Biogeography Recent Advances And Future Directions

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The Dwarf and Mouse Lemurs of Madagascar Shawn M. Lehman 2016-04-07 The dwarf and mouse lemur species of Madagascar are two very species-rich lemur genera, yet there is a relative paucity of information on this primate family in published literature. In this first ever treatment of the Cheirogaleidae, international experts are brought together to review and integrate our current knowledge of the behaviour, physiology, ecology, genetics and biogeography of these species. A wide range of direct and indirect research methods that are currently used to study these cryptic nocturnal solitary foragers are described. By uniting often disparate research on captive and free-ranging taxa and synthesising recent methodological advances, this book provides new insights that will encourage further studies of this fascinating primate family. This synthesis will provide an incentive for more integrative studies of the Cheirogaleidae in captivity and in the wild, enabling the impacts of deforestation and other factors to be identified and directions for future conservation efforts to be established.

Frontiers of Biogeography Mark V. Lomolino 2004-01-01 Developed & published in association with the International Biogeography Society, this book concentrates on advances in historical biogeography, island biogeography & marine biogeography during the past quarter of a century.

The SAGE Handbook of Biogeography Andrew Millington 2011-09-22 "A superb resource for understanding the diversity of the modern discipline of biogeography, and its history and future, especially within geography departments. I expect to refer to it often." - Professor Sally Horn, University of Tennessee "As you browse through this fine book you will be struck by the diverse topics that biogeographers investigate and the many research methods they use.... Biogeography is interdisciplinary, and a commonly-voiced concern is that one biogeographer may not readily understand another’s research findings. A handbook like this is important for synthesising, situating, explaining and evaluating a large literature, and pointing the reader to informative publications." - Geographical Research "A valuable contribution in both a research and teaching context. If you are biologically trained, it provides an extensive look into the geographical tradition of biogeography, covering some topics that may be less familiar to those with an evolution/ecology background. Alternatively, if you are a geography student, researcher, or lecturer, it will provide a useful reference and will be invaluable to the non-biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them." - Adam C. Algar, Frontiers of Biogeography The SAGE Handbook of Biogeography is a manual for scoping the past, present and future of biogeography that will: Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences. Aimed at an international audience of research students, academics, researchers and practitioners in biogeography, the text will attract interest from environmental scientists, ecologists, biologists and geographers alike.

Physical Geography of the Global Environment Harm J. de Blij 1992-08-28 Devoted to our planet’s natural surroundings, emphasizing the growing concern for environmental issues especially in the area of human/environment interactions. Relates physical geography to other natural and physical sciences,
introducing system and modeling approaches. Topics run the gamut from clouds, ocean waves, soils and forests to rocks, minerals, deserts and barren wastes. Material is organized into 52 focused units approximately 10-15 pages each. Features a copious amount of photographs and illustrations.

**Advances in Industrial and Production Engineering** Kripa Shanker 2019-04-23 This book comprises select proceedings of the International Conference on Future Learning Aspects of Mechanical Engineering (FLAME 2018). The book discusses different topics of industrial and production engineering such as sustainable manufacturing systems, computer-aided engineering, rapid prototyping, manufacturing management and automation, metrology, manufacturing process optimization, casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as professionals.

**Myxomycetes** Carlos Rojas 2021-09-19 Myxomycetes: Biology, Systematics, Biogeography and Ecology, Second Edition provides a complete collection of general and technical information on myxomycetes microorganisms. Its broad scope takes an integrated approach, considering a number of important aspects surrounding their genetics and molecular phylogeny. The book treats myxomycetes as a distinct group from fungi and includes molecular information that discusses systematics and evolutionary pathways. Written and developed by an international team of specialists, this second edition contains updated information on all aspects of myxomycetes. It incorporates relevant and new material on current barcoding developments, plasmodial network experimentation, and non-STEM disciplinary assimilation of myxomycete information. This book is a unique and authoritative resource for researchers in organismal biology and ecology disciplines, as well as students and academics in biology, ecology, microbiology, and similar subject areas. Written in a simple, concise and relatively non-technical style, allowing for a broad readership within biological, environmental and life science programs at academic and research institutions. Contains the comprehensive body of information available on myxomycetes under one cover, with contributions from the leading authorities in their respective areas of expertise. Provides straightforward, compiled information about myxomycetes and the potential of this group for basic and applied research. Offers completely updated material in every chapter, including new material on barcoding and Physarum polycephalum biological factors. The Cumulative Book Index 1985 A world list of books in the English language. The Unified Neutral Theory of Biodiversity and Biogeography (MBP-32) Stephen P. Hubbell 2011-06-27 Despite its supreme importance and the threat of its global crash, biodiversity remains poorly understood both empirically and theoretically. This ambitious book presents a new, general neutral theory to explain the origin, maintenance, and loss of biodiversity in a biogeographic context. Until now biogeography (the study of the geographic distribution of species) and biodiversity (the study of species richness and relative species abundance) have had largely disjoint intellectual histories. In this book, Stephen Hubbell develops a formal mathematical theory that unifies these two fields. When a speciation process is incorporated into Robert H. MacArthur and Edward O. Wilson’s now classical theory of island biogeography, the generalized theory predicts the existence of a universal, dimensionless biodiversity number. In the theory, this fundamental biodiversity number, together with the migration or dispersal rate, completely determines the steady-state distribution of species richness and relative species abundance on local to large geographic spatial scales and short-term to evolutionary time scales. Although neutral, Hubbell’s theory is nevertheless able to generate many nonobvious, testable, and remarkably accurate quantitative predictions about biodiversity and biogeography. In many ways Hubbell’s theory is the ecological analog to the neutral theory of genetic drift in genetics. The unified neutral theory of biogeography and biodiversity should stimulate research in new theoretical and empirical directions by ecologists, evolutionary biologists, and biogeographers. The Historical Biogeography and Phylogeny of Sika Deer (Cervus nippon) in East Asia Charles Eugene Cook 1993 Biogeography and Evolution in New Zealand Michael Heads 2016-10-04 Biogeography and Evolution in New Zealand provides the first in-depth treatment of the biogeography of New Zealand, a region that has been a place of long-enduring interest to ecologists, evolutionary scientists, geographers, geologists, and scientists in related disciplines. It serves as a key addition to the contemporary discussion on regionalization—how is New Zealand different from the rest of the world? What with other areas does it share its geology, history, and biota? Do new molecular phylogenies show that New Zealand may be seen as a biological “parallel universe” within global evolution? Biodiversity and Conservation of Neotropical Montane Forests Steven P. Churchill 1995 “Uneven collection of 60 papers; most concern Andean mountain flora, forests, and habitats. Several papers focus on human modifications”—Handbook of Latin American Studies, v. 57. Biogeography C. Barry Cox 2020-01-07 Through nine successful editions, and for over 45 years, Biogeography: An Ecological and Evolutionary Approach has provided a thorough and comprehensive exploration of the varied scientific disciplines and research that are essential to understanding the subject. The text, noted for its clear and engaging style of writing, has been praised for its solid background in historical biogeography and basic biology, that is enhanced and illuminated by discussions of current research. This new edition incorporates the exciting changes of the recent years and presents a thoughtful exploration...
of the research and controversies that have transformed our understanding of the biogeography of the world. New themes and topics in this tenth edition include: Next generation genetic technologies and their use in historical biogeography, phylogeography and population genomics Biogeographical databases and biodiversity information systems, which are becoming increasingly important for biogeographical research. An introduction to functional biogeography and its applications to community assembly, diversity gradients and the analysis of ecosystem functioning. Updated case studies focusing on island biogeography, using the latest phylogenetic studies. Biogeography: An Ecological and Evolutionary Approach reveals how the patterns of life that we see today have been created by the two great Engines of the Planet: the Geological Engine, plate tectonics, which alters the conditions of life on the planet, and the Biological Engine, evolution, which responds to these changes by creating new forms and patterns of life.

Biogeography James Allan Taylor 1984 Biogeography has been one of the great growth areas in geography in recent years, with much new research work and many new developments taking place. This book presents an authoritative, up-to-date, international review of all the major biogeographical themes. The chapters define each theme and its place within biogeography and consider the methods of study adopted. Each chapter then assesses recent trends and the latest state of the art, and concludes by examining where future developments are likely. Many case-studies and examples are provided, from throughout the world, including North America.

Landscape Heterogeneity and Disturbance Monica G. Turner 2012-12-06 Landscape pattern is generated by a variety of processes, including disturbances. In turn, the heterogeneity of the landscape may enhance or retard the spread of disturbance. The complex relationship between landscape pattern and disturbance is the subject of this book. It is designed to present an illustrative analysis of the topic, presenting the perspectives of several different disciplines. The book includes conceptual considerations, empirical studies, and management examples. Important features include: hypotheses about the spread of disturbance and the effects of scale changes in landscape studies; the multidisciplinary approach; and the explicit focus on the landscape level. The intended audience comprises graduate students, academics, and professionals interested in landscape ecology. The reader will receive a state-of-the-art treatment of a current topic in landscape ecology.

Biogeography Eric Guilbert 2022-01-06 The recent progress in analytical methods, aided by bringing in a wide range of other disciplines, opens up the study to a broader field, which means that biogeography now goes far beyond a simple description of the distribution of living species on Earth. Originating with Alexander von Humboldt, biogeography is a discipline in which ecologists and evolutionists aim to understand the way that living species are organized in connection with their environments. Today, as we face major challenges such as global warming, massive species extinction and devastating pandemics, biogeography offers hypotheses and explanations that may help to provide solutions. This book presents an overview as possible of the different fields that biogeography interacts with. Sixteen authors from all over the world offer different approaches based on their specific areas of knowledge and experience; thus, we intend to illustrate the vast number of diverse aspects covered by biogeography.

Global Biogeography John C. Briggs 1995 This book significantly expands the coverage of this subject given by its predecessor Biogeography and Plate Tectonics (1987). Global Biogeography traces global changes in geography and biology from the Precambrian to the Recent (with worldwide coverage in chronological order); examines the evolutionary effects of the major extinctions, and discusses contemporary biogeographic regions within the context of their historic origins. It is now apparent that the biotas of the various biogeographical regions have had, and still maintain, a dynamic relationship with one another; much more than was previously thought. This is shown to be true for all three of the earth’s primary habitats; marine, terrestrial and freshwater (as is clearly demonstrated in this volume). The book is splendidly illustrated with 122 text figures, an extensive bibliography, index, together with a set of biogeographic maps illustrating continental and terrain outlines from the mid-Cambrian to the Recent. University students (both advanced undergraduate and graduate level) will find it an excellent textbook. For professionals in Biogeography this is a convenient reference work.

Recent Publications in Natural History 1985 Recent Advances in Freshwater Crustacean Biodiversity and Conservation Tadashi Kawai 2021-03-08 Recent Advances in Freshwater Crustacean Biodiversity and Conservation focuses on minor crustacean groups and regionally endemic groups, all from freshwaters. Chapters in this book cover crustaceans such as Maxillopods, Mysids, Cumaceans, Isopods, Amphipods, Branchiopods, Copepods, and Decapods. Each looks at global or regional fauna and discusses conservation issues for that group. The majority of the chapters are based on papers presented at symposia organized by the editors at two international scientific meetings held in Barcelona and Washington DC. The contributors are world-renowned experts on their groups, as well as on freshwater crustacean conservation and biodiversity at global levels. It has previously been difficult for conservation managers, NGOs, and university professors and students who may not have access to comprehensive journal...
Biogeography, the study of geographic variation in all characteristics of life - ranging from genetic, morphological and behavioural variation among regional populations of a species, to geographic trends in diversity of entire communities across our planet’s surface. From the ancient hunters and gatherers to the earliest naturalists, Charles Darwin, Alfred Rusell Wallace, and scientists today, the search for patterns in life has provided insights that proved invaluable for understanding the natural world. And many, if not most, of the compelling kaleidoscope of patterns in biological diversity make little sense unless placed in an explicit geographic context. The Very Short Introduction explains the historical development of the field of biogeography, its fundamental tenets, principles and tools, and the invaluable insights it provides for understanding the diversity of life in the natural world. As Mark Lomolino shows, key questions such as where species occur, how they vary from place to place, where their ancestors occurred, and how they spread across the globe, are essential for us to develop effective strategies for conserving the great menagerie of life across our planet.

ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Current Geographical Publications

University of Wisconsin–Milwaukee Library

1986 Current Geographical Publications (CGP) is a non-profit service to the scholarly community initiated in 1938 by the American Geographical Society of New York. Beginning in 2006, the format changed to include the tables of contents of current geographical journals. The journal titles listed link to web pages or PDF scans of the current issue’s contents.

Reinvention of Australasian Biogeography

Malte Ebach 2017-01-20

Biogeography, the study of the distribution of life on Earth, has undergone more conceptual changes, revolutions and turf wars than any other scientific field. Australasian biogeographers are responsible for several of these great upheavals, including debates on cladistics, panbiogeography and the drowning of New Zealand, some of which have significantly shaped present-day studies. Australasian biogeography has been caught in a cycle of reinvention that has lasted for over 150 years. The biogeographic research making headlines today is merely a shadow of past practices, having barely advanced scientifically. Fundamental biogeographic questions raised by naturalists a century ago remain unanswered, yet are as relevant today as they were then. Scientists still do not know whether Australia and New Zealand are natural biotic areas or if they are in fact artificial amalgamations of areas. The same question goes for all biotic areas in Australasia: are they real? Australasian biogeographers need to break this 150-year cycle, learn from their errors and build upon new ideas. Reinvention of Australasian Biogeography tells the story of the history of Australasian biogeography, enabling understanding of the cycle of reinvention and the means by which to break it, and paves the way for future biogeographical research. The book will be a valuable resource for biological and geographical scientists, especially those working in biogeography, biodiversity, ecology and conservation. It will also be of interest to historians of science.

A Companion to Biological Anthropology

Clark Spencer Larsen 2010-02-22

An extensive overview of the rapidly growing field of biological anthropology; chapters are written by leading scholars who havethemselves played a major role in shaping the direction and scope of the discipline. Extensive overview of the rapidly growing field of biological anthropology Larsen has created a who's who of biologicalanthropology, with contributions from the leading authorities in the field Contributing authors have played a major role in shaping the direction and scope of the topics they write about. Offers discussions of current issues, controversies, and future directions within the area. Presents coverage of the many recent innovations and discoveries that are transforming the subject.

Dictionary of Concepts in Physical Geography

Thomas Patrick Huber 1988

“More than a dictionary of concepts in physical geography, this book includes a variety of analyses reaching back to origins of terms, making the work of interest to intellectual historians. . . . Highly recommended for upper division and graduate students, as well as general readers.”
broad-ranging impacts on the fields of plant biology, mycology, crop science, and ecology. Molecular Mycorrhizal Symbiosis will open with introductory chapters on the biology, structure and phylogeny of the major types of mycorrhizal symbioses. Chapters then review different molecular mechanisms driving the development and functioning of mycorrhizal systems and molecular analysis of mycorrhizal populations and communities. The book closes with chapters that provide an overall synthesis of field and provide perspectives for future research. Authoritative and timely, Molecular Mycorrhizal Symbiosis, will be an essential reference from those working in plant and fungal biology. Regulating Campaign Finance Lloyd N. Cutler 1986 Since 1889, The American Academy of Political and Social Science has served as a forum for the free exchange of ideas among the well-informed and intellectually curious. In this era of specialization, few scholarly periodicals cover the scope of societies and politics. The ANNALS. Each volume is guest edited by outstanding scholars and experts in the topics studied and presents more than 200 pages of timely, in-depth research on a significant topic of concern-- http://ann.sagepub.com. Models for Planning Wildlife Conservation in Large Landscapes Joshua Millsapugh 2011-04-28 A single-resource volume of information on the most current and effective techniques of wildlife modeling, Models for Planning Wildlife Conservation in Large Landscapes is appropriate for students and researchers alike. The unique blend of conceptual, methodological, and application chapters discusses research, applications and concepts of modeling and presents new ideas and strategies for wildlife habitat models used in conservation planning. The book makes important contributions to wildlife conservation of animals in several ways: (1) it highlights historical and contemporary advancements in the development of wildlife habitat models and their implementation in conservation planning; (2) it provides practical advice for the ecologist conducting such studies; and (3) it supplies directions for future research including new strategies for successful studies. Intended to provide a recipe for successful development of wildlife habitat models and their implementation in conservation planning, the book could be used in studying wildlife habitat models, conservation planning, and management techniques. Additionally it may be a supplemental text in courses dealing with quantitative assessment of wildlife populations. Additionally, the length of the book would be ideal for graduate student seminar course. Using wildlife habitat models in conservation planning is of considerable interest to wildlife biologists. With ever tightening budgets for wildlife research and planning activities, there is a growing need to use computer methods. Use of simulation models represents the single best alternative. However, it is imperative that these techniques be described in a single source. Moreover, biologists should be made aware of alternative modeling techniques. It is also important that practical guidance be provided to biologists along with a demonstration of utility of these procedures. Currently there is little guidance in the wildlife or natural resource planning literature on how best to incorporate wildlife planning activities, particularly community-based approaches. Now is the perfect time for a synergistic publication that clearly outlines the concepts and available methods, and illustrates them. Only single resource book of information not only on various wildlife modeling techniques, but also with practical guidance on the demonstrated utility of each based on real-world conditions. Provides concepts, methods and applications for wildlife ecologists and others within a GIS context. Written by a team of subject-area experts Choice 2004 Historical Biogeography Jorge CRISCI 2009-06-30 Though biogeography may be simply defined--the study of the geographic distributions of organisms--the subject itself is extraordinarily complex, involving a range of scientific disciplines and a bewildering diversity of approaches. For convenience, biogeographers have recognized two research traditions: ecological biogeography and historical biogeography. This book makes sense of the profound revolution that historical biogeography has undergone in the last two decades, and of the resulting confusion over its foundations, basic concepts, methods, and relationships to other disciplines of comparative biology. Using case studies, the authors explain and illustrate the fundamentals and the most frequently used methods of this discipline. They show the reader how to tell when a historical biogeographic approach is called for, how to decide what kind of data to collect, how to choose the best method for the problem at hand, how to perform the necessary calculations, how to choose and apply a computer program, and how to interpret results. Recent Advances in Proteomics Research Sameh Magdeldin 2015-11-11 Proteomics refers to the entire complement of proteins, including modification. This promising discipline has enabled us to study proteins from a massive and comprehensive point of view. The book Recent Advances in Proteomics Research describes in five sections some of the applications of proteomics. This fine research has been written by leading experts worldwide. This book is aimed mainly at those interested in proteins and in the field of proteins, particularly biochemists, biologists, pharmacists, advanced graduate students and postgraduate researchers.
Quaternary Ecology, Evolution, and Biogeography is an introduction on the study of the ecological and evolutionary processes that have shaped our present biosphere under the influence of glacial-interglacial cycles. Written by a renowned ecologist with paleoecological expertise, the book reviews the climactic changes that have occurred during the last million years, along with the responses of organisms and ecosystems. The book offers an understanding of the evolutionary origin of extant biodiversity, its biogeographical patterns, and the composition of modern ecological communities. In addition, it explores human evolution and the influence of our activities on the biosphere, especially in the last millennia. The valuable resource is intended for a wide audience, including researchers and students in natural sciences. It offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future.

Modern Geography Gary S. Dunbar 2016-02-05 This book charts the developments in the discipline of geography from the 1950s to the 1980s, examining how geography now connects with urban, regional and national planning, and impacts on areas such as medicine, transport, agricultural development and electoral reform. The book also discusses how technical and theoretical advancements have generated a renewed sense of philosophic reflection – a concern closely linked with the critical examination and development of social theory.

The Biogeography of the Island Region of Western Lake Erie Jerry F. Downhower 1988

Summaries of Projects Completed in Fiscal Year ...

Geography in America at the Dawn of the 21st Century Gary L. Gaile 2004 Surveys American geographers’ current research in their specialty areas and tracks trends and innovations in the subfields of geography. Based on a process of review and revision, it is both a ‘state of the discipline’ assessment and a topical reference. The authors were chosen by their specialty groups of the American Association of Geographers.

The Evolutionary Ecology of Invasive Species Johannes Le Roux 2021-10-24 The Evolutionary Ecology of Invasive Species offers new insights into the mechanisms that underlie rapid evolution in these species. The book provides a comprehensive overview of achievements in the field during the boom of information over the past two decades and includes discussions of possible future directions for the study of evolution in invasive species. Written by an international expert in invasion ecology, population genetics, and evolutionary biology, the book explores the roles of preadaptation, phenotypic plasticity, selection, and stochastic processes in driving rapid evolution. The book draws insights from a wide spectrum of invasive microbes, plants, and animals, covering many of the planet’s biogeographic regions and discusses the evolutionary consequences for native species in response to biological invasions. A valuable resource to researchers and students in evolutionary biology, invasive species biology, and global change biology, this text suggests future research directions related to the evolutionary biology, impacts, and management of invasive species. Highlights the most recent advances and developments in using evolutionary principles to study and manage invasive species Offers new and often overlooked insights in processes that govern rapid evolution Discusses key stages of population demography that underlie rapid evolutionary change in invasive species, including their introduction, naturalisation, and dispersal

Conservation Biogeography Richard Ladle 2011-06-09 The Earth’s ecosystems are in the midst of an unprecedented period of change as a result of human action. Many habitats have been completely destroyed or divided into tiny fragments, others have been transformed through the introduction of new species, or the extinction of native plants and animals, while anthropogenic climate change now threatens to completely redraw the geographic map of life on this planet. The urgent need to understand and prescribe solutions to this complicated and interlinked set of pressing conservation issues has lead to the transformation of the venerable academic discipline of biogeography — the study of the geographic distribution of animals and plants. The newly emerged sub-discipline of conservation biogeography uses the conceptual tools and methods of biogeography to address real world conservation problems and to provide predictions about the fate of key species and ecosystems over the next century. This book provides the first comprehensive review of the field in a series of closely interlinked chapters addressing the central issues within this exciting and important subject. View [http://www.wiley.com/go/ladle/biogeography](http://www.wiley.com/go/ladle/biogeography) to access the figures from the book.