

Henry Noël Le Houérou

# The Grazing Land Ecosystems of the African Sahel



# The Grazing Land Ecosystems Of The African Sahel Ecological Studies

**Rosina Ehmann**



## **The Grazing Land Ecosystems Of The African Sahel Ecological Studies:**

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Bioclimatology and Biogeography of Africa Henry N. Houérou, 2008-12-10 Covering an area of over 130 million km<sup>2</sup> 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 Hourou 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 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

**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

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

*Kenya's Changing Landscape* Raymond M. Turner, H. Awala Ochung', Jeanne B. Turner, 2021-11-09 Botanist Homer L Shantz took photographs of the Kenyan landscape in the early 1920s as part of his effort to document the natural plant cover of Africa He returned there with B L Turner in the late 1950s to repeat the photographs In 1990 Raymond Turner traveled to Kenya under the auspices of the National Geographic Society in order to match the photographs made by Shantz and B L Turner and to show the changes that have occurred over the decades since Shantz's initial journey Turner's comparative photos and research into the botanical record dramatically reflect the encroachment of woody plants in arid areas and the increasing human impact in more humid locales Turner's discussions of the photographs and the conclusions he draws provide an important reference for ecologists geographers botanists and other researchers attempting similar studies By documenting vegetation change in a region broadly similar climatically to North America's subtropical deserts and grasslands but different in its wildlife and its human culture the book shows that the endpoints of landscape status are similar despite the vastly different histories of these two regions of the world

**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

Ecological Heterogeneity Jurek Kolasa, Steward T.A. Pickett, 2012-12-06 An attractive promising and frustrating feature of

ecology is its complexity both conceptual and observational. Increasing acknowledgment of the importance of scale testifies to the shifting focus in large areas of ecology. In the rush to explore problems of scale, another general aspect of ecological systems has been given less attention. This aspect, equally important, is heterogeneity. Its importance lies in the ubiquity of heterogeneity as a feature of ecological systems and in the number of questions it raises, questions to which answers are not readily available. What is heterogeneity? Does it differ from complexity? What dimensions need be considered to evaluate heterogeneity adequately? Can heterogeneity be measured at various scales? Is heterogeneity apart of organization of ecological systems? How does it change in time and space? What are the causes of heterogeneity and causes of its change? This volume attempts to answer these questions. It is devoted to identification of the meaning, range of applications, problems, and methodology associated with the study of heterogeneity. The coverage is thus broad and rich, and the contributing authors have been encouraged to range widely in discussions and reflections.

**Preface** The chapters are grouped into themes. The first group focuses on the conceptual foundations. Chapters 1-5. These papers examine the meaning of the term, historical developments, and relations to scale. The second theme is modeling population and interspecific interactions in heterogeneous environments. Chapters 6 and 7.

**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 TCMF 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.

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

*African Ecology* Clive Spinage, 2012-05-07. In view of the rapidly changing ecology of Africa, this work provides benchmarks for some of the major and more neglected aspects, with an accent on historical data to enable habitats to be seen in relation to their previous state, forming a background reference work to understanding how the

ecology of Africa has been shaped by its past. Reviewing historical data wherever possible it adopts an holistic view treating man as well as animals with accent on diseases both human and animal which have been a potent force in shaping Africa's ecology, a role neglected in ecological studies. **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. Mammals of Africa: Volume VI Jonathan

Kingdon, 2014-11-20. Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal. This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology, distribution, biology and evolution, including reference to fossil and molecular data of Africa's mammals. With more than 1 160 species and 16 18 orders, Africa has the greatest diversity and abundance of mammals in the world. The reasons for this and the mechanisms behind their evolution are given special attention in the series. Each volume follows the same format with detailed profiles of every species and higher taxa. The series includes hundreds of colour illustrations and pencil drawings by Jonathan Kingdon highlighting the morphology and behaviour of the species concerned as well as line drawings of skulls and jaws by Jonathan Kingdon and Meredith Happold. Every species also includes a detailed distribution map. Edited by Jonathan Kingdon, David Happold, Tom Butynski, Mike Hoffmann, Meredith Happold and Jan Kalina and written by more than 350 authors, all experts in their fields. Mammals of Africa is as comprehensive a compendium of current knowledge as is possible. Extensive references alert readers to more detailed information. Volume VI, edited by Jonathan Kingdon and Michael Hoffmann, comprises a single order currently subdivided into three suborders containing the hippopotamuses, pigs, chevrotains, deer, Giraffe, Okapi, buffalos, spiral horned antelopes, dwarf antelopes, duikers, grysboks, Beira dik diks, gazelles, Klipspringer, Oribi, reuduncines, Impala, alcelaphines, horse-like antelopes, sheep and goats. The volume contains 98 species profiles. **Mammals of Africa** Jonathan

Kingdon, David Happold, Thomas Butynski, Michael Hoffmann, Meredith Happold, Jan Kalina, 2013-05-23. WINNER OF THE 2014 DARTMOUTH MEDAL AWARDED BY THE AMERICAN LIBRARY ASSOCIATION. Mammals of Africa represents a high

water mark not just in mammalogy but in scientific publishing overall Magnificent Tim Flannery Macquarie University Sydney Mammals of Africa MoA is a series of six volumes which describes in detail every currently recognized species of African land mammal This is the first time that such extensive coverage has ever been attempted and the volumes incorporate the very latest information and detailed discussion of the morphology distribution biology and evolution including reference to fossil and molecular data of Africa s mammals With 1 160 species and 16 orders Africa has the greatest diversity and abundance of mammals in the world The reasons for this and the mechanisms behind their evolution are given special attention in the series Each volume follows the same format with detailed profiles of every species and higher taxa The series includes some 660 colour illustrations by Jonathan Kingdon and his many drawings highlight details of morphology and behaviour of the species concerned Diagrams schematic details and line drawings of skulls and jaws are by Jonathan Kingdon and Meredith Happold Every species also includes a detailed distribution map Extensive references alert readers to more detailed information

**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

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

*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

*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

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