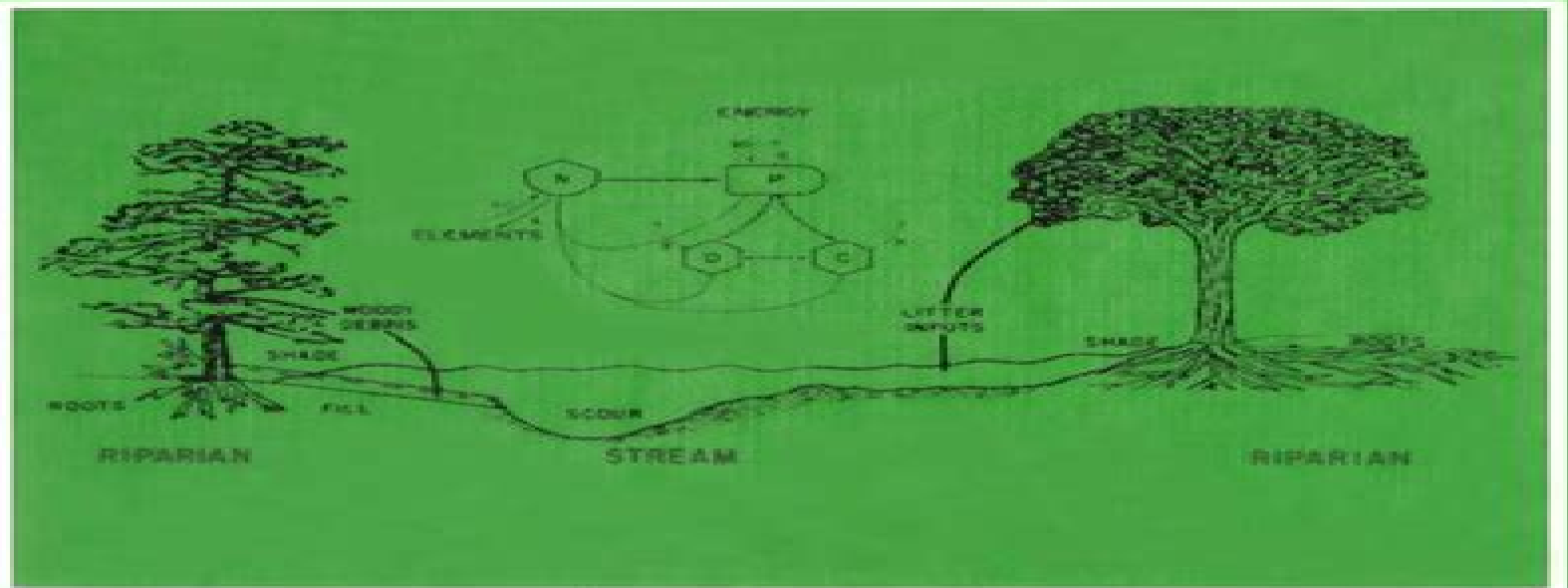


Ecological Studies 67

Lawrence R. Pomeroy

James J. Alberts **Editors**

Concepts of Ecosystem Ecology



Springer-Verlag

Concepts Of Ecosystem Ecology A Comparative View
Volume 67 In Ecological Studies Series

Ulrich Lüttge



Concepts Of Ecosystem Ecology A Comparative View Volume 67 In Ecological Studies Series:

Concepts of Ecosystem Ecology Lawrence R. Pomeroy, James J. Alberts, 2012-12-06 In this volume 19 leading experts offer a timely and coherent overview of the fundamental principles of ecosystem science They examine the flux of energy and biologically essential elements and their associated food webs in major terrestrial and aquatic ecosystems such as forests grasslands cultivated land streams coral reefs and ocean basins In each case interactions between different ecosystems predictive models and the application of ecosystem research to the management of natural resources are given special emphasis A number of theoretical chapters provide a synthesis through critical discussion of current concepts of ecosystem energetics and dynamics

The Mosaic-Cycle Concept of Ecosystems Hermann Remmert, 2012-12-06 The first international congress for ecology took place in 1974 in The Hague its central theme being Unifying Concepts in Ecology In the forefront of discussion at that time were questions of constancy stability and resilience Such questions have gone slightly out of fashion and the exceptionally precise and well thought out concepts of that era are seldom applied nowadays The present book introduces another unifying concept the concept of the ecological cycle or more precisely the mosaic cycle concept of ecology The following chapters have their origin in lectures which were held and discussed at a symposium of the Werner Reimers Stiftung in Bad Homburg The purpose of the symposium was the preparation of this book Our warmest thanks go to the Reimers Stiftung for their assistance and hospitality We should also like to express our gratitude to all participants to those who contributed to the discussion and above all to those colleagues whose lectures provided from a variety of aspects a critical approach to the mosaic cycle concept Marburg Winter 1990 91 HERMANN REMMERT Contents H REMMERT The Mosaic Cycle Concept of Ecosystems An Overview

Ecology of Biological Invasions of North America and Hawaii Harold A. Mooney, James A. Drake, 2012-12-06 The diversity of the earth's climates superimposed upon a complex configuration of physical features has provided the conditions for the evolution of a remarkable array of living things which are linked together into complex ecosystems The kinds of organisms comprising the ecosystems of the world and the nature of their interactions have constantly changed through time due to coevolutionary interactions along with the effects of a continually changing physical environment In recent evolutionary time there has been a dramatic and ever accelerating rate of change in the configuration of these ecosystems because of the increasing influence of human beings These changes range from subtle modifications caused by anthropogenically induced alterations in atmospheric properties to the total destruction of ecosystems Many of these modifications have provided the fuel food and fiber which have allowed the expansion of human populations Unfortunately there have been many unanticipated changes which accompanied these modifications which have had effects detrimental to human welfare including substantial changes in water and air quality For example the use of high sulfur coal to produce energy in parts of North America is altering the properties of freshwater lakes and forests because of acidification

Stable Isotopes in Ecological Research P.W. Rundel, J.R. Ehleringer, K.A. Nagy, 2012-12-06 The analysis of

stable isotope ratios represents one of the most exciting new technical advances in environmental sciences In this book leading experts offer the first survey of applications of stable isotope analysis to ecological research Central topics are plant physiology studies food webs and animal metabolism biogeochemical fluxes Extensive coverage is given to natural isotopes of carbon hydrogen oxygen nitrogen sulfur and strontium in both terrestrial and marine ecosystems Ecologists of diverse research interests as well as agronomists anthropologists and geochemists will value this overview for its wealth of information on theoretical background experimental approaches and technical design of studies utilizing stable isotope ratios

Remote Sensing of Biosphere Functioning Richard J. Hobbs, Harold A. Mooney, 2012-12-06 Harold A Mooney and Richard J Hobbs At present there is enormous concern about the changes that are occurring on the surface of the earth and in the earth's atmosphere primarily as a result of human activities These changes particularly in the atmosphere have the potential for altering the earth's habitability International programs unprecedented in scope including the International Geosphere Biosphere Program have been initiated to describe and understand these changes The global change program will call for coordinated measurements on a global scale of those interactive physical and biological processes that regulate the earth system The program will rely heavily on the emerging technology of remote sensing from airborne vehicles particularly satellites Satellites offer the potential of continuously viewing large segments of the earth's surface thus documenting the changes that are occurring The task however is not only to document global change which will be an enormous job but also to understand the significance of these changes to the biosphere Effects on the biosphere may cover all spatial scales from global to local The possibility of measuring biosphere function remotely and continuously from satellite imagery must be explored quickly and thoroughly in order to meet the challenge of understanding the consequences of global change Initial guidelines and approaches are currently being formulated Dyer and Crossley 1986 JOI 1984 NAS 1986 Rasool 1987 There are many conceptual and technical issues that must be resolved H A Mooney and R J

The Palgrave Encyclopedia of Global Security Studies, 2023-02-15 This encyclopedia provides an authoritative guide intended for students of all levels of studies offering multidisciplinary insight and analysis of over 500 headwords covering the main concepts of Security and Non traditional Security and their relation to other scholarly fields and aspects of real world issues in the contemporary geopolitical world

The Grazing Land Ecosystems of the African Sahel Henry N. Le Houerou, 2012-12-06 7 2 The Pilot Zone of the Ferlo 157 7 2 1 Geographical Zoning and Administrative Setup 157 7 2 2 Climate 158 7 2 3 The Substratum 161 7 2 4 Surface Water 166 7 2 5 Vegetation and Rangelands 166 7 2 6 Wildlife 168 7 2 7 Livestock 168 7 2 8 Evolution of Land Use and History of Development 170 7 3 Monitoring 181 7 3 1 Principles Problems and Methods 181 7 3 2 Evaluation of Green Herbaceous Biomass by Orbital Remote Sensing 188 7 3 3 Evaluation of Range Production from Ground Sampling 207 7 3 4 Low Altitude Systematic Reconnaissance Flights SRF 211 7 3 5 Practical Results 215 7 4 Conclusions on Monitoring 233 8 General Conclusions Towards an Ecological Management of the Sahelian Ecosystems 237 References 241 Subject

Index 269 of Scientific Names 275 Index Animals 275 Plants 277 VII Abbreviations and Acronyms AVHRR Advanced Very High Resolution Radiometer CILSS Comité Inter États de Lutte contre la Sécheresse au Sahel CIPEA Centre International pour l'Élevage en Afrique CNRS Centre National de la Recherche Scientifique CP Crude Protein N x 6 *Forest Decline and Air Pollution* Ernst-Detlef Schulze, Otto L. Lange, Ram Oren, 2012-12-06 During the last decade forest decline has become increasingly apparent The decline in forest health was often reported to be associated with air pollution The present study on Norway spruce stands in the Fichtelgebirge analyses various processes interacting within forest ecosystems It covers transport and deposition of air pollutants the direct effects of pollutants on above ground plant parts the responses of soil to acid rain and the changing nutrient availability and the accompanying effects on plant metabolism and growth The role of fungi microorganisms and soil animals in the decline of these stands is also assessed The volume is concluded with a synthesis evaluation of the influence of different factors and their interactions on forest decline Plant Biology of the Basin and Range C. Barry Osmond, Louis F. Pitelka, George M. Hidy, 2012-12-06 In a very real sense much of North American physiological plant ecology began in the Basin and Range and has been researched there over the last four decades However we believe that this book may be the first attempt to bring together the full range of contemporary research into the fascinating plant biology of the Basin and Range Province We have invited contributions from researchers presently working in and around the Province and asked them to review the major vegetation zones and distinctive environmental issues from a predominantly plant ecophysiological perspective As researchers interested in plant physiological and ecological processes and in atmospheric processes affecting vegetation we have tended to emphasize the atmosphere plant soil continuum in structuring this book After an introduction to the geography of the region we deal with atmospheric processes and climates of the Great Basin follow with chapters on the different vegetational zones treated from ecophysiological perspectives and then place emphasis on plant soil relations We have not treated plant animal interactions in the detail that the impacts of man and his domesticated animals on the desert ecosystem deserve However we have included a review of a very promising technique analysis of stable isotopes at natural abundance for integration of these processes We close with a compelling statement of the case for the Great Basin as a laboratory for climatic change research prepared by a multidisciplinary team from the Desert Research Institute *Nitrogen in Terrestrial Ecosystems* Carl O. Tamm, 2012-12-06 Nitrogen is a key element in ecosystem processes Aspects of local and global changes in nitrogen in both undisturbed and disturbed conditions are discussed Environmental changes caused by pollution from nitrogenous compounds and changes in land use are also described Organisms plants animals and microorganisms are all affecting nitrogen supply Emphasis is placed on natural and anthropogenic transfer of nitrogen between ecosystems and also on the interaction of nitrogen with other bioelements Epidemics of Plant Diseases Jürgen Kranz, 2012-12-06 In this volume experts present the latest status of mathematical and statistical methods in use for the analysis and modeling of plant disease epidemics Topics treated are methods in

multivariate analyses ordination and classification modeling of temporal and spatial aspects of air and soilborne diseases methods to analyse and describe competition among subpopulations e g pathogen races and their interaction with resistance genes of host plants assemblage and use of models mathematical simulation of epidemics New chapters on the modeling of the spreading of diseases in air and in soil are included in this second edition *Fire in the Tropical Biota* Johann G. Goldammer, 2012-12-06 In 1977 the Volkswagen Foundation sponsored the first of a series of International Symposia on Fire Ecology at Freiburg University Federal Republic of Germany The scope of the congresses was to create a platform for researchers at a time when the science of fire ecology was not yet recognized and established outside of North America and Australia Whereas comprehensive information on the fire ecology of the northern boreal the temperate and the mediterranean biotas is meanwhile available it was recognized that considerable gaps in information exist on the role of fire in tropical and subtropical ecosystems Thus it seemed timely to meet the growing scientific interest and public demand for reliable and updated information and to synthesize the available knowledge of tropical fire ecology and the impact of tropical biomass burning on global ecosystem processes The Third Symposium on Fire Ecology again sponsored by the Volkswagen Foundation and held at Freiburg University in May 1989 was convened to prepare this first pantropical and multidisciplinary monograph on fire ecology The book in which 46 scientists cooperated analyzes those fire related ecosystem processes which have not yet been described in a synoptic way Following the editor's concept duplication at previous efforts in describing tropical vegetation patterns and dynamics was avoided Extensive bibliographical sources are given in the reference lists of the chapters *The Rivers of Florida* Robert J. Livingston, 2012-12-06 This book addresses basic questions concerning the ecological relationships and current conditions of the major river systems in Florida There have been relatively few comprehensive studies made of the rivers of Florida There is to be sure voluminous information that addresses various aspects of riverine ecology However little such information has been collected in a way that allows even a preliminary understanding of the driving forces that determine how the diverse freshwater and associated brackish systems function This lack of useful data is the product of a fundamental ignorance concerning the scale of endeavor both spatially and temporally that is needed if we are to understand and parenthetically manage the major drainage systems of this area of the country Livingston 1987 Research used to address management problems should entail a continuous series of interrelated studies descriptive and experimental that answer the immediate and often less important questions that are asked on a day to day basis The research should also be designed to answer questions that have not yet been asked In other words ecosystem research should be organized on an appropriate scale so that system wide processes are understood and pr **Inorganic Contaminants in the Vadose Zone** Bnayahu Bar-Yosef, N.J. Barrow, J. Goldshmid, 2012-12-06 The understanding of pollutant transformations sorption and transport in soils and uptake by plants is the key to controlling contaminant movement towards groundwater and accumulation in food chains Some of these major processes were discussed in the first International

Workshop on Pollutants in Porous Media convened in Israel in 1983 pollutants in Porous Media Eds Yaron Dagan and Goldshmid Springer Verlag 1984 Since that meeting research on contaminant impact on the environment expanded considerably New mechanisms explaining inorganic pollutant partitioning between solid and solution phases in soils were proposed and tested specific elements and specific reactions were investigated and more case studies to evaluate management practice effects on drinking water quality and accumulation of contaminants in crops were carried out The recognition that the new knowledge needs to be discussed and evaluated and the scientific and engineering communities be updated led the IUPAC International Union of Pure and Applied Chemistry and IAHS International Association of Hydrological Sciences Water Quality Commissions to organize a second International Workshop on pollutant behaviour in the vadose zone hosted by the Institute of Soils and Water of the Agricultural Research Organization Israel In this workshop taking place in June 1987 attention was focused on chemical physico chemical and microbial mediated reactions of different contaminants in the vadose zone This book contains selected works presented in the 1987 workshop by invited specialists from various disciplines and countries

Bulletin of the International Society of Soil Science International Society of Soil Science, 1987

Vascular Plants as Epiphytes Ulrich Lüttge, 2012-12-06 In his lectures my teacher Karl M. Gerdau used to say that one only becomes a real plant scientist when one enters a tropical rainforest For me this initiation occurred in 1969 in northern Queensland Australia and was associated with the greatest excitement On another level it received confirmation when I set out in 1983 together with some friends and colleagues for the first detailed ecophysiological studies of epiphytes in the wet tropics in situ in the island of Trinidad and later for similar work in Venezuela This then promoted the idea of organizing a special symposium on The evolution and ecophysiology of vascular plants as epiphytes during the XIV International Botanical Congress in July 1987 in Berlin and to ask some of the speakers to produce chapters for a small monograph on the interesting ecologically defined group of plants epiphytes as presented in this volume of Ecological Studies The enthusiasm of the participants of the symposium giving reports and adding to the discussion was most stimulating and it appears that epiphytes might gain well deserved wider consideration in the future The cooperation with the authors of this book was very pleasant and I appreciated the new contacts established with adepts of the epiphyte community The chapters were organized and arranged covering first more general aspects with setting the scene in Chapter 1 the evolution of epiphytism in Chapter 2 and the role of CO₂ concentrating mechanisms in Chapter 3

Vertebrates in Complex Tropical Systems Mireille L. Harmelin-Vivien, Francois Bourliere, 2012-12-06 This book addresses the question of what determines species richness in tropical animals by comparing and contrasting the communities of the five major classes of vertebrates in two environments considered to be the most species rich on Planet Earth the coral reef and the rainforest All the contributors were asked to examine how so many species could coexist in such communities and to discuss the ways species assemblages might have evolved over time Because the coauthors are ecologists emphasis is quite naturally placed on the first of these

two questions and the factors contributing to the maintenance of a diversity are discussed at length. However, the question of the very origin of species richness can never be eluded though it is more an evolutionary problem than an ecological one; it has therefore also been given some attention occasionally. Since we believe that long term descriptive data and extended field experience are absolutely essential to formulate meaningful questions and propose realistic models, contributors were selected on the basis of their prolonged field practice: all of them actually spent years in the field and/or participated in long term research programs. The present volume has its origin in a symposium held on August 15, 1986 at Syracuse, New York during the Fourth International Congress of Ecology.

The Northern Forest Border in Canada and Alaska James A. Larsen, 2012-12-06. It is enough to work on the assumption that all of the details matter in the end in some unknown but vital way. Edward O. Wilson. *Biophilia*. Advances in knowledge of northern ecology have been so rapid that to undertake a synthesis of all the literature now available would be a major enterprise, perhaps even a life's work, and so it must be considered permissible to fill in a few gaps, follow one's own inclinations, leaving comprehensive syntheses to those willing to undertake them. This is the rubric under which I have written, reporting some of the more interesting data I and others have obtained over the years, often diverging into discussions of plants, soils, climate, and faunal relationships which have perhaps not previously been dealt with extensively or at least in quite the same way. This is purely intentional since I find it difficult to summon up the needed enthusiasm at this late hour to write on topics which unfortunately for me have little attraction. I have thus written for the pleasure derived from depicting, perhaps at times as something of an impressionist, a fascinating biotic region, a captivating land, a collection of interesting ecological problems, environmental relationships to be discerned in part, perhaps understood to some small degree, perhaps one day to be modeled mathematically. As Leo Szilard once wrote, to be able to say even this much might be of some value. Szilard, 1960.

Acidic Deposition and Forest Soils Dan Binkley, Charles T. Driscoll, H. Lee Allen, Philip Schoeneberger, Drew McAvoy, 2012-12-06. Knowledge in the field of acidic deposition is expanding rapidly and both experts and non-experts are challenged to keep up with the latest information. We designed our assessment to include both the basic foundation needed by non-experts and the detailed information needed by experts. Our assessment includes background information on acidic deposition. Chapter 1: an in-depth discussion of the nature of soil acidity and ecosystem H⁺ budgets. Chapter 2: and a summary of rates of deposition in the Southeastern U.S. Chapter 3: A discussion of the nature of forest soils in the region. Chapter 4: is followed by an overview of previous assessments of soil sensitivity to acidification. Chapter 5: The potential impacts of acidic deposition on forest nutrition are described in the context of the degree of current nutrient limitation on forest productivity. Chapter 6: The results of simulations with the MAGIC model provided evaluations of the likely sensitivity of a variety of soils representative of forest soils in the South. Chapter 7: as well as a test of soil sensitivity criteria. Our synthesis and recommendations for research. Chapter 8: also serve as an executive summary. A complementary volume in the Springer-Verlag Ecological Studies series should be consulted for information on

European forests This volume Acidic Deposition and Forest Decline in the Fichtelgebirge edited by E D Schultze and O L Lange also provides greater detail on the physiologic responses of trees than we present in our regional assessment Soil Organic Matter in Temperate Agroecosystems Long Term Experiments in North America Eldor A. Paul, Keith H. Paustian, E. T. Elliott, C. Vernon Cole, 2019-08-16 The presence or absence of soil organic matter SOM has important implications for agricultural productivity It could also have significant implications for global climate due to its role as a source sink of carbon Therefore it is important to understand the issues related to the accumulation or loss of SOM to use what we have learned from experiments to make sound decisions about soil and crop management and to test models and future concepts concerning SOM management A database is included with the book presenting tabular data for 34 sites in North America Soil Organic Matter in Temperate Agroecosystems discusses all of these issues and more answering such questions as

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