



Functioning

- Gross primary productivity
- Evapotranspiration rate
- Water use efficiency

Structure

- Species composition
- Tree, shrub, herb
- Aboveground/underground
- Soil layers

Functioning

- Soil respiration rate
- Greenhouse gas flux

History Of Ecosystem Concept In Ecology

Vito De Lucia



History Of Ecosystem Concept In Ecology:

A History of the Ecosystem Concept in Ecology Frank B. Golley, 1993-01-01 The ecosystem concept the idea that flora and fauna interact with the environment to form an ecological complex has long been central to the public perception of ecology and to increasing awareness of environmental degradation In this book an eminent ecologist explains the ecosystem concept tracing its evolution describing how numerous American and European researchers contributed to its evolution and discussing the explosive growth of ecosystem studies Golley surveys the development of the ecosystem concept in the late nineteenth and early twentieth centuries and discusses the coining of the term ecosystem by the English ecologist Sir Arthur George Tansley in 1935 He then reviews how the American ecologist Raymond Lindeman applied the concept to a small lake in Minnesota and showed how the biota and the environment of the lake interacted through the exchange of energy Golley describes how a seminal textbook on ecology written by Eugene P Odum helped to popularize the ecosystem concept and how numerous other scientists investigated its principles and published their results He relates how ecosystem studies dominated ecology in the 1960s and became a key element of the International Biological Program biome studies in the United States a program aimed at the betterment of mankind specifically through conservation human genetics and improvements in the use of natural resources how a study of watershed ecosystems in Hubbard Brook New Hampshire blazed new paths in ecosystem research by defining the limits of the system in a natural way and how current research uses the ecosystem concept Throughout Golley shows how the ecosystem concept has been shaped internationally by both developments in other disciplines and by personalities and politics

Spatializing the History of Ecology Raf de Bont, Jens Lachmund, 2017-06-26 This book advances a spatial perspective on the history of ecology Intrigued by broader debates in the humanities on the spatial turn the authors contribute to a more explicit and systematic development of spatial thinking in the history of ecology exploring to which extent a spatial perspective can shed new light on the history of ecological science and using ecology as a critical site to gain broader insights into the history of the environment in the nineteenth and twentieth centuries

The Evolution of American Ecology, 1890-2000 Sharon E. Kingsland, 2005 In the 1890s several initiatives in American botany converged The creation of new institutions such as the New York Botanical Garden coincided with radical reforms in taxonomic practice and the emergence of an experimental program of research on evolutionary problems Sharon Kingsland explores how these changes gave impetus to the new field of ecology that was defined at exactly this time She argues that the creation of institutions and research laboratories coupled with new intellectual directions in science were crucial to the development of ecology as a discipline in the United States The main concern of ecology the relationship between organisms and environment was central to scientific studies aimed at understanding and controlling the evolutionary process Kingsland considers the evolutionary context in which ecology arose especially neo Lamarckian ideas and the new mutation theory and explores the relationship between scientific research and broader theories about social

progress and the evolution of human civilization By midcentury American ecologists were leading the rapid development of ecosystem ecology and society in the postwar context foreshadowing the environmental critiques of the 1960s As the ecosystem concept evolved so too did debates about how human ecology should be incorporated into the biological sciences Kingsland concludes with an examination of ecology in the modern urban environment reflecting on how scientists are now being challenged to produce innovative responses to pressing problems The Evolution of American Ecology 1890 2000 offers an innovative study not only of the scientific landscape in turn of the century America but of current questions in ecological science

Reader's Guide to the History of Science Arne Hessenbruch, 2013-12-16 The Reader's Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn

A History of the Ecosystem Concept in Ecology Frank B. Golley, 1993

Ecology C. Lévêque, 2003-01-10 Eleven plants were chosen so as to cover a wide range of biological characteristics perennial annual autogamous allogamous etc in this study Three chapters on methodology complement these studies The first is devoted to the use of biological and molecular markers to analyse the diversity of collections the second addresses data analysis and the third describes a method for constituting core collectaions based on maximization of variability

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

The 'Ecosystem Approach' in International Environmental Law Vito De Lucia, 2019-03-28 The ecosystem approach broadly understood as a legal and governance strategy for integrated environmental and biodiversity management has been adopted within a wide variety of international environmental legal regimes and provides a narrative a policy approach and in some cases legally binding obligations for States to implement

what has been called a new paradigm of environmental management In this last respect the ecosystem approach is also often considered to offer an opportunity to move beyond the outdated anthropocentric framework underpinning much of international environmental law thus helping re think law in the Anthropocene Against this background this book addresses the question of whether the ecosystem approach represents a paradigm shift in international environmental law and governance or whether it is in conceptual and operative continuity with legal modernity This central question is explored through a combined genealogical and biopolitical framework which reveals how the ecosystem approach is the result of multiple contingencies and contestations and of the interplay of divergent and sometimes irreconcilable ideological projects The ecosystem approach this books shows does not have a univocal identity and must be understood as both signalling the potential for a decisive shift in the philosophical orientation of law and the operationalisation of a biopolitical framework of control that is in continuity with and even intensifies the eco destructive tendencies of legal modernity It is however in revealing this disjunction that the book opens up the possibility of moving beyond the already tired assessment of environmental law through the binary of anthropocentrism and ecocentrism

Silwood Circle, The: A History Of Ecology And The Making Of Scientific Careers In Late Twentieth-century Britain Hannah Gay, 2013-04-12 This is an original and wide ranging account of the careers of a close knit group of highly influential ecologists working in Britain from the late 1960s onwards The book can also be read as a history of some recent developments in ecology One of the group Robert May is a past president of the Royal Society and the author of what many see as the most important treatise in theoretical ecology of the later twentieth century That the group flourished was due not only to May s intellectual leadership but also to the guiding hand of T R E Southwood Southwood ended his career as Linacre Professor of Zoology at the University of Oxford where he also served a term as Vice Chancellor Earlier as a professor and director of the Silwood Park campus of Imperial College London he brought the group together Since it began to coalesce at Silwood it has been named here the Silwood Circle Southwood promoted the interests of its members with the larger aim of raising the profile of ecological and environmental science in Britain Given public anxiety over the environment and the loss of ecosystems his actions were well timed Ecology which had been on the scientific margins in the first half of the twentieth century came to be viewed as a science central to modern existence The book illustrates its importance to many areas Members of the Silwood Circle have acted as government advisors in the areas of conservation and biodiversity resource management pest control food policy genetically modified crops sustainable agriculture international development defence against biological weapons and epidemiology and infectious disease control In recounting the science they carried out and how they made their careers the book reflects also on the role of the group and the nature of scientific success

Ecology Revisited Astrid Schwarz, Kurt Jax, 2011-03-18 As concerns about humankind s relationship with the environment move inexorably up the agenda this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted

discipline The text provides readers with an overview of the theoretical institutional and historical formation of ecological knowledge The varied local conditions of early ecology are considered in detail while epistemological problems that lie on the borders of ecology such as disunity and complexity are discussed The book traces the various phases of the history of the concept of ecology itself from its 19th century origins and antecedents through the emergence of the environmental movement in the later 20th century to the future and how ecology might be located in the environmental science framework of the 21st century The study of ecological phenomena has never been confined solely to the work of researchers who consider themselves ecologists It is rather a field of knowledge in which a plurality of practices concepts and theories are developed Thus there exist numerous disciplinary subdivisions and research programmes within the field the boundaries of which remain blurred As a consequence the deliberation to adequately identify the ecological field of knowledge its epistemic and institutional setting is still going on This will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems such as climate change the protection of species diversity or the management of renewable resources

Urban Ecology John Marzluff, Eric Shulenberger, Wilfried Endlicher, Marina Alberti, Gordon Bradley, Clare Ryan, Craig ZumBrunnen, Ute Simon, 2008-01-03 Urban Ecology is a rapidly growing field of academic and practical significance Urban ecologists have published several conference proceedings and regularly contribute to the ecological architectural planning and geography literature However important papers in the field that set the foundation for the discipline and illustrate modern approaches from a variety of perspectives and regions of the world have not been collected in a single accessible book Foundations of Urban Ecology does this by reprinting important European and American publications filling gaps in the published literature with a few targeted original works and translating key works originally published in German This edited volume will provide students and professionals with a rich background in all facets of urban ecology The editors emphasize the drivers patterns processes and effects of human settlement The papers they synthesize provide readers with a broad understanding of the local and global aspects of settlement through traditional natural and social science lenses This interdisciplinary vision gives the reader a comprehensive view of the urban ecosystem by introducing drivers patterns processes and effects of human settlements and the relationships between humans and other animals plants ecosystem processes and abiotic conditions The reader learns how human institutions health and preferences influence and are influenced by the others members of their shared urban ecosystem

Fundamentals of Ecosystem Science Kathleen C. Weathers, David L. Strayer, Gene E. Likens, 2012-12-31 Fundamentals of Ecosystem Science provides a compact and comprehensive introduction to modern ecosystem science This book covers major concepts of ecosystem science biogeochemistry and energetics It addresses contrasts and compares both terrestrial and aquatic ecosystems It combines general lessons concepts frameworks and challenges in highly accessible synthesis chapters It presents firsthand

case studies written by leaders in the field offering personal insights into how adopting an ecosystem approach led to innovations new understanding management changes and policy solutions This book is ideal for advanced undergraduate and graduate students who have had a general biology course but not further training in ecosystems as well as researchers and professionals in ecology and environmental sciences Addresses contrasts and compares both terrestrial and aquatic ecosystems Combines general lessons concepts frameworks and challenges in highly accessible synthesis chapters Presents firsthand case studies written by leaders in the field offering personal insights into how adopting an ecosystem approach led to innovations new understanding management changes and policy solutions *Populations, Biocommunities, Ecosystems* George P. Stamou, 2012 Discussions on historical and philosophical issues in ecology have been rather limited This volume presents an enriched and comprehensive review on ecological issues The topics covered in this e book include the emergence of the field of life history st **New Perspectives on the History of Life Sciences and Agriculture** Denise Phillips, Sharon Kingsland, 2015-02-12 This volume explores problems in the history of science at the intersection of life sciences and agriculture from the mid eighteenth to the mid twentieth century Taking a comparative national perspective the book examines agricultural practices in a broad sense including the practices and disciplines devoted to land management forestry soil science and the improvement and management of crops and livestock The life sciences considered include genetics microbiology ecology entomology forestry and deal with US European Russian Japanese Indonesian Chinese contexts The book shows that the investigation of the border zone of life sciences and agriculture raises many interesting questions about how science develops In particular it challenges one to re examine and take seriously the intimate connection between scientific development and the practical goals of managing and improving perhaps even recreating the living world to serve human ends Without close attention to this zone it is not possible to understand the emergence of new disciplines and transformation of old disciplines to evaluate the role and impact of such major figures of science as Humboldt and Mendel or to appreciate how much of the history of modern biology has been driven by national ambitions and imperialist expansion in competition with rival nations Ecosystem Ecology Sven Erik Jørgensen, 2009-07-25 Jørgensen s Ecosystem Ecology provides a thorough and comprehensive overview of the world s aquatic and terrestrial ecosystems This derivative volume based on the best selling Encyclopedia of Ecology published 2008 is the only book currently published that provides an overview of the world s ecosystems in a concise format Provides an overview of the world s ecosystems in a concise format Covers aquatic and terrestrial ecosystems Based on the best selling Encyclopedia of Ecology Full color figures and tables support the text and aid in understanding Ecological Planning Forster Ndubisi, 2002-05-31 Should be read by all institutional and public choice economists who work toward solving problems associated with human use of the natural environment Journal of Economic Issues **The Story of a Forest** Robert Kuhn McGregor, 2018-02-13 The re established forests of the Upper Delaware exist as a living reminder of centuries of both exploitation and good intentions Emerging after

the last glaciation they were first modified by Native Americans to promote hunting and limited agriculture The forests began to disappear as Europeans clear cut farmland and fed sawmills and tanneries The advent of the railroad accelerated demand and within 30 years industry had consumed virtually every mature tree in the valley leaving barren hillsides subject to erosion and flooding Even as unchecked cutting continued conservation efforts began to save what little remained A century and a half later a forest for the 21st century has emerged an ecological patchwork protected by a web of governmental agencies yet still subject to danger from humans

Ecology - Volume I Antonio Bodini ,Stefan Klotz,2009-10-20 Ecology is a component of Encyclopedia of Environmental and Ecological Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Ecology is the study of the interrelationships between living organisms and their environment The term ecology was introduced by Ernst Haeckel at the end of the nineteenth century Since that time spectacular advances have been made Much has been learned about the relationship between organisms and environmental factors and about the processes that regulate the abundance and distribution of species The Theme on Ecology with contributions from distinguished experts in the field discusses the Science of Ecology for a Sustainable World The two volumes are aimed at the following five major target audiences

University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Philosophy of Ecology ,2011-05-16 The most pressing problems facing humanity today over population energy shortages climate change soil erosion species extinctions the risk of epidemic disease the threat of warfare that could destroy all the hard won gains of civilization and even the recent fibrillations of the stock market are all ecological or have a large ecological component in this volume philosophers turn their attention to understanding the science of ecology and its huge implications for the human project To get the application of ecology to policy or other practical concerns right humanity needs a clear and disinterested philosophical understanding of ecology which can help identify the practical lessons of science Conversely the urgent practical demands humanity faces today cannot help but direct scientific and philosophical investigation toward the basis of those ecological challenges that threaten human survival This book will help to fuel the timely renaissance of interest in philosophy of ecology that is now occurring in the philosophical profession Provides a bridge between philosophy and current scientific findings Covers theory and applications Encourages multi disciplinary dialogue

Ecological Investigations Adam Konopka,2019-08-21 These investigations identify and clarify some basic assumptions and methodological principles involved in ecological explanations of plant associations How are plants geographically distributed into characteristic groups What are the basic conditions that organize groups of interspecific plant populations that are characteristic of particular kinds of habitats Answers to these questions concerning the geographical distribution of plants in late 19th century European plant geography and early 20th century American plant ecology can be distinguished according to differing logical assumptions concerning the habitats of plant associations Through an analysis of several

significant case studies in the early history of plant ecology Konopka distinguishes a logic of habitats that conceives of plant associations in an analogy to individual organisms with a logic that conceives of plant associations in a reciprocal relation to habitat physiography He argues that a phenomenological conception of the logical attributes of habitats can philosophically complement the physiographic tradition in early plant ecology and provide an attractive alternative to standard reductionism and holism debates that persist today This wide ranging and original analysis will be valuable for readers interested in the history and philosophy of ecology

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Table of Contents History Of Ecosystem Concept In Ecology

1. Understanding the eBook History Of Ecosystem Concept In Ecology
 - The Rise of Digital Reading History Of Ecosystem Concept In Ecology
 - Advantages of eBooks Over Traditional Books
2. Identifying History Of Ecosystem Concept In Ecology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an History Of Ecosystem Concept In Ecology
 - User-Friendly Interface
4. Exploring eBook Recommendations from History Of Ecosystem Concept In Ecology
 - Personalized Recommendations
 - History Of Ecosystem Concept In Ecology User Reviews and Ratings
 - History Of Ecosystem Concept In Ecology and Bestseller Lists
5. Accessing History Of Ecosystem Concept In Ecology Free and Paid eBooks
 - History Of Ecosystem Concept In Ecology Public Domain eBooks
 - History Of Ecosystem Concept In Ecology eBook Subscription Services
 - History Of Ecosystem Concept In Ecology Budget-Friendly Options

6. Navigating History Of Ecosystem Concept In Ecology eBook Formats
 - ePub, PDF, MOBI, and More
 - History Of Ecosystem Concept In Ecology Compatibility with Devices
 - History Of Ecosystem Concept In Ecology Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of History Of Ecosystem Concept In Ecology
 - Highlighting and Note-Taking History Of Ecosystem Concept In Ecology
 - Interactive Elements History Of Ecosystem Concept In Ecology
8. Staying Engaged with History Of Ecosystem Concept In Ecology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers History Of Ecosystem Concept In Ecology
9. Balancing eBooks and Physical Books History Of Ecosystem Concept In Ecology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection History Of Ecosystem Concept In Ecology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine History Of Ecosystem Concept In Ecology
 - Setting Reading Goals History Of Ecosystem Concept In Ecology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of History Of Ecosystem Concept In Ecology
 - Fact-Checking eBook Content of History Of Ecosystem Concept In Ecology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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