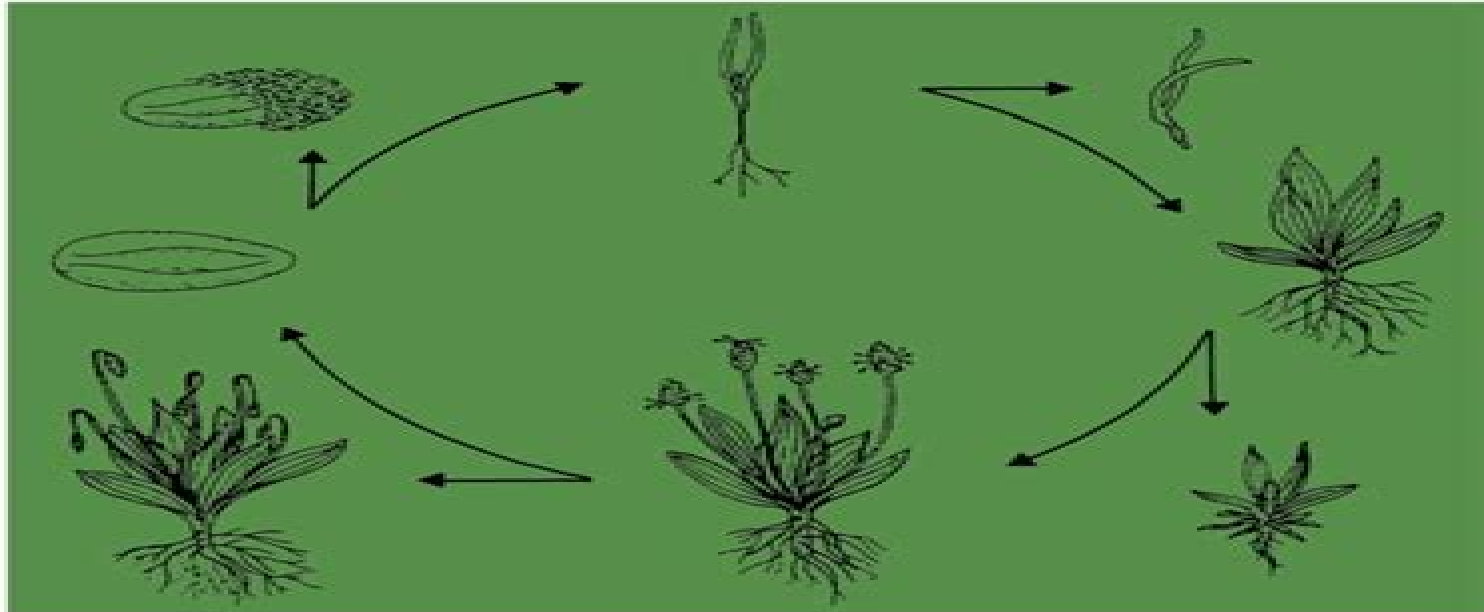


Ecological Studies 89

P. J. C. Kuiper · M. Bos

Plantago: A Multidisciplinary Study



Springer-Verlag

Plantago A Multidisciplinary Study Ecological Studies

Vol 89

Alexander M. Milner, Mark W. Oswood



Plantago A Multidisciplinary Study Ecological Studies Vol 89:

Plantago: A Multidisciplinary Study Pieter J.C. Kuiper, Marten Bos, 2012-12-06 The results published in this book present the outcome of a cooperative research between plant ecologists physiologists and population geneticists The project received generous financial support from the Foundation for Biological Research which is subsidized by the Netherlands Organization for Scientific Research During the course of the Project the value of the integrative approach on a limited number of Plantago species and populations became evident and it was decided that the results should be published as a book The start of the preparation of the plantago book was done by Dr P J M van der Aart and Dr H Lambers but due to their appointment as full professor of the University of Utrecht they were both unable to continue We are greatly indebted to Van der Aart and Lambers for the groundwork they have laid The book presents a sample of results obtained over a period of more than 10 years Research on Plantago is still continuing as evident from a number of publications and doctoral theses We want to thank the authors for their patience and assistance to complete the job The editorial assistance of Mrs I Cameron Doornbos was extremely valuable as well as the help of Mr E Leeuwinga and Mrs N Tolmeijer with the drawings and the help of Mrs T E Stuit with the list of references

Maternal Effects As Adaptations Timothy A. Mousseau, Charles W. Fox, 1998-06-18 Mothers have the ability to profoundly affect the quality of their offspring from the size and quality of their eggs to where when and how eggs and young are placed and from providing for and protecting developing young to choosing a mate In many instances these maternal effects may be the single most important contributor to variation in offspring fitness This book explores the wide variety of maternal effects that have evolved in plants and animals as mechanisms of adaptation to temporally and spatially heterogeneous environments Topics range from the evolutionary implications of maternal effects to the assessment and measurement of maternal effects Four detailed case studies are also included This book represents the first synthesis of the current state of knowledge concerning the evolution of maternal effects and their adaptive significance

Long-Term Experiments with Acid Rain in Norwegian Forest Ecosystems Gunnar Abrahamsen, Arne O. Stuanes, Bjorn Tveite, 2012-12-06 Acid rain is a serious international environmental problem Scandinavian forests have suffered especially severe damage and have been the focus of considerable research on the causes and impacts of atmospheric pollution This book presents the results of long term studies on acid rain in Norwegian forests This research examined soil chemistry and biology the impacts of acid rain on tree growth and nutrition and its influence on ground vegetation fungi and seedling germination and development Long Term Experiments with Acid Rain in Norwegian Forest Ecosystems is a lasting contribution to the literature on acid precipitation and will be of interest to researchers in ecology air pollution forestry and environmental chemistry

Microbial Ecology of Lake Plußsee Jürgen Overbeck, Ryszard J. Chrost, 2012-12-06 Lake Plu see is a small eutrophic kettle lake in northern Germany Because it is sheltered and has no inflow from rivers the Plu see exhibits stable stratification and is especially suitable for limnological studies This book

presents the results of extensive research conducted on the ecophysiology of microorganisms principally bacteria at the Plu see over the past several decades It begins with three chapters on the general limnological state of the lake physical factors inorganic nutrients plankton composition and succession fish fauna etc These chapters are followed by discussions of dissolved organic matter and photosynthetic production of organic matter by phytoplankton The remainder of the book addresses the dynamics of structure function and metabolism of the microorganisms in the Plu see **Global Change and**

Mediterranean-Type Ecosystems Jose Moreno, Walter C. Oechel, 2012-12-06 Regions with Mediterranean type climates include parts of California South America Australia and of course Europe The effect of global climate change on these heavily populated areas will have major social and political ramifications This volume addresses issues in these areas from processes at the leaf level to the individual ecosystem and landscape levels This book will serve to raise awareness on the significance of these types of ecosystems and on their sensitivity to the threat that global change represents **Tropical Forests:**

Management and Ecology Ariel E. Lugo, Carol Lowe, 2012-12-06 Forestry professors used to remind students that whereas physicians bury their mistakes foresters die before theirs are noticed But good institutions live longer than the scientists who contribute to building them and the half century of work of the USDA Forest Service s Institute of Tropical Forestry ITF is in plain view an unprecedented corpus of accomplishments that would instill pride in any organization There is scarcely anyone interested in current issues of tropical forestry who would not benefit from a refresher course in ITF s findings its early collaboration with farmers to establish plantations its successes in what we now call social forestry its continuous improvement of nursery practices its screening trials of native species its development of wood processing technologies appropriate for developing countries its thorough analysis of tropical forest function and its holistic approach toward conservation of endangered species Fortunately ITF has a long history of information exchange through teaching like many others I got my own start in tropical forest ecology from just such a course in Puerto Rico And long before politicians recognized the global importance of tropical forestry the ITF staff served actively as ambassadors of the discipline visiting tropical countries everywhere to learn and when invited to do so to help solve local problems It is a general principle of biogeography that species turnover rates on islands are higher than those on continents Inevitably the same is true of scientists assigned to work on islands **Life History Evolution in Plants** Timo Olavi Vuorisalo, P. Mutikainen, 2001-11-30

The lack of discussion of the life histories of modular organisms is the weakness of this book that I most regret Modular organisms are different S C Stearns The Evolution of Life Histories 1992 Life history theory endeavours to increase our understanding of the processes whereby the broad features of the life cycles of organisms such as the timing and magnitude of reproduction have evolved Although reproductive traits have dominated as study objects due to their immediate importance for evolutionary success much work has also been conducted on patterns of development growth and senescence as well as on the shifts in resource allocation related to these processes The basic axiom of life history theory is that patterns

of life histories such as reproductive traits are subject to evolutionary explanation This idea can be traced back at least as far as Darwin's *Origin of Species* 1859 In his discussion of plant domestication Darwin wrote I cannot doubt that the continued selection of slight variations either in the leaves the flowers or the fruit will produce races differing from each other chiefly in these characters Darwin was impressed by the success of plant breeders in moulding the growth and reproductive parameters of cultivated plants and believed that natural selection could have a similar impact in natural populations

The Role of Fire in Mediterranean-Type Ecosystems Jose M. Moreno, Walter C. Oechel, 2012-12-06 Fire has been recognized as a vital agent influencing the diversity and vigor of landscapes It is particularly important in Mediterranean ecosystems such as those of California This book is of interest to ecologists policy makers and land managers

Freshwaters of Alaska Alexander M. Milner, Mark W. Oswood, 2012-12-06 Alaska's great size is mirrored by the large number and diversity of its freshwater ecosystems This volume reviews and synthesizes research on a variety of Alaskan freshwaters including lakes rivers and wetlands The vast range of Alaskan habitats ensures that the chapters in this book will provide valuable information for readers interested in freshwaters particularly nutrient dynamics biotic adaptations recovery mechanisms of aquatic biota stream succession and the management of human induced changes in aquatic habitats

Tropical Montane Cloud Forests Lawrence S. Hamilton, James O. Juvik, F.N. Scatena, 2012-12-06 Until relatively recently the valuable tropical montane cloud forests hereafter usually referred to as TMCFs of the world had scarcely come under the assaults experienced by the downslope montane and lowland forests TMCFs are not hospitable environments for human occupation and their remoteness except in places near Andean high mountain settlements and in the Ethiopian Highlands and difficult terrain have given them de facto protection The adjacent upper montane rain forests have indeed been under assault for timber fuelwood and for conversion to grazing and agriculture for many decades even centuries in the Andes but true cloud forest has only come under exploitation as these lower elevational resources have disappeared They have also been nibbled at from above where there have been alpine grasslands under grazing pressure Increasingly now however these cloud forest ecosystems are being fragmented reduced and disturbed at an alarming rate It is now becoming recognized that steps must be taken rapidly to increase our understanding of TMCF and to achieve their conservation because their water capture function is extremely important to society their species endemism is high they serve as refugia for endangered species being marginalized in these environments by increasingly transformed lower elevation ecosystems they are relatively little studied yet their value to science is extremely high they have low resilience to disturbance vii viii Preface and many other reasons which will be discussed subsequently in this publication **The Ecology of Aquatic**

Hyphomycetes Felix Bärlocher, 2012-12-06 Aquatic hyphomycetes were discovered 50 years ago by C T Ingold They remained a relatively obscure group until their role as intermediaries between deciduous leaves and stream invertebrates was established some 20 years ago This book for the first time provides a comprehensive summary and critical evaluation of

the biology and ecology of these organisms. A special effort was made to evaluate the potential and actual insight that have been or will be derived from work in related disciplines such as the ecology of other fungal groups, stream ecology or population ecology. The topics treated include the basic life history of the fungi and the potential role of wood, a discussion of how the fungi have adjusted to life in running water, their interactions with invertebrates, the attachment and germination of their spores, what is known about sexual reproduction, how water chemistry may influence their distribution and activity, how they react to human degradation of their environment and a summary of the research done on the Indian subcontinent. The volume is of special interest to mycologists and stream ecologists and should facilitate the entry of new workers into this exciting area.

High-Latitude Rainforests and Associated Ecosystems of the West Coast of the Americas Richard G. Lawford, 1996. Regional intercomparisons between ecosystems on different continents can be a powerful tool to better understand the ways in which ecosystems respond to global change. Large areas are often needed to characterize the causal mechanisms governing interactions between ecozones and their environments. Factors such as weather and climate patterns, land-ocean and land-atmosphere interactions all play important roles. As a result of the strong physical north-south symmetry between the western coasts of North and South America, the similarities in climate, coastal oceanography and physiography between these two regions have been extensively documented. *High Latitude Rain Forests and Associated Ecosystems of the West Coast of the Americas* presents current research on West Coast forest and river ecology and compares ecosystems of the Pacific Northwest with those of South America.

The Structuring Role of Submerged Macrophytes in Lakes Erik Jeppesen, Martin Søndergaard, Morten Søndergaard, Kirsten Christoffersen, 2012-12-06. Submerged macrophytes have been the object of intensive research and a large body of literature exists on their growth, reproduction and physiology. Several studies have focused on the interactions between submerged macrophytes and other autotrophic components and the impact of the plants on the dynamics of nutrients, dissolved organic and inorganic carbon, oxygen and pH. Comparatively few studies have dealt with the ability of submerged macrophytes to modulate the structure and dynamics of pelagic and benthic food webs. Recently, however, the amount of research into the structuring role of submerged macrophytes in food webs has markedly increased and the results obtained so far suggest that submerged macrophytes are of significant importance for the food web interactions and environmental quality of lakes, even at relatively low areal plant coverage. For example, plants affect the interactions between predacious planktivorous and benthivorous fish and between fish and invertebrates, including key organisms such as large zooplankton and snails. Changes in these interactions in turn may have cascading effects on the entire food web in both the pelagial and the littoral zone. To provide a forum for discussion of recent results in this growing field of research and to define future research needs, a workshop was held on 16 to 20 June 1996 at the Freshwater Centre in Silkeborg, Denmark. The present book is a result of the workshop. It is divided into three parts.

Peatland Forestry Eero Paavilainen, Juhani Päivänen, 1995-04-13. The book provides a review and synthesis of boreal mire ecosystems including peat

soil properties mire hydrology carbon and nutrient cycling and classification of mire sites The emphasis however is on peatland forests as a renewable natural resource The approach originated in northern Europe because there especially in Finland operational scale forest drainage has a long tradition based on research aiming to maintain and increase wood production on peatlands Whenever relevant a closer look is also given to other countries in Europe Canada and the USA The results of recent studies on different environmental effects of peatland forestry are also discussed in detail

Responses of Northern U.S. Forests to Environmental Change Robert A. Mickler, Richard A. Birdsey, John Hom, 2012-12-06 In the Global Change Research Act of 1990 global change is defined as changes in the global environment including alterations in climate land productivity oceans or other water resources atmospheric chemistry and ecological systems that may alter the capacity of the Earth to sustain life For the purposes of this book we interpret the definition of global change broadly to include physical and chemical environmental changes that are likely to affect the productivity and health of forest ecosystems over the long term Important environmental changes in the Northern United States include steadily increasing atmospheric carbon dioxide tropospheric ozone wet and dry deposition of nitrogen and sulfur compounds acidic precipitation and clouds and climate variability These environmental factors interact in complex ways to affect plant physiological functions and soil processes in the context of forest landscapes derived from centuries of intensive land use and natural disturbances Research in the North has begun to unravel some key questions about how environmental changes will impact the productivity and health of forest ecosystems species distributions and abundance and associations of people and forests Initial research sponsored by the USDA Forest Service under the United States Global Change Research Program USGCRP was focused on basic process level understanding of tree species and forest v VI Preface ecosystem responses to environmental stress Chemical pollution stresses received equal emphasis with climate change concerns

Biogeochemistry of a Subalpine Ecosystem Jill Baron, 2012-12-06 Rocky Mountain National Park was established in 1915 one year before the creation of the National Park Service The mandate of the National Park Service is to preserve and protect areas of exquisite beauty and cultural value for the benefit and enjoyment of future generations National parks mean many things to many people and in often stirring words a National Parks and Conservation Association report states the National Park System is a magnificent and uniquely American gift to the American people and the world In the early years of the Service park superintendents actively promoted and developed parks to accommodate visitors Then as now parks represented a democratic ideal that even the greatest treasures should be available to all Seventy five years ago however park managers saw little need for active management of natural resources unless it was to enhance visitors experience And few managers saw the need for a stable and independent research program on which to base management decisions Thus began a legacy of erratic often passive resource management based more on politics and in house studies than on validated scientific information The world is a different place than it was 75 years ago Human population growth changes in land use and ever more sophisticated

technology affect the very fabric of life on Earth As local regional and global scale changes occur from human tampering with the environment the integrity of natural ecosystems is threatened worldwide **Crassulacean Acid Metabolism** Klaus Winter,J.Andrew C. Smith,2012-12-06 Crassulacean acid metabolism CAM represents one of the best studied metabolic examples of an ecological adaptation to environmental stress Well over 5 % of all vascular plant species engage in this water conserving photosynthetic pathway Intensified research activities over the last 10 years have led to major advances in understanding the biology of CAM plants New areas of research reviewed in detail in this book include regulation of gene expression and the molecular basis of CAM the ecophysiology of CAM plants from tropical environments the productivity of agronomically important cacti and agaves the ecophysiology of CAM in submerged aquatic plants and the taxonomic diversity and evolutionary origins of CAM **Arctic and Alpine Biodiversity: Patterns, Causes and Ecosystem Consequences**

F.Stuart III Chapin,Christian Körner,2013-03-08 As human populations expand and have increasing access to technology two general environmental concerns have arisen First human populations are having increasing impact on the earth system such that we are altering the biospheric carbon pools basic processes of elemental cycling and the climate system of the earth Because of time lags and feedbacks these processes are not easily reversed These alterations are occurring now more rapidly than at any time in the last several million years Secondly human activities are causing changes in the earth's biota that lead to species extinctions at a rate and magnitude rivaling those of past geologic extinction events Although environmental change is potentially reversible at some time scales the loss of species is irrevocable Changes in diversity at other scales are also cause for concern Habitat fragmentation and declines in population sizes alter genetic diversity Loss or introduction of new functional groups such as nitrogen fixers or rodents onto islands can strongly alter ecosystem processes Changes in landscape diversity through habitat modification and fragmentation alter the nature of processes within and among vegetation patches Although both ecological changes altering the earth system and the loss of biotic diversity have been major sources of concern in recent years these concerns have been largely independent with little concern for the environmental causes the ecosystem consequences of changes in biodiversity These two processes are clearly interrelated Changes in ecological systems cause changes in diversity **Biodiversity and Savanna Ecosystem Processes** Otto T.

Solbrig,Ernesto Medina,Juan F. Silva,2013-03-07 Savannas are the most widespread ecosystem in the tropics and as such are subjected to great human pressure that may result in massive soil degradation The book addresses the role of species in the function of savanna ecosystems It is shown that savannas are enormously diverse and that four factors determine the function of savanna ecosystems Plant Available Moisture Plant Available Nutrients Fire Herbivores **Palms in Forest Ecosystems of Amazonia** Francis Kahn,Jean-Jacques de Granville,2012-12-06 Palms are tropical miracles Heinrich Heine the German poet stated Unter den Palmen wandert man nicht ungestraft i.e. one does not wander unpunished under the palms It was Professor H C D de Wit who taught me this in the late 1950s and it is a pleasure to forward this message to the

next generation in such an appropriate book Both authors as I know them will bear the punishment of the palms They will never be without palm nostalgia if and when living somewhere outside this world's tropical and subtropical palm belt Palm nostalgia goes further than palms alone It concerns the landscape the short but splendid sunsets and last but not least the tropical people Their elegance of living structured in subtler ways than managers will ever understand their laughter which may be a more decisive weapon against the troubles besetting the tropics than mere economics and their unique life force erupting on festive as well as sad occasions under the palms will always remain with those who wandered beneath these trees I know I was there

Plantago A Multidisciplinary Study Ecological Studies Vol 89 Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Plantago A Multidisciplinary Study Ecological Studies Vol 89**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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