


Felix Müller · Cornelia Baessler  
Hendrik Schubert · Stefan Klotz *Editors*



# Long-Term Ecological Research

Between Theory and Application

 Springer

# Long Term Ecological Research Between Theory And Application

**Valentí Rull**



## **Long Term Ecological Research Between Theory And Application:**

Long-Term Ecological Research Felix Müller, Cornelia Baessler, Hendrik Schubert, Stefan Klotz, 2010-06-21 Ecosystems change on a multitude of spatial and temporal scales While analyses of ecosystem dynamics in short timespans have received much attention the impacts of changes in the long term have to a great extent been neglected provoking a lack of information and methodological know how in this area This book fills this gap by focusing on studies dealing with the investigation of complex long term ecological processes with regard to global change the development of early warning systems and the acquisition of a scientific basis for strategic conservation management and the sustainable use of ecosystems Within this book theoretical ecological questions of long term processes as well as an international dimension of long term monitoring observations and research are brought together The outcome is an overview on different aspects of long term ecological research Aquatic as well as terrestrial ecosystems are represented *na* , **Long-Term Ecological Research** Michael R. Willig, Lawrence R. Walker, 2016-04-12 The Long Term Ecological Research LTER Program is in a sense an experiment to transform the nature of science and represents one of the most effective mechanisms for catalyzing comprehensive site based research that is collaborative multidisciplinary and long term in nature The scientific contributions of the Program are prodigious but the broader impacts of participation have not been examined in a formal way This book captures the consequences of participation in the Program on the perspectives attitudes and practices of environmental scientists The edited volume comprises three sections The first section includes two chapters that provide an overview of the history goals mission and inner workings of the LTER network of sites The second section comprises three dozen retrospective essays by scientists data managers or educators who represent a broad spectrum of LTER sites from deserts to tropical forests and from arctic to marine ecosystems Each essay addresses the same series of probing questions to uncover the extent to which participation has affected the ways that scientists conduct research educate students or provide outreach to the public The final section encompasses 5 chapters whose authors are biophysical scientists historians behavioral scientists or social scientists This section analyzes integrates or synthesizes the content of the previous chapters from multiple perspectives and uncovers emergent themes and future directions **Long Term Socio-Ecological Research** Simron Jit Singh, Helmut Haberl, Marian Chertow, Michael Mirtl, Martin Schmid, 2012-11-13 The authors in this volume make a case for LTSER s potential in providing insights knowledge and experience necessary for a sustainability transition This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state which has evolved to recognize the value of formulating solutions to the host of ecological threats we face Through many case studies this book gives the reader a greater sense of where we are and what still needs to be done to engage in and make meaning from long term place based and cross disciplinary engagements with socio ecological systems Terrestrial Ecosystem Research Infrastructures Abad Chabbi, Henry W. Loescher, 2017-03-03 Terrestrial

Ecosystem Research Infrastructures Challenges and Opportunities reveals how environmental research infrastructures RIs provide new valuable insights on ecological processes that cannot be realized by more traditional short term funding cycles and are integral to understand our changing world This book bonds the latest state of the science knowledge on environmental RIs the challenges in creating them their place in addressing scientific frontiers and the new perspectives they bear Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage as the authors explore and explain many topics such as the rationale and challenges in global change field and modeling platforms new tools challenges in data management distilling information into knowledge and new developments in large scale RIs This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management and logistics operations

**The Biodiversity Observation Network in the Asia-Pacific Region** Shin-ichi Nakano,Tetsukazu Yahara,Tohru Nakashizuka,2012-07-26 Biological diversity is important for ecosystem function and services which in turn is essential for human well being Under the Convention on Biological Diversity international efforts have been made to achieve a significant reduction in the current rate of biodiversity loss The loss continues however The Asia Pacific region includes both developing countries with high biodiversity and developed countries with sophisticated data collection and analyses but only limited information about the status quo of biodiversity in this region has been available Many Asia Pacific countries have rapidly grown their economies and social infrastructures causing a loss of biodiversity and requiring an urgent mandate to achieve a balance between development and conservation in the region In December 2009 scientists successfully organized the Asia Pacific Biodiversity Observation Network in the region to establish a network for research and monitoring of ecosystems and biodiversity and to build a cooperative framework The present volume is the first collection of information on biodiversity in the Asia Pacific and represents a quantum step forward in science that optimizes the synergy between development and biodiversity conservation

*Earth System Monitoring* John Orcutt,2012-12-12 Modern Earth System Monitoring represents a fundamental change in the way scientists study the Earth System In Oceanography for the past two centuries ships have provided the platforms for observing Expeditions on the continents and Earth s poles are land based analogues Fundamental understanding of current systems climate natural hazards and ecosystems has been greatly advanced While these approaches have been remarkably successful the need to establish measurements over time can only be made using Earth observations and observatories with exacting standards and continuous data The 19 peer reviewed contributions in this volume provide early insights into this emerging view of Earth in both space and time in which change is a critical component of our growing understanding

*Research Anthology on Environmental and Societal Impacts of Climate Change* Management Association, Information Resources,2021-10-29 Climate change is an issue that has been generating a significant amount of discussion research and debate in recent years Climate change continues to evolve at a rapid rate and continues to have a wide array of effects on everything from temperature to

plant life Beyond the negative environmental impacts climate change is also proving to be a detriment to society with increasingly violent natural disasters and human health effects It is essential to stay up to date on the latest in emerging research within this field as it continues to develop The Research Anthology on Environmental and Societal Impacts of Climate Change discusses the varied effects of climate change throughout all areas of life and provides a comprehensive dive into the latest research on key elements of society that are affected by the rapidly increasing climate change Covering a range of topics including reproduction plants and animals and energy demand it is ideal for environmentalists policymakers environmental engineers scientists disaster and crisis management personnel professionals government officials practitioners upper level students and academics interested in emerging research on the numerous impacts of climate change Pandas and People Jianguo Liu, Vanessa Hull, Wu Yang, Andrés Viña, Xiaodong Chen, Zhiyun Ouyang, Hemin Zhang, 2016 Part I Empirical and theoretical foundations Part II Model coupled human and natural system Part III Across local to global coupled human and natural systems Part IV Perspectives **Research in Biodiversity** Igor Pavlinov, 2011-10-12 The book covers several topics of biodiversity researches and uses containing 17 chapters grouped into 5 sections It begins with an interesting chapter considering the ways in which the very biodiversity could be thought about Noteworthy is the chapter expounding pretty original creativity theory of ecosystem There are several chapters concerning models describing relation between ecological niches and diversity maintenance the factors underlying avian species imperilment and diversity turnover rate of a local beetle group Of special importance is the chapter outlining a theoretical model for morphological disparity in its most widened treatment Several chapters consider regional aspects of biodiversity in Europe Asia Central and South America among them an approach for monitoring conservation of the regional tropical phytodiversity in India is of special importance Of interest is also a chapter considering the history of the very idea of biodiversity emergence in ecological researches

**Social Ecology** Helmut Haberl, Marina Fischer-Kowalski, Fridolin Krausmann, Verena Winiwarter, 2016-07-01 This book presents the current state of the art in Social Ecology as practiced by the Vienna School of Social Ecology globally one of the main research groups in this field As a significant contribution to the growing literature on interdisciplinary sustainability studies the book introduces the purpose and nature of Social Ecology and then places the Vienna School within the broader context of socioecological and other interdisciplinary environmental approaches The conceptual and methodological foundations of Social Ecology are discussed in detail allowing the reader to obtain a broad overview of current socioecological thinking Issues covered include socio metabolic transitions socioecological approaches to land use the relation between actor centered and system approaches a socioecological theory of labor and the importance of legacies as conceived in Environmental History and in Long Term Socio Ecological Research To underpin this overview empirically the strengths of socioecological research are elucidated in cases of cutting edge research introducing a variety of themes the Vienna School has been tackling empirically over the past years Given how the field is presented reflecting research carried

out on different scales reaching from local to global as well as from past to present and future and due to the way the book is structured it is suitable for classroom use as a primer and also as an overview of how Social Ecology evolved right up to its current research frontiers

*Climate Change and Its Impact on Ecosystem Services and Biodiversity in Arid and Semi-Arid Zones* Karmaoui, Ahmed, 2019-02-22 Ecosystems provide services that are crucial and beneficial to the human population The management and conservation of these services can assure the wellbeing of the local population Climate Change and Its Impact on Ecosystem Services and Biodiversity in Arid and Semi Arid Zones is an essential reference source that studies the effects of climate change on biodiversity and ecosystem services in dry regions and examines various strategic local national and international policy developments to help overcome these impacts Featuring research on topics such as poverty reduction climate change and adaption policies this book is ideally designed for environmentalists policymakers government officials academicians researchers and technology developers who want to improve their understanding of climate change impact vulnerability and sustainability and the strategic role of adaptation and mitigation

**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 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

*Quaternary Ecology, Evolution, and Biogeography* Valentí Rull, 2020-03-05 Quaternary Ecology Evolution and Biogeography offers an introduction to the study of the ecological and evolutionary processes that have shaped our present biosphere under the influence of glacial interglacial cycles Written by an ecologist with paleoecological expertise this book reviews the climatic changes that have occurred during the last 2.6 million years along with the responses of organisms and ecosystems It 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 This book offers the latest information on how studying the past can contribute to our understanding of present climate issues for a better future and is an ideal resource for researchers and students in the natural sciences Includes the latest developments in genomics and their relevance within Quaternary evolution Offers a holistic view of the origin of biodiversity patterns and community assembly Discusses the role of climate on human evolution and the ecological consequences for natural systems

*Climate Variability and Ecosystem Response at Long-Term Ecological Research Sites*  
David Greenland, Douglas G. Goodin, Raymond C. Smith, 2003-10-09 This volume in the Long Term Ecological Research Network Series would present the work that has been done and the understanding and database that have been developed by work on climate change done at all the LTER sites Global climate change is a central issue facing the world which is being worked on by a very large number of scientists across a wide range of fields The LTER sites hold some of the best available data measuring long term impacts and changes in the environment and the research done at these sites has not previously been made widely available to the broader climate change research community This book should appeal reasonably widely outside the ecological community and because it pulls together information from all 20 research sites it should capture the interest of virtually the entire LTER research community

**Treetops at Risk** Margaret Lowman, Soubadra Devy, T. Ganesh, 2013-06-22 Forest canopies not only support high terrestrial biodiversity but also represent a critical interface between the atmosphere and the earth They provide goods and services to support diverse human communities and offer opportunities to explore sustainable use of these resources for many generations of local livelihoods Forest canopies are important carbon sequestration units and in this sense serve as climate control for the planet Canopies are important energy production centers for the planet and serve as the basis for many food chains The canopy can also act as a hook for education outreach and conservation inspiring ecotourism through recreation and other sustainable uses such as treetop walks zip lines and birding Despite these critical services provided by forest canopies almost no dedicated research in the treetops was initiated until as recently as the late 1970s when single rope techniques were developed by mountaineering professionals and adapted for use in the canopy Subsequently an array of canopy access tools was designed in the 1980s and early 1990s that have opened up this eighth continent for global exploration and discovery This volume uses the major findings of the 5th international canopy conference as a platform for organization but it does not mimic the sessions and presentations of the conference itself Instead it builds on the important themes that emerged from the conference and solicits articles that represent future priorities and advancements for canopy science in the next decade Despite the global efforts of hundreds of forest scientists over the past 3 decades forests are degrading at an accelerated rate and biodiversity is increasingly threatened by human activities Given these trends despite the very best efforts of the world's best scientists other approaches must be taken This volume summarizes the issue of treetops at risk and assembles a global authorship to

examine past accomplishments and future initiatives critical in forest conservation      *The Global Casino* Nick Middleton, 2013-07-18 The Global Casino is an introduction to environmental issues which deals both with the workings of the physical environment and the political economic and social frameworks in which the issues occur Using examples from all over the world the book highlights the underlying causes behind environmental problems the human actions which have made them issues and the hopes for solutions It is a book about the human impact on the environment and the ways in which the natural environment impacts human society The fifth edition has been fully revised and updated throughout with new case studies figures and online resources such as downloadable figures and tables from the text and multiple choice questions for students accessible at [www.routledge.com/cw/middleton](http://www.routledge.com/cw/middleton) New topics covered in extended boxed case studies include payment for environmental services ocean acidification biofuels in Brazil waste reduction through industrial symbiosis and the long term impact of natural disasters on vulnerable groups Other approaches and concepts covered for the first time in this new edition include traditional ecological knowledge environmental justice the resource curse and urban biodiversity Eighteen chapters on key issues follow three initial chapters which outline the background contexts of the physical and human environments and the concept of sustainable development Each chapter provides historical context for key issues outlines why they have arisen and highlights areas of controversy and uncertainty to appraise how issues can be resolved both technically and in political and economic frameworks Each chapter also contains an updated critical guide to further reading and websites as well as discussion points and essay questions The text can be read in its entirety or individual chapters adopted as standalone reading The Global Casino is an essential resource for students of the environment geography earth sciences and development studies It provides comprehensive and inspirational coverage of all the major global environmental issues of the day in a style that is clear and critical      **Earth Stewardship** Ricardo Rozzi, F. Stuart Chapin III, J. Baird Callicott, S.T.A. Pickett, Mary E. Power, Juan J. Armesto, Roy H. May Jr., 2015-03-26 This book advances Earth Stewardship toward a planetary scale presenting a range of ecological worldviews practices and institutions in different parts of the world and to use them as the basis for considering what we could learn from one another and what we could do together Today inter hemispheric intercultural and transdisciplinary collaborations for Earth Stewardship are an imperative Chapters document pathways that are being forged by socio ecological research networks religious alliances policy actions environmental citizenship and participation and new forms of conservation based on both traditional and contemporary ecological knowledge and values The Earth Stewardship Initiative of the Ecological Society of America fosters practices to provide a stable basis for civilization in the future Biocultural ethic emphasizes that we are co inhabitants in the natural world no matter how complex our inventions may become Peter Raven      *The Challenges of Long Term Ecological Research: A Historical Analysis* Robert B. Waide, Sharon E. Kingsland, 2021-04-07 This volume explores the challenges of sustaining long term ecological research through a historical analysis of the Long Term Ecological Research Program created



by the U S National Science Foundation in 1980 The book examines reasons for the creation of the Program an overview of its 40 year history and in depth historical analysis of selected sites Themes explored include the broader impact of this program on society including its relevance to environmental policy and understanding global climate change the challenge of extending ecosystem ecology into urban environments and links to creative arts and humanities projects A major theme is the evolution of a new type of network science involving comparative studies innovation in information management creation of socio ecological frameworks development of governance structures and formation of an International Long Term Ecological Research Network with worldwide reach The book s themes will interest historians philosophers and social scientists interested in ecological and environmental sciences as well as researchers across many disciplines who are involved in long term ecological research

Local Governance in Transition Mary Louise McAllister, 2024-08-01 The early 2020s unleashed a perfect storm on governments worldwide Logistical challenges never before anticipated left some communities flailing while others thrived Epidemics natural disasters and economic collapses inspired innovation and creativity in many resourceful civic teams In Local Governance in Transition Mary Louise McAllister argues that communities wanting to thrive tomorrow must reimagine local governance today She begins with an overview of how government evolved in Canada then examines how interdisciplinary initiatives and policies can nudge cities toward a more sustainable future From coast to coast to coast environmental change brings existential challenges for Canadian communities Global awareness and collaboration are key in finding creative solutions for local governance and sustainability Local Governance in Transition examines systems thinking environmental studies and the mechanics of government Through the adoption of collaborative urban planning and policymaking and adaptive learning systems those working in local governance can foster healthier more resilient communities This text is for students leaders civil servants and anyone working toward sustainable cities

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