

TROPHIC CASCADES

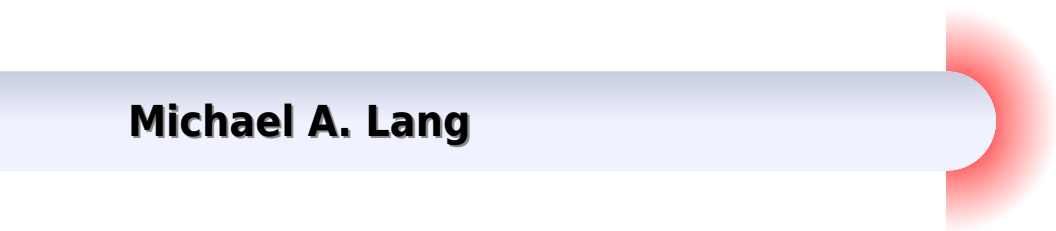
Predators, Prey, and the Changing Dynamics of Nature



Edited by John Terborgh and James A. Estes

Trophic Cascades Predators Prey And The Changing Dynamics Of Nature

Michael A. Lang



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

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

Encyclopedia of Biodiversity, 2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the

evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms **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 **Serendipity** James A.

Estes,2016-05-17 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 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 **Canadian Journal of Fisheries and Aquatic Sciences** ,2013

Generality and Consequences of Keystone Predation in Rocky Intertidal Habitats of Central California Dawn M.

Hart,2010 **Research and Discoveries** Michael A. Lang,2013 **Understanding Relationships Between Biodiversity, Carbon, Forests and People** John A. Parrotta,Christoph Wildburger,Stephanie Mansourian,2012 **The Forests of the Congo Basin** Carlos de Wasseige,2012 The 2010 State of the Forest report SOF benefited from financial support from the European Union the United States Germany France and UNESCO It represents the collaborative effort of over 100 individuals from a diversity of institutions and the forestry administrations of the Central African countries The SOF process began with the selection and definition of indicators relevant to monitoring the state of forests in Central Africa The indicators are structured around three thematic areas i forest cover ii management of production forests and iii conservation and biodiversity They are presented in a hierarchical structure at the regional national and management unit i e logging concessions and protected areas levels The indicators were vetted by a representative panel of stakeholders of forest management in Central Africa The indicators are used to guide an annual data collection process carried out between April

and August by national groups of four to ten individuals working within the forestry administrations The data reported on in the 2010 SOF were primarily collected in 2009 and 2010 Results were validated in national workshops attended by government officials as well as representatives of environmental NGOs the private sector and development projects The data provided an important basis for the authors of the 11 chapters of the 2010 SOF which were under the coordination of a scientific committee of international renown A final workshop was held 29-30 March 2011 in Douala to review a draft report Following amendments based on comments from a wide audience of experts the final layout was completed

Marine Ecosystem-based Management Michael J. Fogarty, James J. McCarthy, 2014 Any viable strategy for sustaining the world's oceans must reflect the relationships among all ecosystem components human and nonhuman species included Marine Ecosystem Based Management is a state of the art synopsis of the conservation approaches that are currently being translated from theory to action on a global scale

Wildlife Research, 2014 *Species Interactions Affecting Corals and Recruitment on a Protected, High-latitude Reef* Wendy A. Cover, 2011 **Science** John Michels (Journalist), 2011 *Marine & Freshwater Research*, 2014 *Acta Theriologica*, 2014 **Serendipity** James A. Estes, 2016-05-17 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

The Writers Directory, 2013 **Annual Review of Ecology, Evolution, and Systematics**, 2008

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1919 ernest rutherford bombarded nitrogen with alpha particles and identified the ejected lighter particles as

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