# 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

Thomas J. Matthews, Kostas A. Triantis, Robert J. Whittaker

#### **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 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 Unluesheued 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 A Book About Books, Volume III of III E. H. Bernstein, 2024-11-13 This book is Volume III of a three volume Minnesota 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

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