

Ecological Studies 75

Henry Noël Le Houérou

The Grazing Land Ecosystems of the African Sahel



Springer-Verlag

The Grazing Land Ecosystems Of The African Sahel Ecological Studies

Francis Kahn, Jean-Jacques de Granville



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Economic Plants in Arid and Semi-Arid Lands Gerald E. Wickens, 2013-04-17 This book deals with arid and semi arid environments and their classification and the physiological restraints and adaptations of plants to the environment Further it discusses economic botany and the needs and methods of conserving economic plants A broad view is taken regarding the definition of economic plants taking into account their value to the environment as well as to man and to livestock The individual deserts and associated semi arid regions are described in separate chapters providing background information on the regional environments in terms of climate and major plant formations The economic plants within these formations their usages geographical distribution together with their morphological and physiological adaptations are treated in detail

Global Change and Terrestrial Ecosystems Brian Harrison Walker, Will Steffen, 1996-11-13 This major new book presents a collection of essays by leading authorities who address the current state of knowledge The chapters bring together the early results of an international scientific research program designed to address what will happen to our ability to produce food and fiber and what effects there will be on biological diversity under rapid environmental change This book addresses how these changes to terrestrial ecosystems will feed back to further environmental change International in scope this state of the art assessment will interest policymakers students and scientists interested in global change climate change and biodiversity Special features include descriptions of a dynamic global vegetation model developing generic crop models and a special section on the emerging discipline of global ecology **Encyclopedia of Environmental Management, Four Volume Set** Sven Erik Jorgensen, 2012-12-13 Winner of an Outstanding Academic Title Award from CHOICE Magazine Encyclopedia of Environmental Management gives a comprehensive overview of environmental problems their sources their assessment and their solutions Through in depth entries and a topical table of contents readers will quickly find answers to questions about specific pollution and management issues Edited by the esteemed Sven Erik J rgensen and an advisory board

of renowned specialists this four volume set shares insights from more than 500 contributors all experts in their fields The encyclopedia provides basic knowledge for an integrated and ecologically sound management system Nearly 400 alphabetical entries cover everything from air soil and water pollution to agriculture energy global pollution toxic substances and general pollution problems Using a topical table of contents readers can also search for entries according to the type of problem and the methodology This allows readers to see the overall picture at a glance and find answers to the core questions What is the pollution problem and what are its sources What is the big picture or what background knowledge do we need How can we diagnose the problem both qualitatively and quantitatively using monitoring and ecological models indicators and services How can we solve the problem with environmental technology ecotechnology cleaner technology and environmental legislation How do we address the problem as part of an integrated management strategy This accessible encyclopedia examines the entire spectrum of tools available for environmental management An indispensable resource it guides environmental managers to find the best possible solutions to the myriad pollution problems they face Also Available Online This Taylor Francis encyclopedia is also available through online subscription offering a variety of extra benefits for researchers students and librarians including Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options Contact us to inquire about subscription options and print online combination packages US Tel 1 888 318 2367 email e reference taylorandfrancis com International Tel 44 0 20 7017 6062 email online sales tandf co uk

Pastoralism and Development in Africa Andy Catley,Ian Scoones,Jeremy Lind,2013 Once again the Horn of Africa has been in the headlines And once again the news has been bad drought famine conflict hunger suffering and death The finger of blame has been pointed in numerous directions to the changing climate to environmental degradation to overpopulation to geopolitics and conflict to aid agency failures and more But it is not all disaster and catastrophe Many successful development efforts at the margins often remain hidden informal sometimes illegal and rarely in line with standard development prescriptions If we shift our gaze from the capital cities to the regional centres and their hinterlands then a very different perspective emerges These are the places where pastoralists live They have for centuries struggled with drought conflict and famine They are resourceful entrepreneurial and innovative peoples Yet they have been ignored and marginalised by the states that control their territory and the development agencies who are supposed to help them This book argues that while we should not ignore the profound difficulties of creating secure livelihoods in the Greater Horn of Africa there is much to be learned from development successes large and small This book will be of great interest to students and scholars with an interest in development studies and human geography with a particular emphasis on Africa It will also appeal to development policy makers and practitioners

Bioclimatology and Biogeography of Africa Henry N. Houérou,2008-12-10 Covering an area of over 130 million km² spanning the Mediterranean equator and tropics the African continent features a spectacular geographic diversity Consequently it is characterised by extremely variable climatic edaphic

and ecological conditions associated with a wide range of natural vegetation and wildlife as well as human population density crops and livestock In this book Henry Le Hou rou presents his bioclimatic and biogeographic classification of Africa The extensive data provide the basis for comparisons between various African regions and with regions on other continents such as Latin America or the Indian subcontinent The results constitute a rational basis for national regional and sub regional rural development planning and for agricultural research dealing with aspects such as plant and animal introductions the extrapolation or interpolation of experimental or developmental findings and ecosystems dynamics Possible problems of applications are also examined

Natural Grasslands R.T. Coupland,1993-02-01 This volume is concerned with those parts of the earth s surface where semiarid to subhumid climate determines that the potential vegetation is characterized by a more or less continuous layer of grasses and other associated herbs These grasslands have been modified to a very considerable degree by the activities of man and his domesticated animals The authors of the various chapters have evaluated the effect of these stresses in modifying ecosystem structure and activities of organisms The book provides an intensively referenced and indexed synthesis and review of knowledge concerning the natural grasslands of the world in as uniform a style as possible Because of its length it is published in two parts The first part deals with the grasslands of the Western Hemisphere and the Eastern Hemisphere and the resum compose this second volume

Modelling Vector-borne and Other Parasitic Diseases Hansen, J.W (ed.),Brain D. Perry,1994-01-01

The Ecozones of the World Jürgen Schultz,2013-06-29 The preliminary work on this book goes back to lectures and seminars which I held on the subject of an ecological division of the world at the Geographical Department ofthe Aachen University of Technology RWTH Aachen The idea of presenting this material in book form arose as I became aware that no modern compendium exists in either German or English or in any other language as far as I know which could have aided me in preparing these courses or would have helped the participating students to review the material presented in the classroom Existing studies on major land ecosystems some of which are highly de tailed have been published over the past 15 years by firms such as the Springer Verlag Ecological Studies the Cambridge University Press International Biological Programme and the Elsevier Scientific Publishing Company Ecosystems of the World all suffer from the fact that individual aspects mainly botanical ecological ones are given the utmost consideration while other aspects often pedological and geomorphological ones are almost entirely neglected Furthermore it is most aggravating that the various studies have failed to establish consistent terminology units of measurement and organization of the data for all of the global ecosystems thus making it difficult even for the knowledgeable reader to make comparisons The individual nature of each ecozone therefore remains unclear since it is precisely these differences that allow those characteristics peculiar to a specific ecozone to be unmistakably recognized

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 w3 ldered beneath these trees I know I was there

Encyclopedia of Soil Science Rattan Lal, 2017-01-11 New and Improved Global Edition Three Volume Set A ready reference addressing a multitude of soil and soil management concerns the highly anticipated and widely expanded third edition of *Encyclopedia of Soil Science* now spans three volumes and covers ground on a global scale A definitive guide designed for both coursework and self study this latest version describes every branch of soil science and delves into trans disciplinary issues that focus on inter connectivity or the nexus approach For Soil Scientists Crop Scientists Plant Scientists and More A host of contributors from around the world weigh in on underlying themes relevant to natural and agricultural ecosystems Factoring in a rapidly changing climate and a vastly growing population they sound off on topics that include soil degradation climate change soil carbon sequestration food and nutritional security hidden hunger water quality non point source pollution micronutrients and elemental transformations New in the Third Edition Contains over 600 entries Offers global geographical and thematic coverage Entries peer reviewed by subject experts Addresses current issues of global significance *Encyclopedia of Soil Science* Third Edition Three Volume Set expertly explains the science of soil and describes the material in terms that are easily accessible to researchers students academicians policy makers and laymen alike Also Available Online This Taylor E mail e reference taylorandfrancis.com International Tel 44 0 20 7017 6062 E mail online_sales@tandf.co.uk

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 technol ogy two general environmental concerns have arisen First human pop ulations 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 di versity Loss or introduction of new functional groups such as nitro gen 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.

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.

Holocene Palaeoenvironmental History of the Central Sahara Roland Baumhauer, Jürgen Runge, 2009-02-27 The environmental setting within the Central Sahara was subject to considerable changes during Late Quaternary, mainly driven by major global climate variations, although human impact increased constantly since Early Holocene. Such global events can be reconstructed with the help of relief, sediments and palaeosoils and their specific morphological

Minimum Animal Populations Hermann Remmert, 2012-12-06 HERMERT Small populations are very often discussed but there seems to be no general overview touching all the self-evident but normally simply neglected problems connected with small populations. First, there are many very different types of organisms and as every biologist should know, the problems of small populations are very different in different types of organisms. 1 In vascular plants, the problems are different from the situation in birds and mammals; in marine benthic animals or in parasites such as tapeworms, the problems are different again; and in seasonal planktonic animals or insects, they are different from those in biotopes under constant conditions. In tapeworms or in vascular plants, an adult organism seems to be comparable to a population of mammals or birds because its offspring can be so diverse and plentiful. 2 There are small populations which explode and break down to a small population again and then explode and break down again.

Rocky Shores: Exploitation in Chile and South Africa W. Roy Siegfried, 2013-03-07 It seems almost trite to introduce this book by saying that man has been exploiting the intertidal zone for food for a long time. Just how long nobody knows for sure, but the prehistoric inhabitants of Terra Amata on the Mediterranean coast near Nice ate marine intertidal animals at least 300 000 years ago. Similar impressive evidence going back to at least 100 000 years exists for prehistoric man's consumption of intertidal animals along the South African coast. However, early man's dependence on intertidal resources probably goes back much further in time. During the last 2 million or so years, temperate Eurasia experienced some 20 glaciations interspersed by

warm equable periods Different modes of life were open to man in colonizing the northern temperate zone One was to become a big game hunter specializing for example on mammoths the other to exploit marine intertidal resources Of the two probably the shoreline offered an easier environment for an original scavenging food gatherer

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

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 Aspecial 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

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 *Acta Forestalia Fennica* ,1995

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