

TROPHIC CASCADES

Predators, Prey, and the Changing Dynamics of Nature



Edited by John Terborgh and James A. Estes

Trophic Cascades Predators Prey And The Changing Dynamics Of Nature

Sean B. Carroll



Trophic Cascades Predators Prey And The Changing Dynamics Of Nature:

Trophic Cascades John Terborgh, James A Estes, 2013-06-25 Trophic cascades the top down regulation of ecosystems by predators are an essential aspect of ecosystem function and well being Trophic cascades are often drastically disrupted by human interventions for example when wolves and cougars are removed allowing deer and beaver to become destructive yet have only recently begun to be considered in the development of conservation and management strategies Trophic Cascades is the first comprehensive presentation of the science on this subject It brings together some of the world s leading scientists and researchers to explain the importance of large animals in regulating ecosystems and to relate that scientific knowledge to practical conservation Chapters examine trophic cascades across the world s major biomes including intertidal habitats coastal oceans lakes nearshore ecosystems open oceans tropical forests boreal and temperate ecosystems low arctic scrubland savannas and islands Additional chapters consider aboveground belowground linkages predation and ecosystem processes consumer control by megafauna and fire and alternative states in ecosystems An introductory chapter offers a concise overview of trophic cascades while concluding chapters consider theoretical perspectives and comparative issues Trophic Cascades provides a scientific basis and justification for the idea that large predators and top down forcing must be considered in conservation strategies alongside factors such as habitat preservation and invasive species It is a groundbreaking work for scientists and managers involved with biodiversity conservation and protection **Routledge**

Handbook of Rewilding Sally Hawkins, Ian Convery, Steve Carver, Rene Beyers, 2022-11-30 This handbook provides a comprehensive overview of the history theory and current practices of rewilding Rewilding offers a transformational paradigm shift in conservation thinking and as such is increasingly of interest to academics policymakers and practitioners However as a rapidly emerging area of conservation the term has often been defined and used in a variety of different ways both temporally and spatially There is therefore the need for a comprehensive assessment of this field and the Routledge Handbook of Rewilding fills this lacuna The handbook is organised into four sections to reflect key areas of rewilding theory practice and debate the evolution of rewilding theoretical and practical underpinnings applications and impacts and the ethics and philosophy of rewilding Drawing on a range of international case studies the handbook addresses many of the key issues including land acquisition and longer term planning transitioning from restoration human led nature enabled to rewilding nature led human enabled and the role of political and social transformational change Led by an editorial team who have extensive experience researching and practising rewilding this handbook is essential reading for students academics and practitioners interested in rewilding ecological restoration natural resource management and conservation **The Serengeti Rules** Sean B. Carroll, 2024-08-20 One of today s most accomplished biologists and gifted storytellers reveals the rules that regulate all life How does life work How does nature produce the right numbers of zebras and lions on the African savanna or fish in the ocean How do our bodies produce the right numbers of cells in our organs and bloodstream In The

Serengeti Rules award winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions and shows how their discoveries matter for our health and the health of the planet we depend upon One of the most important revelations about the natural world is that everything is regulated there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar there is a common underlying logic of life Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life saving medicines and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet Bold and inspiring The Serengeti Rules illuminates how life works at vastly different scales Read it and you will never look at the world the same way again

Ecosystem Collapse and Recovery Adrian C. Newton, 2021-04-22 There is a growing concern that many important ecosystems such as coral reefs and tropical rain forests might be at risk of sudden collapse as a result of human disturbance At the same time efforts to support the recovery of degraded ecosystems are increasing through approaches such as ecological restoration and rewilding Given the dependence of human livelihoods on the multiple benefits provided by ecosystems there is an urgent need to understand the situations under which ecosystem collapse can occur and how ecosystem recovery can best be supported To help develop this understanding this volume provides the first scientific account of the ecological mechanisms associated with the collapse of ecosystems and their subsequent recovery After providing an overview of relevant theory the text evaluates these ideas in the light of available empirical evidence by profiling case studies drawn from both contemporary and prehistoric ecosystems Implications for conservation policy and practice are then examined

The Species-Area Relationship Thomas J. Matthews, Kostas A. Triantis, Robert J. Whittaker, 2021-03-18 The species area relationship SAR describes a range of related phenomena that are fundamental to the study of biogeography macroecology and community ecology While the subject of ongoing debate for a century surprisingly no previous book has focused specifically on the SAR This volume addresses this shortfall by providing a synthesis of the development of SAR typologies and theory as well as empirical research and application to biodiversity conservation problems It also includes a compilation of recent advances in SAR research comprising novel SAR related theories and findings from the leading authors in the field The chapters feature specific knowledge relating to terrestrial marine and freshwater realms ensuring a comprehensive volume relevant to a wide range of fields with a mix of review and novel material and with clear recommendations for further research and application

Wildlife Management and Conservation Paul R. Krausman, James W. Cain, 2013-11 The relationship among these three components of wildlife management is explained in chapters written by leading experts and is designed to prepare wildlife students for careers in which they will be charged with maintaining healthy animal populations finding ways to restore depleted populations while

reducing overabundant introduced or pest species and managing relationships among various human stakeholders Topics covered in this book include The definitions of wildlife and management Human dimensions of wildlife management Animal behavior Predator prey relationships Structured decision making Issues of scale in wildlife management Wildlife health Historical context of wildlife management and conservation Hunting and trapping Nongame species Nutrition ecology Water management Climate change Conservation planning **Ecosystem Services: From Biodiversity to Society, Part 1**

,2015-12-01 Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology Each volume publishes topical and important reviews interpreting ecology as widely as in the past to include all material that contributes to our understanding of the field Topics in this invaluable series include the physiology populations and communities of plants and animals as well as landscape and ecosystem ecology Presents the most updated information on the field of ecology publishing topical and important reviews Provides all information that relates to a thorough understanding of the field Includes data on physiology populations and communities of plants and animals New ideas on ES Integrative approach working across a variety of levels of biological organization and spatial and temporal scales Diversity of relevant subjects covered **The Wolf** Ian Convery,Peter Davis,Erwin van van Maanen,Owen Nevin,Karen Lloyd,Erwin Van Maanen,2023 Intro Half Title Page Series Page Title Page Copyright Page Dedication Contents List of Illustrations Preface and Acknowledgments List of Abbreviations Poem Trophic Cascade by Camille T Dungy Foreword Part I Imagining the Wolf 1 The Wolf in the Human Mind Across Space and Time 2 A History of Wolves and People in France 3 Wolves and Other Mammals Hunted in Medieval English Forests 4 Uuluesheued The Historical Significance of the Wolf to Early Indo Europeans 5 Wolves Behind Bars 6 Nazi Werewolves from Outer Space Posthuman Wolf Multiplicities and their Mis appropriations 7 Never Mind the Girl What About the Wolf 8 Whose Wolf Is It Anyway Wolves Wilderness and Belonging 9 Defined as much by their absence as their iconography Reimagining Wolves in Cumbria in Sarah Hall s The Wolf Border 10 A Wasteland Infested by Wolves The Fallacy of Dark Age England Part II What Makes the Wolf 11 The Wolf Pack 12 The Wolf in the Pastoral System of Southern France 13 Contemporary Public Images of the Wolf 14 The Sweetness of Freedom Reflections on the Occasion of the Japanese Wolf 15 Reimagining the Dingo The Australian Wolf or Just a Feral Dog 16 Pushing the Ecological Niche A Sea Wolf Called Takaya 17 Hunger Greedy Appetite The Wolf in Early Modern English Natural History 18 What About the Coywolf 19 Is That a Wolf Politics Science and Red Wolf Identity 20 The Thylacine A Wolf in Name Only Part III Return of the Wolf 21 Landscapes of Coexistence Livestock and Wolves in the Mountains of North Spain 22 The Wolves of Yellowstone Saviours of the Songbird or Pieces of the Puzzle 23 Wolf Beaver Dynamics in the Greater Voyageurs Ecosystem Minnesota A Book About Books, Volume III of III E. H. Bernstein,2024-11-13 This book is Volume III of a three volume book plus accompanying website www.bookaboutbooks.com which adds to subjects already in the book or presents some books and subjects not contained in the books The other volumes are available from the same booksellers as this volume A

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Behavioural Responses to a Changing World Ulrika Candolin,Bob B. M. Wong,2012-06-14 Human induced environmental change currently represents the single greatest threat to global biodiversity Species are typically adapted to the local environmental conditions in which they have evolved Changes in environmental conditions initially influence behaviour which in turn affects species interactions population dynamics evolutionary processes and ultimately biodiversity How animals respond to changed conditions and how this influences population viability is an area of growing research interest Yet despite the vital links between environmental change behaviour and population dynamics surprisingly little has been done to bridge these areas of research Behavioural Responses to a Changing World is the first book of its kind devoted to understanding behavioural responses to environmental change The volume is comprehensive in scope discussing impacts on both the mechanisms underlying behavioural processes as well as the longer term ecological and evolutionary consequences Drawing on international experts from across the globe the book covers topics as diverse as endocrine disruption learning reproduction migration species interactions and evolutionary rescue **Serendipity** James A. Estes,2020-11-10 Many of the findings in the book are classics of ecology A rare and delightful insight into timely science Jane Lubchenco Nature Estes s refreshing narrative deftly weaves rigorous science with personal reflection to create an absorbing and introspective read that is equal parts memoir ecological textbook and motivational guidebook for young ecologists Science To newly minted biologist James Estes the sea otters he was studying in the leafy kelp forests off the coast

of Alaska appeared to have an unbalanced relationship with their greater environment Gorging themselves on the sea urchins that grazed among the kelp these small charismatic mammals seemed to give little back in return But as Estes dug deeper he unearthed a far more complex relationship between the otter and its underwater environment discovering that otters play a critical role in driving positive ecosystem dynamics While teasing out the connective threads he began to question our assumptions about ecological relationships These questions would ultimately inspire a lifelong quest to better understand the surprising complexity of our natural world and the unexpected ways we discover it Serendipity tells the story of James Estes s life as a naturalist and the concepts that have driven his interest in researching the ecological role of top level predators Using the relationships between sea otters kelp and sea urchins as a touchstone Estes retraces his investigations of numerous other species ecosystems and ecological processes in an attempt to discover why ecologists can learn so many details about the systems in which they work and yet understand so little about the broader processes that influence these systems Part memoir part natural history and deeply inquisitive Serendipity will entertain and inform readers as it raises thoughtful questions about our relationship with the natural world

Nature-based Solutions for Sustainable Urban Planning Israa H. Mahmoud,Eugenio Morello,Fabiano Lemes de Oliveira,Davide Geneletti,2022-03-04 Urban greening policies and measures have recently shown a high potential impact on the design and reshaping of the built environment especially in urban regeneration processes This book provides insights on analytical methods planning strategies and shared governance tools for successfully integrating Nature Based Solutions NBS in the urban planning practice The selected contributions present real life application cases in which the mainstreaming of NBS are investigated according to two main challenges the planning and designing of physical and spatial integration of NBS in cities on one side and the implementation of suitable shared governance models and co creation pathways on the other Chapter 5 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Ecology and Evolution of Plant-Herbivore Interactions on Islands Xoaquín Moreira,Luis Abdala-Roberts,2024-01-03 Theory and early empirical work posed that herbivore pressure should be lower on islands than on the mainland owing to lower herbivore abundance and diversity in insular systems Consequently plant taxa found on islands are expected to be less protected or even to have lost their defences completely While early observational studies supported the prediction of lower herbivory and plant defences on islands recent island mainland comparisons have yielded mixed results with some studies finding no differences between islands and mainlands or surprisingly higher herbivory and plant defences on islands In this book the authors aim to reassess current theory and initiate a new generation of work on insularity effects on plant herbivore interactions This book aims to fill the research gaps by integrating the research that has been done to date and by compiling and summarising new research on insularity effects on plant herbivore interactions It provides a critical examination of the patterns in light of classical theory and identifies potential mechanisms or underlying processes It also aims to raise new questions that will

form the basis for a revised and more robust research programme

Trait-Mediated Indirect Interactions Takayuki Ohgushi, Oswald Schmitz, Robert D. Holt, 2012-12-06 There is increasing evidence that the structure and functioning of ecological communities and ecosystems are strongly influenced by flexible traits of individuals within species A deep understanding of how trait flexibility alters direct and indirect species interactions is crucial for addressing key issues in basic and applied ecology This book provides an integrated perspective on the ecological and evolutionary consequences of interactions mediated by flexible species traits across a wide range of systems It is the first volume synthesizing the rapidly expanding research field of trait mediated indirect effects and highlights how the conceptual framework of these effects can aid the understanding of evolutionary processes population dynamics community structure and stability and ecosystem function It not only brings out the importance of this emerging field for basic ecological questions but also explores the implications of trait mediated interactions for the conservation of biodiversity and the response of ecosystems to anthropogenic environmental changes

Religion and Nature Conservation Radhika Borde, Alison A Ormsby, Stephen M Awoyemi, Andrew G Gosler, 2022-10-31 This book presents a broad array of global case studies exploring the interaction between religion and the conservation of nature from the viewpoints of the religious practitioners themselves With conservation and religion often being championed as allies in the quest for a sustainable world where humans and nature flourish this book provides a much needed compendium of detailed examples where religion and conservation science have been brought together Case studies cover a variety of religions faiths and practices including traditional Indigenous Buddhism Christianity Hinduism Islam Jainism Judaism Shinto and Zoroastrianism Importantly this volume gives voice to the religious practitioners and adherents themselves Beyond an exercise in anthropology ethnobiology and comparative religion the book is an applied work seeking the answer to how in a world of nearly eight billion people we might help our own species to prevent the extinction of life This book will be of great interest to students and scholars of nature conservation environment and religion cultural geography and ethnobiology as well as practitioners and professionals working in conservation

We Alone David Western, 2020-11-24 A thoughtful exploration of how humans have endangered the Earth but can pull it back from the brink as told by a renowned conservationist This personal and thoughtful book by renowned Kenya conservationist David Western traces our global conquest from Maasai herders battling droughts in Africa to the technological frontiers of California Western draws on a half century of research in the savannas and his own life's journey to argue that conservation is not a modern invention The success of all societies past and present lies in conservation practices breaking biological barriers and learning to live in large cooperative groups able to sustain a healthy environment Our ecological emancipation from nature enabled us to expand our horizons from conserving food and water for survival to saving whales elephants and our cultural heritage In the Anthropocene our scientific knowledge and modern sensibilities offer hope for combating global warming and creating a planet able to sustain the wealth of life but only if we use our unique cultural

capacity of cooperation to plan our future *A Place Like No Other* Anthony R. E. Sinclair, 2025-08-19 From famed zoologist Anthony Sinclair an account of his decades long quest to understand one of Earth's most spectacular ecosystems With its rich biodiversity astounding wildlife and breathtaking animal migrations Serengeti is like no other ecosystem on the planet *A Place like No Other* is Anthony Sinclair's firsthand account of how he and other scientists discovered the biological principles that regulate life in Serengeti and how they rule all of the natural world When Sinclair first began studying this spectacular ecosystem in 1965 a host of questions confronted him What environmental features make its annual migration possible What determines the size of animal populations and the stunning diversity of species What factors enable Serengeti to endure over time In the five decades that followed Sinclair and others sought answers What they learned is that seven principles of regulation govern all natural processes in the Serengeti ecosystem Sinclair shows how these principles can help us to understand and overcome the challenges facing Serengeti today and how they can be used to repair damaged habitats throughout the world Blending vivid storytelling with invaluable scientific insights from Sinclair's pioneering fieldwork in Africa *A Place like No Other* reveals how Serengeti holds timely lessons for the restoration and conservation of our vital ecosystems *Introduction to Population Ecology* Larry L. Rockwood, 2015-03-23 *Introduction to Population Ecology* 2nd Edition is a comprehensive textbook covering all aspects of population ecology It uses a wide variety of field and laboratory examples botanical to zoological from the tropics to the tundra to illustrate the fundamental laws of population ecology Controversies in population ecology are brought fully up to date in this edition with many brand new and revised examples and data Each chapter provides an overview of how population theory has developed followed by descriptions of laboratory and field studies that have been inspired by the theory Topics explored include single species population growth and self limitation life histories metapopulations and a wide range of interspecific interactions including competition mutualism parasite host predator prey and plant herbivore An additional final chapter new for the second edition considers multi trophic and other complex interactions among species Throughout the book the mathematics involved is explained with a step by step approach and graphs and other visual aids are used to present a clear illustration of how the models work Such features make this an accessible introduction to population ecology essential reading for undergraduate and graduate students taking courses in population ecology applied ecology conservation ecology and conservation biology including those with little mathematical experience *Restoring the Balance* John A. Vucetich, 2021-10-12 Wolves on a wilderness island illuminate lessons on the environment extinction and life For more than a quarter century celebrated biologist John Vucetich has studied the wolves and the moose that sustain them of the boreal forest of Isle Royale National Park an island in the northwest corner of Lake Superior During this time he has witnessed both the near extinction of the local wolf population driven largely by climate change and the intensely debated relocation of other wolves to the island in an effort to stabilize and maintain Isle Royale's ecosystem health In *Restoring the Balance* Vucetich combines environmental philosophy with field

notes chronicling his day to day experience as a scientist Examining the fate of wolves in the wild he shares lessons from these wolves and explains their impact on humanity s fundamental responsibilities to the natural world Vucetich s engaging narrative and unique clear eyed perspective provide an accessible course in wolf biology and behavioral ecology He tackles profound unresolved questions that will shape our future understanding of what it means to be good to life on earth Are humans the only persons to inhabit Earth or do we share the planet with uncounted nonhuman persons What does a healthy relationship with the natural world look like Should we intervene in nature s course in order to care for it Touching on the triumph and tragedy of how wolves kill moose to the Shakespearian drama of wolves social lives Vucetich comments on ravens mice winter ticks and even a life changing encounter he shared with a toad Vucetich produces exquisite insight by masterfully connecting his observations to a far reaching history of ideas about the environment Combining natural history and memoir with fascinating commentary on humanity s relationship with nature Restoring the Balance evokes our connections with wolves as fellow apex predators demonstrating how our shifting views on nature have implications for both their survival and ours This book will be treasured by any thoughtful reader looking to deepen their relationship with nature and learn about the wolves of Isle Royale along the way **Tropical Forests** Padmini Sudarshana, Madhugiri

Nageswara-Rao, Jaya Soneji, 2012-03-14 The astounding richness and biodiversity of tropical forests is rapidly dwindling This has severely altered the vital biogeochemical cycles of carbon phosphorus nitrogen etc and has led to the change in global climate and pristine natural ecosystems In this elegant book we have defined Tropical Forests broadly into five different themes 1 tropical forest structure synergy synthesis 2 tropical forest fragmentation 3 impact of anthropogenic pressure 4 Geographic Information System and remote sensing and 5 tropical forest protection and process The cutting edge synthesis detailed current reviews several original data rich case studies recent experiments experiences from leading scientists across the world are presented as unique chapters Though the chapters differ noticeably in the geographic focus diverse ecosystems time and approach they share these five important themes and help in understanding educating and creating awareness on the role of Tropical Forests for the very survival of mankind climate change and the diversity of biota across the globe This book will be of great use to the students scientists ecologists population and conservation biologists and forest managers across the globe The publication of this book was supported by the Secretariat of the Convention on Biological Diversity United Nations

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Trophic Cascades Predators Prey And The Changing Dynamics Of Nature Introduction

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