

# Biogeography

Biological Diversity across Space and Time

Fifth Edition



Mark V. Lomolino • Brett R. Riddle • Robert J. Whittaker

# Biogeography Fourth Edition Lomolino

**Ying-Ying Zheng**



## **Biogeography Fourth Edition Lomolino:**

*Biogeography* Mark V. Lomolino, Brett R. Riddle, Robert J. Whittaker, James H. Brown, 2010 Assuming little prior knowledge Biogeography explains the relationships between geographic variation in biodiversity and the geological ecological and evolutionary processes that shape it The Fourth Edition builds on the strengths of previous ones illustrating ideas with examples of plants and animals across aquatic and terrestrial ecosystems *Biogeography (4th ed.)*. Mark V. Lomolino, 2010 [Biogeography: A Very Short Introduction](#) Mark V. Lomolino, 2020-07-23 Biogeography is 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 Russel 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

**Mammalogy** George A. Feldhamer, Lee C. Drickamer, Stephen H. Vessey, Joseph F. Merritt, Carey Krajewski, 2015-01-01 Reflecting the expertise and perspective of five leading mammalogists the fourth edition of *Mammalogy* Adaptation Diversity Ecology significantly updates taxonomy includes a new chapter on mammalian molecular phylogenetics and highlights several recently described species There are close to 5 500 species in the class Mammalia including the blue whale the largest animal that has ever lived and the pygmy shrew which weighs little more than a penny The functional diversity of mammals has allowed them to play critical roles in every ecosystem whether marine freshwater alpine tundra forest or desert Many mammal species are critically endangered and present complex conservation and management challenges This book touches on those challenges which are often precipitated by overharvesting and habitat loss as well as emerging threats such as the impact of wind turbines and white nose syndrome on bats and chronic wasting disease on deer Among the updates and additions to the fourth edition of *Mammalogy* are numerous new photos figures and cladograms over 4 200 references as well as A completely new chapter on mammalian phylogeny and genomics Current taxonomy including major changes to orders suborders and superfamilies of

bats and rodents An explanation of the recent inclusion of whales with terrestrial even toed ungulates Updates on mammalian structural functional adaptations and fossil history recent advances in our understanding of phylogeny biogeography social behavior and ecology A discussion of two new orders and thirteen newly recognized extant families Reflections on the implications of climate change for mammals Thorough examinations of several recently described species including Durrell's *Salanoia durrelli* and the Laotian rock rat *Laonastes aenigmamus* An explanation of mammalian biomechanics such as that seen in lunge feeding of baleen whales Breakout boxes on unique aspects of mammals including the syntax of bat songs singing mice and why there are no green mammals unless we count algae covered sloths Maintaining the accessible readable style for which Feldhamer and his coauthors are well known this new edition of *Mammalogy* is the authoritative textbook on this amazingly diverse class of vertebrates

**Paleozoology and Paleoenvironments** J. Tyler Faith, R. Lee Lyman, 2019-02-21 *Paleozoology and Paleoenvironments* outlines the reconstruction of ancient climates floras and habitats on the basis of animal fossil remains recovered from archaeological and paleontological sites In addition to outlining the ecological fundamentals and analytical assumptions attending such analyses J Tyler Faith and R Lee Lyman describe and critically evaluate many of the varied analytical techniques that have been applied to paleozoological remains for the purpose of paleoenvironmental reconstruction These techniques range from analyses based on the presence or abundance of species in a fossil assemblage to those based on taxon free ecological characterizations All techniques are illustrated using faunal data from archaeological or paleontological contexts Aimed at students and professionals this volume will serve as fundamental resource for courses in zooarchaeology paleontology and paleoecology

**Biogeography** James H. Brown, Arthur C. Gibson, 1983 *Biogeography* Second Edition combines ecological and historical perspectives to show how contemporary environments earth history and evolutionary processes have shaped the distributions of species and the patterns of biodiversity It illustrates general patterns and processes using examples from different groups of plants and animals from diverse habitats and geographic regions Written primarily for use in undergraduate and graduate courses in plant and or animal geography the book serves as a general synthesis and reference as well

*Essentials of Landscape Ecology* Kimberly A. With, 2019-07-01 Human activity during the Anthropocene has transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces Landscape ecology has emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems from the effects of habitat or resource distributions on the individual movements gene flow and population dynamics of plants and animals to the human alteration of landscapes affecting the structure of biological communities and the functioning of entire ecosystems to the sustainable management of natural resources and the ecosystem goods and services upon which society depends This novel and comprehensive text presents the principles theory methods and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a

variety of systems including freshwater and marine scapes

**Encyclopedia of Environmental Change** John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geoecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences

Official Meeting Program Ecological Society of America. Meeting, 2006 *Island Biogeography of Mammals* Lawrence R. Heaney, Bruce D. Patterson, 1986

**Community Dynamics of Insular Biotas in Space and Time** Ermias Tesfamichael Azeria, 2004 *Grzimek's Animal Life Encyclopedia: Insects* Bernhard Grzimek, 2003

**Biogeography of the Brittle Star *Ophioplocus Esmarki* (Echinodermata: Ophiuroidea)** Rhea Suzanne Presiado, 2005 **The American Naturalist**, 2006 Occasional Papers, 2000 **Proceedings of the California Academy of Sciences**, 2007 Vol 25 is composed entirely of the Alice Eastwood semi centennial publications no 1 18 of the California Academy of Sciences

**Extinction and Biogeography of Tropical Pacific Birds** David W. Steadman, 2006-10-15 Publisher Description *Proceedings of the Fourth Annual Scientific Conference* Tanzania Wildlife Research Institute. Annual Scientific Conference, 2003 Choice, 2005 **Isolated Vertebrate Communities in the Tropics** Zoologisches Forschungsinstitut und Museum Alexander Koenig. International Symposium, Zoologisches Forschungsinstitut und Museum Alexander Koenig, 2000

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