

SERENGETI ECOSYSTEM



Serengeti Dynamics Of An Ecosystem

**Jonathan Kingdon, David
Happold, Thomas Butynski, Michael
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Serengeti Dynamics Of An Ecosystem:

Serengeti A. R. E. Sinclair, M. Norton-Griffiths, 1979 Dynamics of the serengeti ecosystem process and pattern The serengeti environment Grassland herbivore dynamics The eruption of the ruminants The migration and grazing succession Feeding strategy and the pattern of resource partitioning in ungulates Energy costs of locomotion and the concept of foraging radius The dynamics of ungulate social organization Serengeti predators and their social systems Population changes in lions and other predators The adaptations of scavengers A simulation of the wildebeest population other ungulates and their predators The influence of grazing browsing and fire on the vegetation dynamics of the serengeti Changes in populations of resident ungulates

Serengeti II A. R. E. Sinclair, Peter Arcese, 1995-08 Serengeti II Dynamics Management and Conservation of an Ecosystem brings together twenty years of research by leading scientists to provide the most thorough understanding to date of the spectacular Serengeti Mara ecosystem in East Africa home to one of the largest and most diverse populations of animals in the world Building on the groundwork laid by the classic Serengeti Dynamics of an Ecosystem published in 1979 by the University of Chicago Press this new book integrates studies of the ecosystem at every level from the plants at the bottom of the visible food chain to the many species of herbivores and predators to the system as a whole Drawing on new data from many long term studies and from more recent research initiatives and applying new theory and computer technology the contributors examine the large scale processes that have produced the Serengeti's extraordinary biological diversity as well as the interactions among species and between plants and animals and their environment They also introduce computer modeling as a tool for exploring these interactions employing this new technology to test and anticipate the effects of social political and economic changes on the entire ecosystem and on particular species and so to shape future conservation and management strategies

Serengeti III A. R. E. Sinclair, Craig Packer, Simon A. R. Mduma, John M. Fryxell, 2009-05-15 Serengeti National Park is one of the world's most diverse ecosystems a natural laboratory for ecology evolution and conservation with a history that dates back at least four million years to the beginnings of human evolution The third book of a ground breaking series Serengeti III is the result of a long term integrated research project that documents changes to this unique ecosystem every ten years Bringing together researchers from a wide range of disciplines ecologists paleontologists economists social scientists mathematicians and disease specialists this volume focuses on the interactions between the natural system and the human dominated agricultural system By examining how changes in rainfall wildebeest numbers commodity prices and human populations have impacted the Serengeti ecosystem the authors conclude that changes in the natural system have affected human welfare just as changes in the human system have impacted the natural world To promote both the conservation of biota and the sustainability of human welfare the authors recommend community based conservation and protected area conservation Serengeti III presents a timely and provocative look at the conservation status of one of earth's most renowned ecosystems

The Biology of African Savannahs Bryan Shorrocks, William Bates, 2015 Savannah habitats comprise an ecologically important but ultimately fragile ecosystem. They constitute one of the largest biomes on Earth covering almost 20% of the land surface and can be simply described as tropical and subtropical grasslands with scattered bushes and trees. Most savannahs occur in Africa although smaller areas can be found in South America, India, and Australia. They form a rich mosaic of diverse ecosystems and this book offers a concise but comprehensive introduction to their ecology, biodiversity, and conservation. The Biology of African Savannahs describes the major plants, grasses, and trees such as Acacia and animals, mainly large mammals that live in this habitat and examines the biological and ecological factors that influence their population size, interactions such as predation, and community composition. Conservation issues such as climate change, hunting, and conflict between wildlife and domestic animals are also discussed. This new edition has been updated throughout with the latest research in the field and contains new technique boxes which introduce readers to some of the analytical methods used to study African savannahs. This accessible text is suitable for both senior undergraduate and graduate students taking courses in savannah and tropical ecology as part of a wider ecology and/or conservation biology degree programme. It will also be of relevance and use to the many professional ecologists and conservation practitioners requiring a concise but authoritative overview of the topic. *Tropical Ecosystems and Ecological Concepts* Patrick L.

Osborne, 2000-08-31 An introductory textbook on tropical ecology unique in its international scope and balanced coverage of both aquatic and terrestrial systems. David S. Wilcove, 2007-11 Animal migration is a magnificent sight: a mile long blanket of cranes rising from a Nebraska river and filling the sky; hundreds of thousands of wildebeests marching across the Serengeti; a blaze of orange as millions of monarch butterflies spread their wings to take flight. Nature's great migrations have captivated countless spectators none more so than premier ecologist David S. Wilcove. In *No Way Home* his awe is palpable as are the growing threats to migratory animals. We may be witnessing a dying phenomenon among many species. Migration has always been arduous but today's travelers face unprecedented dangers. Skyscrapers and cell towers lure birds and bats to untimely deaths; fences and farms block herds of antelope; salmon are caught en route between ocean and river; breeding and wintering grounds are paved over or plowed; and global warming disrupts the synchronized schedules of predators and prey. The result is a dramatic decline in the number of migrants. Wilcove guides us on their treacherous journeys describing the barriers to migration and exploring what compels animals to keep on trekking. He also brings to life the adventures of scientists who study migrants. Often as bold as their subjects, researchers speed wildly along deserted roads to track birds soaring overhead, explore glaciers in search of frozen locusts, and outfit dragonflies with transmitters weighing less than one one-hundredth of an ounce. Scientific discoveries and advanced technologies are helping us to understand migrations better but alone they won't stop sea turtles and songbirds from going the way of the bison or passenger pigeon. What's required is the commitment and cooperation of the far-flung countries migrants cross long before extinction is a

threat As Wilcove writes protecting the abundance of migration is key to protecting the glory of migration No Way Home offers powerful inspiration to preserve those glorious journeys **National Park Science** Jane Carruthers,2017-08-17 South Africa is renowned for its wildlife and environmental conservation in iconic national parks such as the Kruger one of the world s first formal protected areas However this is the first book to thoroughly analyse and explain the interesting and changing scientific research that has been accomplished in South Africa s national parks during the twentieth century Providing a fascinating and thorough historical narrative based on an extensive range of sources this text details the evolution of traditional natural history pursuits to modern conservation science in South Africa covering all research areas of conservation biology and all the national parks around the country It reveals the interaction between the international context government learning institutions and the public that has shaped the present conservation arena A complex story that will interest and inform not only those involved in conservation science of South Africa but worldwide **World Savannas** Jayalaxshm Mistry,Andrea Beradi,2014-09-15 An interdisciplinary text on the world s savannas covering the geography ecology economics and politics of savanna regions Savannas are a distinct vegetation type covering a third of the world s land surface area and supporting a fifth of the world s population There has been a wide range of literature on the subject but the majority of work has focused on the ecology or development of savanna areas ignoring the wider interdisciplinary issues affecting contemporary savannas World Savannas aims to buck this trend providing students with an up to date and comprehensive introduction to the global importance of savannas **Yellowstone's Destabilized Ecosystem** Frederic H. Wagner,2006-05-25 The beloved Yellowstone National Park underwent a management shift in 1969 that drastically altered its landscape This book comes at a time when scientific results are sometimes withheld so that they do not challenge policy positions The author charges that Yellowstone supported research has produced a faulty ecological paradigm whether consciously or not in order to maintain status quo of the Park s natural regulation policy Wagner s ecosystem model of the Park s northern range focuses on a low elevation region of the Park where a large herd of Rocky Mountain elk winters His study spans 132 years of ecological hydrologic archaeological photographic and historic evidence and synthesizes the herd s impact over time **BOOK JACKET** **Ecology in Action** Fred D. Singer,2016-03-10 Taking a fresh approach to integrating key concepts and research processes this undergraduate textbook encourages students to develop an understanding of how ecologists raise and answer real world questions Four unique chapters describe the development and evolution of different research programs in each of ecology s core areas showing students that research is undertaken by real people who are profoundly influenced by their social and political environments Beginning with a case study to capture student interest each chapter emphasizes the linkage between observations ideas questions hypotheses predictions results and conclusions Discussion questions integrated within the text encourage active participation and a range of end of chapter questions reinforce knowledge and encourage application of analytical and critical thinking skills to real ecological questions Students

are asked to analyze and interpret real data with support from online tutorials demonstrating the R programming language for statistical analysis

Carrion Ecology, Evolution, and Their Applications M. Eric Benbow, Jeffery K. Tomberlin, Aaron M. Tarone, 2025-07-17 The first edition of Carrion Ecology Evolution and Their Applications brought together multiple scientific disciplines to shed light on the importance of carrion within the context of ecology and evolutionary biology and through applications ranging from human mass disasters to habitat ecosystem conservation This second edition builds upon this foundation to include a huge amount of new research consisting of 33 chapters 9 brand new and the remaining 24 substantially updated and expanded One of the most significant changes for this edition is the coverage of aquatic ecosystems both freshwater and marine The book is now represented by 73 authors from eight countries incorporating more diverse perspectives and engagement into this multidisciplinary and expanding science The resulting new edition showcases a broader scope of topics geographic areas ecosystems and history of carrion ecology evolution and their applications for humanity It provides the most comprehensive resource on carrion from all ecosystems of the world The student academic and professional will find this book insightful providing new insights for the fields of molecular ecology microbiology entomology population biology community and ecosystem ecology as well as applications in forensics and human and environmental health

Perspectives on Plant Competition James Grace, 2012-12-02 Perspectives on Plant Competition is mainly about addressing the many different perspectives in plant competition and finding a common ground among them Its aim is that through this common ground new theories can be created Encompassing 20 chapters this book is divided into three parts Part I Perspectives on the Determinants of Competitive Success consists of eight chapters This section deals mainly on the question of determination of competitive success Different writers put forward various definitions of competition and competitive success to shed light on the question at hand In the second part of this book an opposing set of views regarding the consequences of competitive interactions for the plant community structure is provided This section emphasizes the idea that competition is not the sole force in natural communities Each chapter in this part focuses on a certain aspect of competition as seen in different communities across and within habitats and systems Part III which comprises of four chapters focuses on the competition within the context of interaction of plants with organisms on the other trophic levels The chapters set forth the idea that competition depends on the impacts of herbivores parasites and symbionts The concluding part of the book greatly emphasizes the need to integrate the mechanisms of competition into the framework of the entire food web

The Asian Elephant R. Sukumar, 1992 This ecological analysis of elephant human interaction and its implications for the conservation of Asian elephants includes recommendations on conservation and management taking into consideration the socio economic characteristics of the Asian region

Mammals of Africa Jonathan Kingdon, David Happold, Thomas Butynski, Michael Hoffmann, Meredith Happold, Jan Kalina, 2013-05-23 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.

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Terrestrial Ecosystems in Changing Environments
Herman Henry Shugart, 1998-03-26 A unique review of the problem of predicting the response of ecosystems to changed conditions

African Paleoecology and Human Evolution Sally C. Reynolds, René Bobe, 2022-06-09 A comprehensive account of hominin fossil sites across Africa including the environmental and ecological evidence central to our understanding of human evolution

Tarangire: Human-Wildlife Coexistence in a Fragmented Ecosystem Christian Kiffner, Monica L. Bond, Derek E. Lee, 2022-04-22 This edited volume summarizes multidisciplinary work on wildlife conservation in the Tarangire Ecosystem of northern Tanzania. By drawing together human-centered, wildlife-centered and interdisciplinary research, this book contributes to furthering our understanding of the often complex mechanisms underlying human-wildlife interactions in dynamic landscapes. By synthesizing the wealth of knowledge generated by anthropologists, ecologists, conservationists, entrepreneurs, geographers, sociologists and zoologists over the last decades, this book also highlights practicable and locally adapted solutions for shaping human-wildlife interactions towards coexistence. Readers will discover the reciprocal and often unexpected direct and indirect dynamics between people and wildlife. While boundaries e.g. between people and wildlife, between protected and unprotected areas and between different groups of people are a common theme throughout the different chapters, this book stresses the commonalities, links and synergies between seemingly disparate disciplines, opinions and conservation approaches. The chapters are divided into clear sections such as the human dimension, the wildlife dimension and human-wildlife interactions, representing a detailed summary of anthropological, ecological and interdisciplinary research projects that have been conducted in the Tarangire Ecosystem over the last decades. Beyond this, work contributes to the debate about land sharing versus land sparing and provides an in-depth case study for understanding the complexities associated with human-wildlife coexistence in one of the few remaining ecosystems that supports migratory populations of large mammals. The topic of this book is particularly relevant for students

scholars and practitioners who are interested in reconciling the needs of human populations with those of the environment in general and large mammal populations in particular **Food Acquisition and Processing in Primates** David J.

Chivers, Bernard A. Wood, Alan Bilsborough, 2013-03-09 This book results from a two day symposium and three day workshop held in Cambridge between March 22nd and March 26th 1982 and sponsored by the Primate Society of Great Britain and the Anatomical Society of Great Britain and Ireland More than 100 primatologists attended the symposium and some 35 were invited to participate in the workshop Speakers from France Germany the Netherlands South Africa and the U S A as well as the U K were invited to contribute In recent years feeling had strengthened that primatologists in Europe did not gather together sufficiently often Distinctive traditions in primatology have developed in Germany France the Netherlands Italy and the U K in particular and it was felt that attempts to blend them could only benefit primatology Furthermore studies of primate ecology behaviour anatomy physiology and evolution have reached the points where further advances depend on interdisciplinary collaboration It was resolved to arrange a regular series of round table discussions on primate biology in Europe at the biennial meeting of the German Society for Anthropology and Human Genetics in Heidelberg in September 1979 where Holger Preuschoft organised sessions on primate ecology and anatomy In June 1980 Michel Sakka convened a most effective working group in Paris to discuss cranial morphology and evolution In 1982 it was the turn of the U K

Ecology of Tropical Savannas B. J. Huntley, B. H. Walker, 2012-12-06 Wildlife Conservation in a Changing Climate
Jedediah F. Brodie, Eric S. Post, Daniel F. Doak, 2013 Bringing together leaders in the fields of climate change ecology wildlife population dynamics and environmental policy this title examines the impacts of climate change on populations of terrestrial vertebrates It also includes chapters that assess the details of climate change ecology

Reviewing **Serengeti Dynamics Of An Ecosystem**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Serengeti Dynamics Of An Ecosystem**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Serengeti Dynamics Of An Ecosystem Introduction

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