



Natural Ecosystems

McCartney, M., Cai, X., Smakhtin, V.



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Capitalizing on Nature Edward B. Barbier, 2011-09-08 The basic unit of nature the ecosystem is a special form of wealth which we can think of as a stock of natural capital However perhaps because this capital is free we have tended to view it as limitless abundant and always available for our use exploitation and conversion Capitalizing on Nature shows how modeling ecosystems as natural capital can help us to analyze the economic behavior that has led to the overuse of so much ecological wealth It explains how this concept of ecosystem as natural capital sheds light on a number of important issues including landscape conversion ecological restoration ecosystem resilience and collapse spatial benefits and payments for ecosystem services The book concludes by focusing on major policy challenges that need to be overcome in order to avert the worsening problem of ecological scarcity and how we can fund novel financing mechanisms for global conservation

Nature's Services Gretchen Cara Daily, 2012-09-26 Life itself as well as the entire human economy depends on goods and services provided by earth's natural systems The processes of cleansing recycling and renewal along with goods such as seafood forage and timber are worth many trillions of dollars annually and nothing could live without them Yet growing human impacts on the environment are profoundly disrupting the functioning of natural systems and imperiling the delivery of these services Nature's Services brings together world renowned scientists from a variety of disciplines to examine the character and value of ecosystem services the damage that has been done to them and the consequent implications for human society Contributors including Paul R Ehrlich Donald Kennedy Pamela A Matson Robert Costanza Gary Paul Nabhan Jane Lubchenco Sandra Postel and Norman Myers present a detailed synthesis of our current understanding of a suite of ecosystem services and a preliminary assessment of their economic value Chapters consider major services including climate regulation soil fertility pollination and pest control philosophical and economic issues of valuation case studies of specific ecosystems and services implication of recent findings and steps that must be taken to address the most pressing concerns Nature's Services represents one of the first efforts by scientists to provide an overview of the many benefits and services that nature offers to people and the extent to which we are all vitally dependent on those services The book enhances our understanding of the value of the natural systems that surround us and can play an essential role in encouraging greater efforts to protect the earth's basic life support systems before it is too late [Multiple Stable States in Natural Ecosystems](#)

Peter Petraitis, 2013-04-25 One of the most interesting and vexing problems in ecology is how distinctly different communities of plants and animals can occur in the same ecosystem The theory of these systems known as multiple stable states is well understood but whether multiple stable states actually exist in nature has remained a hotly debated subject Multiple Stable States in Natural Ecosystems provides a broad and synthetic critique of recent advances in theory and new experimental evidence Modern models of systems with multiple stable states are placed in historical context Current theories are covered in a rigorous fashion with the specific goal of identifying testable predictions about multiple stable states The

book provides a more synthetic more critical and broader analysis of multiple stable states in natural ecosystems than any previous review By making the theory more transparent and the analysis of the evidence more comparative the book broadens the discussion about multiple stable states leading to a more general consideration of the interplay between theory and experiment in community ecology and environmental management This accessible research monograph will be suitable for graduate students taking courses in community ecology theoretical ecology and restoration ecology It will also be a valuable reference for professional ecologists and environmental managers requiring a concise overview of the topic

The Impact of Nitrogen Deposition on Natural and Semi-Natural Ecosystems S.J. Langan, 2014-11-14 This book provides an up to date synthesis of the understanding of the interaction between the emission of nitrogen its deposition and impact on the most important components of natural and semi natural ecosystems The work consists of contributions from internationally renowned research scientists Individual chapters deal with the factors and processes related to nitrogen deposition and soils non forest vegetation communities forest ecosystems and surface waters The assessment of these impacts is discussed in terms of setting critical loads The book is aimed at researchers advanced course students and policy makers advisors involved with aspects of the impact of air pollution

Applications of Seasonal Climate Forecasting in Agricultural and Natural Ecosystems Graeme L. Hammer, Neville Nicholls, Christopher Mitchell, 2013-03-09 Climate variability has major impacts in many parts of the world including Australia Developments in understanding of the El Niño Southern Oscillation Phenomenon have introduced some skill in seasonal to inter annual climate forecasting Can this skill be harnessed to advantage Or do we just continue to observe these impacts How does a decision maker managing an agricultural or natural ecosystem modify decisions in response to a skillful but imprecise seasonal climate forecast Using Australian experience as a basis this book focuses on these questions in pursuing means to better manage climate risks The state of the science in climate forecasting is reviewed before considering detailed examples of applications to farm scale agricultural decisions such as management of cropping and grazing systems regional and national scale agricultural decisions such as commodity trading and government policy and natural systems such as water resources pests and diseases and natural fauna Many of the examples highlight the participatory and inter disciplinary approach required among decision makers resource systems scientists analysts and climate scientists to bring about the effective applications The experiences discussed provide valuable insights beyond the geographical and disciplinary focus of this book The book is ideally suited to professionals and postgraduate students in ecology agricultural climatology environmental planning and climate science

Global Assessment of Acidification and Eutrophication of Natural Ecosystems Lex Bouwman, United Nations Environment Programme, 1999 This report is a review of studies in six countries commissioned under UNEP's Capacity Building for Integrating Environmental Considerations into Development Planning and Decision making programme These projects are the first of their kind as they were entirely conceived designed and conducted by teams of national experts in their own

country Forward page vii **Evaluating the flow regulating functions of natural ecosystems in the Zambezi River Basin** McCartney, M.,Cai, X.,Smakhtin, V.,2013 By affecting evapotranspiration and influencing how water is routed and stored in a basin forests wetlands and floodplains play a crucial role in the hydrological cycle Although they are widely attributed a major role in regulating flows i e both attenuating floods and maintaining flow during dry periods these services are rarely factored into the planning and management of water resources One reason for the failure to include them is lack of understanding Very often the extent to which natural regulating functions really occur is unclear Against this background this report describes a simple pragmatic approach for quantifying the flow regulating functions of natural ecosystems The method has been applied at 14 locations in the Zambezi River Basin **Yeasts in Natural Ecosystems: Diversity** Pietro Buzzini,Marc-André Lachance,Andrey Yurkov,2017-10-05 This book focuses on the diversity of yeasts in aquatic and terrestrial ecosystems including the association of yeasts with insects invertebrate and vertebrate animals It offers an overview of the knowledge accumulated in the course of more than 60 years of research and is closely connected with the volume *Yeasts in Natural Ecosystems Ecology* by the same editors In view of the rapid decline of many natural habitats due to anthropogenic activities and climate change the need to study biodiversity is pressing Rising temperatures threaten species inhabiting cold and aquatic environments and species in terrestrial ecosystems are endangered by habitat fragmentation or loss Most of our knowledge of intrinsic properties autoecology of yeasts reported throughout this book is derived from laboratory experiments with pure cultures Accordingly the importance of culture collections for ecological studies is highlighted by presenting an overview of worldwide available yeast strains and their origins All of the chapters were written by leading international yeast research experts and will appeal to researchers and advanced students in the field of microbial diversity **Understanding Urban Ecosystems** Charles H. Nilon,2003 Nowhere is the challenge for ecological understanding greater than in cities This book brings together the biological physical and social dimensions of urban ecosystem research to show how an understanding of urban ecosystems is vital for urban dwellers to grasp basic ecological science Software Ecosystems Slinger Jansen,Michael A. Cusumano,Sjaak Brinkkemper,2013-01-01 This book describes the state of the art of software ecosystems It constitutes a fundamental step towards an empirically based nuanced understanding of the implications for management governance and control of software ecosystems This is the first book of its kind dedicated to this emerging field and offers guidelines on how to analyze software ecosystems methods for managing and growing methods on transitioning from a closed software organization to an open one and instruments for dealing with open source licensing issues product management and app stores It is unique in bringing together industry experiences academic views and tackling challenges such as the definition of fundamental concepts of software ecosystems describing those forces that influence its development and lifecycles and the provision of methods for the governance of software ecosystems This book is an essential starting point for software industry researchers product managers and entrepreneurs

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