# Foundations Ecology II

Classic Papers with Commentaries





Thomas E. Miller and Joseph Travis

# Foundations Of Ecology Classic Papers With Commentaries

**Ecological Society of America** 

#### **Foundations Of Ecology Classic Papers With Commentaries:**

Foundations of Ecology Leslie A. Real, James H. Brown, 1991-10-15 Assembled here for the first time in one volume are forty classic papers that have laid the foundations of modern ecology Whether by posing new problems demonstrating important effects or stimulating new research these papers have made substantial contributions to an understanding of ecological processes and they continue to influence the field today The papers span nearly nine decades of ecological research from 1887 on and are organized in six sections foundational papers theoretical advances synthetic statements methodological developments field studies and ecological experiments Selections range from Connell's elegant account of experiments with barnacles to Watt's encyclopedic natural history from a visionary exposition by Grinnell of the concept of niche to a seminal essay by Hutchinson on diversity Six original essays by contemporary ecologists and a historian of ecology place the selections in context and discuss their continued relevance to current research This combination of classic papers and fresh commentaries makes Foundations of Ecology both a convenient reference to papers often cited today and an essential guide to the intellectual and conceptual roots of the field Published with the Ecological Society of America

Foundations of Ecology II Thomas E. Miller, Joseph Travis, 2022-09-06 For three decades Foundations of Ecology edited by Leslie A Real and James H Brown has served as an essential primer for graduate students and practicing ecologists giving them access to the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists Ecology has continued to evolve and ecologists Thomas E Miller and Joseph Travis offer here a freshly edited guide for a new generation of researchers The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding to theoretical advances Foundations of Ecology II includes facsimiles of forty six papers from this period alongside expert commentaries that discuss a total of fifty three key studies addressing topics of diversity predation complexity competition coexistence extinction productivity resources distribution and abundance The result is more than a catalog of historic firsts this book offers diverse perspectives on the foundational papers that led to today s ecological work Foundations of *Ecology* Leslie A. Real, James H. Brown, 2012-12-20 Assembled here for the first time in one volume are forty classic papers that have laid the foundations of modern ecology Whether by posing new problems demonstrating important effects or stimulating new research these papers have made substantial contributions to an understanding of ecological processes and they continue to influence the field today The papers span nearly nine decades of ecological research from 1887 on and are organized in six sections foundational papers theoretical advances synthetic statements methodological developments field studies and ecological experiments Selections range from Connell's elegant account of experiments with barnacles to Watt's encyclopedic natural history from a visionary exposition by Grinnell of the concept of niche to a seminal essay by Hutchinson on diversity Six original essays by contemporary ecologists and a historian of ecology place the selections in context and

discuss their continued relevance to current research This combination of classic papers and fresh commentaries makes Foundations of Ecology both a convenient reference to papers often cited today and an essential guide to the intellectual and conceptual roots of the field Published with the Ecological Society of America Foundations of Biogeography Mark V. Lomolino, Dov F. Sax, James H. Brown, 2004-07 Foundations of Biogeography provides facsimile reprints of seventy two works that have proven fundamental to the development of the field From classics by Georges Louis LeClerc Compte de Buffon Alexander von Humboldt and Charles Darwin to equally seminal contributions by Ernst Mayr Robert MacArthur and E O Wilson these papers and book excerpts not only reveal biogeography s historical roots but also trace its theoretical and empirical development Selected and introduced by leading biogeographers the articles cover a wide variety of taxonomic groups habitat types and geographic regions Foundations of Biogeography will be an ideal introduction to the field for beginning students and an essential reference for established scholars of biogeography ecology and evolution List of Contributors John C Briggs James H Brown Vicki A Funk Paul S Giller Nicholas J Gotelli Lawrence R Heaney Robert Hengeveld Christopher J Humphries Mark V Lomolino Alan A Myers Brett R Riddle Dov F Sax Geerat J Vermeij Robert J The Essential Naturalist Michael H. Graham, Joan Parker, Paul K. Dayton, 2011-05-15 Like nearly every area Whittaker of scholarly inquiry today the biological sciences are broken into increasingly narrow fields and subfields its practitioners divided into ecologists evolutionary biologists taxonomists paleontologists and much more But all these splintered pieces have their origins in the larger field of natural history and in this era where climate change and relentless population growth are irrevocably altering the world around us perhaps it s time to step back and take a new fresh look at the larger picture The Essential Naturalist offers exactly that a wide ranging eclectic collection of writings from more than eight centuries of observations of the natural world from Leeuwenhoek to E O Wilson from von Humboldt to Rachel Carson Featuring commentaries by practicing scientists that offer personal accounts of the importance of the long tradition of natural history writing to their current research the volume serves simultaneously as an overview of the field s long history and as an inspirational starting point for new explorations for trained scientists and amateur enthusiasts alike Using the Biological Literature Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries Using the Biological Literature A Practical Guide Fourth Edition is an annotated guide to selected resources in the biological sciences presenting a wide ranging list of important sources This completely revised edition contains numerous new resources and descriptions of all entries including textbooks The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature It covers both print and electronic resources including monographs journals databases indexes and abstracting tools websites and associations

providing users with listings of authoritative informational resources of both classical and recently published works With chapters devoted to each of the main fields in the basic biological sciences this book offers a guide to the best and most up to date resources in biology. It is appropriate for anyone interested in searching the biological literature from undergraduate students to faculty researchers and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web based resources up to date a popular feature continued from the third edition. Foundations of Animal Behavior Lynne D. Houck, Lee C. Drickamer, Animal Behavior Society, 1996-08 Beginning with Darwin's work in the 1870s. Foundations of Animal Behavior selects the most important works from the discipline's first hundred years forty four classic papers and presents them in facsimile tracing the development of the field. These papers are classics because they either founded a line of investigation established a basic method or provided a new approach to an important research question. The papers are divided into six sections each introduced by prominent researchers. Sections one and two cover the origins and history of the field and the emergence of basic methods and approaches. They provide a background for sections three through six which focus on development and learning neural and hormonal mechanisms of behavior sensory processes orientation and communication and the evolution of behavior. This outstanding collection will serve as the basis for undergraduate and graduate seminars and as a reference for researchers in animal behavior whether they focus on ethology behavioral ecology comparative psychology or anthropology Published in association with the Animal Behavior Society

Foundations of Paleoecology, 2019 Foundations of Macroecology Felisa A. Smith, John L. Gittleman, James H. Brown, 2014-08-22 Macroecology is an approach to science that emphasizes description and explanation of patterns and processes at large spatial and temporal scales Some liken it to seeing the forest through the trees an apt ecological use of the proverbial phrase The term itself was introduced to modern literature by our authors James Brown and Brian Maurer in a seminal science paper in 1989 We then published books by both of these authors including Brown's Macroecology in 1995 which quickly traveled to the shelf of classics in ecology credited with cohering and inspiring a subfield of ecology proper While macroecology is to many a modern subfield the large scale perspective it advocates is implicit in earlier publications For example in 1898 de Liocourt studied the influence of management practices on the structure of French fir forests and characterized the distribution of tree size in three different stands His findings that in natural areas the number of trees declined exponentially with increasing diameter of the trunk allowed him to draw conclusions about the influence of management practices on tree distribution patterns Similarly other classic macroecological patterns including the species area relationship latitudinal gradient of species richness relationship between body size and metabolic rate species abundance distribution and species body size distribution were identified decades sometimes even centuries ago Consequently despite the scant twenty years that has elapsed since the term was coined macroecology has a deep and rich history Foundations of Macroecology traces and coheres that history charting an evolutionary trajectory to the rigorous

macroecological research landscape science enjoys today The forty six papers span eight decades from 1920 to 1998 and include divergent perspectives of space time and taxonomic and habitat affiliation. They are organized into two main parts Macroecology before Macroecology and Dimensions of Macroecology The latter is further subdivided into six sections reflecting the subject matter Allometry and Body Size Evolutionary Dynamics Abundance and Distributions Species Diversity and Methodological Advances For each reprinted paper a macroecologist specializing in that area has written original commentary that places the paper in a broader context and explains why it is foundational Complexity and Dynamics .2017 Biology. Magill's Survey of Science, Life Science Supplement Frank Northen Magill, Laura L. Hoopes, 1998 Archives Internationales D'histoire Des Sciences, 1992 Mammalia ,1993 **Environmental Education** for Sustainability Mauri Ahlberg, Walter Leal Filho, 1998 The book deals with the matter of environmental education applied to education for sustainability taking into account formal and non formal education contexts and bearing in mind the relationship between environmental quality and quality of life The ideas experiences and perspectives presented by the various specialists contributing to the book from various geographical regions provide an overview of the diversity of approaches used internationally in the field of environmental education and supply background information on the different problems inherent to this field as well as a bird's eye perspective on the initiatives projects and concrete action on the ground Bulletin of the Ecological Society of America Ecological Society of America, 1993 Annual Review of Ecology, Evolution, and Systematics, 2006 The Ecology Action Guide Graham C. Hickman, Susan M. Hickman, 2002 This book is a guide that encourages readers to be environmentally responsible citizens There is also a CD ROM titled The ecology place and a web site that enables users to become virtual field ecologists by performing experiments such as estimating the number of mice on an imaginary island or restoring prairie land in Iowa American Book Publishing Record, 2003

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