roughgarden S Tavar M K Uyenoyama G A Watterson and B Weir Originally published in 1989 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

World Congress of Nonlinear Analysts '92 V. Lakshmikantham, 2011-11-14 No detailed description available for World Congress of Nonlinear Analysts 92

Analytical Biogeography A.A. Myers, P. Giller, 2013-12-11 Biogeography may be defined simply as the study of the geographical distribution of organisms but this simple definition hides the great complexity of the subject Biogeography transcends classical subject areas and involves a range of scientific disciplines that includes geogra phy geology and biology Not surprisingly therefore it means rather different things to different people Historically the study of biogeogra phy has been concentrated into compartments at separate points along a spatio temporal gradient At one end of the gradient ecological biogeography is concerned with ecological processes occurring over short temporal and small spatial scales whilst at the other end historical biogeography is concerned with evolutionary processes over millions of years on a large often global scale Between these end points lies a third major compartment concerned with the profound effects of Pleistocene glaciations and how these have affected the distribution of recent organisms Within each of these compartments along the scale gradient a large number of theories hypotheses and models have been proposed in an attempt to explain the present and past biotic distribution patterns To a large extent these compartments of the subject have been non interactive which is understandable from the different interests and backgrounds of the various researchers Nevertheless the distribu tions of organisms across the globe cannot be fully understood without a knowledge of the full spectrum of ecological and historical processes There are no degrees in

biogeography and today's biogeographers are primarily born out of some other discipline Spatial Complexity, Informatics, and Wildlife Conservation Samuel A. Cushman, Falk Huettmann, 2009-12-21 As Earth faces the greatest mass extinction in 65 million years the present is a moment of tremendous foment and emergence in ecological science With leaps in advances in ecological research and the technical tools available scientists face the critical task of challenging policymakers and the public to recognize the urgency of our global crisis This book focuses directly on the interplay between theory data and analytical methodology in the rapidly evolving fields of animal ecology conservation and management The mixture of topics of particular current relevance includes landscape ecology remote sensing spatial modeling geostatistics genomics and ecological informatics The greatest interest to the practicing scientist and graduate student will be the synthesis and integration of these topics to provide a composite view of the emerging field of spatial ecological informatics and its applications in research and management

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