

Gene E. Likens  
Editor

# Long-Term Studies in Ecology

*Approaches and  
Alternatives*



Springer-Verlag

# Long Term Studies In Ecology Approaches And Alternatives

**Fred B. Samson, Fritz L. Knopf**



## **Long Term Studies In Ecology Approaches And Alternatives:**

Long-Term Studies in Ecology Gene E. Likens, 2012-12-06 The Cary Conferences as we have envisaged them are different from most scientific meetings in that they provide a forum for major issues in ecology from a more philosophical point of view. It appears to many of us that ecologists have limited opportunities to come together in small groups to address in a more philosophical way some of the major questions and issues that matter very much to the future of humankind and to us as ecologists. Moreover, we hope that the setting of the Mary Flagler Cary Arboretum promotes strong interaction and discussion between Conference participants with a minimum of distraction. We are proud to make our facilities available for such meetings and we hope that over the years these Conferences might provide direction and leadership for the whole field of ecology. We have the broad goal of attempting to advance the field of ecology by bringing together leading ecologists and other scientists to address major issues. The first Cary Conference in 1985 considered the status and future of ecosystem science. This first Conference was rather loosely structured but was successful in stimulating discussion, ideas, and enthusiasm. Likens et al. 1987. The goals for this second Cary Conference in 1987 were: 1. to identify the roles of long-term studies in ecology; 2. to identify the options for study of long-term ecological phenomena; 3. **Long-term Studies in**

**Ecology** Gene E. Likens, 1989. Papers from the Second Cary Conference held in Millbrook, New York, on May 13, 1987.

**Ecological Time Series** Thomas M. Powell, John H. Steele, 2012-12-06 This book results from a summer school held at Cornell University in 1992. The participants were graduate students and postdoctoral researchers selected from a broad range of interests and backgrounds in ecological studies. The summer school was the second in a continuing series whose underlying aim and the aim of this volume is to bring together the different methods and concepts underpinning terrestrial, freshwater, and marine ecology. The first volume in the series focused on patch dynamics in these three ecological sectors. Here we have endeavored to complement that volume by extending its comparative approach to the consideration of ecological time series. The types of data and the methods of collection are necessarily very different in these contrasting environments, yet the underlying concept and the technical problems of analysis have much in common. It proved to be of great interest and value to the summer school participants to see the differences and then work through to an appreciation of the generalizable concepts. We believe that such an approach must have value as well for a much larger audience, and we have structured this volume to provide a comparable reading experience. *Long-term Ecological Research* International Council of Scientific Unions. Scientific Committee on Problems of the Environment, 1991. An examination of long-term ecological studies. The contributors describe existing international long-term research efforts, evaluate facilitating mechanisms, propose important research questions that require international cooperation, and discuss technologies designed to assist in this. *Ecological Data* William K. Michener, James W. Brunt, 2009-04-01 Ecologists are increasingly tackling difficult issues like global change, loss of biodiversity, and sustainability of ecosystem services. These and related topics are

enormously challenging requiring unprecedented multidisciplinary collaboration and rapid synthesis of large amounts of diverse data into information and ultimately knowledge New sensors computers data collection and storage devices and analytical and statistical methods provide a powerful tool kit to support analyses graphics and visualizations that were unthinkable even a few years ago New and increased emphasis on accessibility management processing and sharing of high quality well maintained and understandable data represents a significant change in how scientists view and treat data These issues are complex and despite their importance are typically not addressed in database ecological and statistical textbooks This book addresses these issues providing a much needed resource for those involved in designing and implementing ecological research as well as students who are entering the environmental sciences Chapters focus on the design of ecological studies data management principles scientific databases data quality assurance data documentation archiving ecological data and information and processing data into information and knowledge The book stops short of a detailed treatment of data analysis but does provide pointers to the relevant literature in graphics statistics and knowledge discovery The central thesis of the book is that high quality data management systems are critical for addressing future environmental challenges This requires a new approach to how we conduct ecological research that views data as a resource and promotes stewardship recycling and sharing of data Ecological Data will be particularly useful to those ecologists and information specialists that actively design manage and analyze environmental databases However it will also benefit a wider audience of scientists and students in the ecological and environmental sciences

*Glacier Evolution in a Changing World* Danilo Godone, 2017-10-04 Glaciers have always played an important role in human history and currently they are carefully observed as climate change sentinels Glacier melt rate is increasing and its mass balance is continuously negative This issue deserves accurate and in depth studies in order to adequately monitor its state This circumstance in fact endangers the water supply affecting human settlements but also creating new environments allowing the colonization by pioneer communities and the formation of new landscapes This book is subdivided into two main sections in order to deal with the two topics of worldwide research on glaciers and ecology in glacial environments In the first one Glaciers in the World several reviews and studies are collected It is an overview of glaciers their state and research carried out in different continents and contexts The second section Glacial Ecosystems focuses on the other hand on glacier environments and ecological researches

**Status and Trends of the Nation's Biological Resources**, 1998

**Status and Trends of the Nations's Biological Resources** Catherine E. Puckett Haecker, Paul A. Opler, Peter D. Doran, 1998 Assesses the health of the United States plants animals and ecosystems

**A Guidebook for Integrated Ecological Assessments** Mark E. Jensen, Patrick S. Bourgeron, 2012-09-07 Ecosystem management requires a planning and decision making process that places land use in its appropriate ecological context Because ecological assessments must be conducted at various spatial scales and across jurisdictional boundaries approaches to assessment must be compatible and consistent with each other A Guidebook for Integrated Ecological

Assessment analyzes methods and provides standards and protocols for assessment and the integration of data

Ecosystem Management Fred B. Samson, Fritz L. Knopf, 2013-12-01 Ecosystem management has emerged in the past several years as the new paradigm for managing public and private land. It combines the principles of ecosystem level ecology with the policy requirements of resource and public land management. This collection of selected readings will serve as an introduction to the concepts of biological diversity, ecological process, biotic integrity, and ecological sustainability that underlie ecosystem management.

Biodiversity and Environmental Change Emma Burns, Andrew Lowe, Nicole Thurgate, David Lindenmayer, 2014-02-06 This data rich book demonstrates the value of existing national long term ecological research in Australia for monitoring environmental change and biodiversity. Long term ecological data are critical for informing trends in biodiversity and environmental change. The Terrestrial Ecosystem Research Network (TERN) is a major initiative of the Australian Government and one of its key areas of investment is to provide funding for a network of long term ecological research plots around Australia. LTERN researchers and other authors in this book have maintained monitoring sites often for one or more decades in an array of different ecosystems across the Australian continent ranging from tropical rainforests, wet eucalypt forests and alpine regions through to rangelands and deserts. This book highlights some of the temporal changes in the environment that have occurred in the various systems in which dedicated field based ecologists have worked. Many important trends and changes are documented and they often provide new insights that were previously poorly understood or unknown. These data are precisely the kinds of data so desperately needed to better quantify the temporal trajectories in the environment in Australia. By presenting trend patterns and often also the associated data, the authors aim to catalyse governments and other organisations to better recognise the importance of long term data collection and monitoring as a fundamental part of ecologically effective and cost effective management of the environment and biodiversity.

Sustainability David Mollica, 2017-03-02 Sustainability is one of the key concepts underlying our thinking about corporate responsibilities particularly with respect to the environment and inter generational justice but also in relation to corporate governance and the long term economic viability. The advantages of the discourse of Sustainability are that it brings together contemporary economic and moral imperatives in the context of scientific knowledge. Its disadvantages relate to its open ended content, its systematic ambiguity and the internal tensions between economic growth, human survival and global justice. The essays in this volume reflect these strengths and weaknesses from a variety of viewpoints: economic, scientific, social and philosophical. They illustrate and illuminate the varied and contested content and utility of this currently popular concept and point to its multiple implications for the development of corporate responsibilities.

**Ecological Understanding** Steward T.A. Pickett, Jurek Kolasa, Clive G. Jones, 2013-10-22 Ecology is an historical science in which theories can be as difficult to test as they are to devise. This volume intended for ecologists and evolutionary biologists reviews ecological theories and how they are generated, evaluated and categorized. Synthesizing a vast and sometimes

labyrinthine literature this book is a useful entry into the scientific philosophy of ecology and natural history The need for integration of the contributions to theory made by different disciplines is a central theme of this book The authors demonstrate that only through such integration will advances in ecological theory be possible Ecologists evolutionary biologists and other serious students of natural history will want this book

**Climate Change** Juan A. Blanco, Houshang Kheradmand, 2011-09-12 This book offers an interdisciplinary view of the biophysical issues related to climate change Climate change is a phenomenon by which the long term averages of weather events i.e temperature precipitation wind speed etc that define the climate of a region are not constant but change over time There have been a series of past periods of climatic change registered in historical or paleoecological records In the first section of this book a series of state of the art research projects explore the biophysical causes for climate change and the techniques currently being used and developed for its detection in several regions of the world The second section of the book explores the effects that have been reported already on the flora and fauna in different ecosystems around the globe Among them the ecosystems and landscapes in arctic and alpine regions are expected to be among the most affected by the change in climate as they will suffer the more intense changes The final section of this book explores in detail those issues

**Bibliographies and Literature of Agriculture**, 1990

**Insect Conservation Biology** Alan J. A. Stewart, T. R. New, O. T. Lewis, 2007-01-01 These proceedings contain papers on insect conservation biology that are classified under 3 themes 1 the current status of insect conservation and major avenues for progress and hindrances 6 papers 2 insects as model organisms in conservation biology 6 papers and 3 future directions in insect conservation biology 6 papers

**Coral Reef Ecosystems Research and Protection** United States. Congress. House. Committee on Science, Space, and Technology. Subcommittee on Environment, 1992

**Routledge Handbook of Rewilding** Sally Hawkins, Ian Convery, Steve Carver, Rene Beyers, 2022-11-30 This handbook provides a comprehensive overview of the history theory and current practices of rewilding Rewilding offers a transformational paradigm shift in conservation thinking and as such is increasingly of interest to academics policymakers and practitioners However as a rapidly emerging area of conservation the term has often been defined and used in a variety of different ways both temporally and spatially There is therefore the need for a comprehensive assessment of this field and the Routledge Handbook of Rewilding fills this lacuna The handbook is organised into four sections to reflect key areas of rewilding theory practice and debate the evolution of rewilding theoretical and practical underpinnings applications and impacts and the ethics and philosophy of rewilding Drawing on a range of international case studies the handbook addresses many of the key issues including land acquisition and longer term planning transitioning from restoration human led nature enabled to rewilding nature led human enabled and the role of political and social transformational change Led by an editorial team who have extensive experience researching and practising rewilding this handbook is essential reading for students academics and practitioners interested in rewilding ecological restoration natural

resource management and conservation      *Social and Environmental Impacts in the North: Methods in Evaluation of Socio-Economic and Environmental Consequences of Mining and Energy Production in the Arctic and Sub-Arctic* Rasmus Ole Rasmussen, Natalia E. Koroleva, 2012-12-06 Future development in the Arctic and Subarctic region requires careful attention to the possible consequences of the development activities themselves in relation to their environmental socioeconomic and cultural impacts A more thorough understanding of the impact of future activities however demands the dissemination and confrontation of results from different regions and different scientific traditions This requires scientific cooperation not only across disciplines but across border Primarily it requires both consensus and innovations in regard to methods This book confronts such differences in approaches and methods in relation to the analysis of socioeconomic and environmental consequences of large scale mineral and energy development activities in the Arctic and Subarctic establishing the common ground upon which future research activities can be based      *Large-scale Silviculture Experiments of Western Oregon and Washington* Nathan Jeremy Poage, 2007 We review 12 large scale silviculture experiments LSSEs in western Washington and Oregon with which the Pacific Northwest Research Station of the USDA Forest Service is substantially involved We compiled and arrayed information about the LSSEs as a series of matrices in a relational database which is included on the compact disc published with this report and available online at <http://www.fs.fed.us/pnw/research/lsse> The LSSEs are both spatially and temporally large scale with experimental treatment units between 5 and 100 acres and proposed study durations of 20 to 200 years A defining characteristic of the LSSEs is that a broad range of response variables are measured to characterize the response of forest ecosystems to experimental treatments We discuss the general value and limitations of the LSSEs and highlight some possible roles that can be played by the LSSEs in addressing management issues emerging at the beginning of the 21st century

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