

Biological Invasions



Biological Invasions

Andrew N. Cohen



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Biological Invasions M. Williamson, 1996 Some biological invasions have marked ecological and economic effects But most fail and most of those that succeed have small effects This volume should be of interest to plant ecologists plant conservationists population biologists agriculturalists *Encyclopedia of Biological Invasions* Daniel Simberloff, Marcel Rejmanek, 2011-01-02 Addresses all aspects of this subject at a global level including invasions by animals plants fungi and bacteria in succinct alphabetically arranged articles Featuring many cross references suggestions for further reading illustrations an appendix of the world s worst 100 invasive species a glossary and more From the publisher **Biological Invasions in South Africa** Brian W. van Wilgen, John Measey, David M. Richardson, John R. Wilson, Tsungai A. Zengeya, 2020-03-10 This open access volume presents a comprehensive account of all aspects of biological invasions in South Africa where research has been conducted over more than three decades and where bold initiatives have been implemented in attempts to control invasions and to reduce their ecological economic and social effects It covers a broad range of themes including history policy development and implementation the status of invasions of animals and plants in terrestrial marine and freshwater environments the development of a robust ecological theory around biological invasions the effectiveness of management interventions and scenarios for the future The South African situation stands out because of the remarkable diversity of the country and the wide range of problems encountered in its varied ecosystems which has resulted in a disproportionate investment into both research and management The South African experience holds many lessons for other parts of the world and this book should be of immense value to researchers students managers and policy makers who deal with biological invasions and ecosystem management and conservation in most other regions **Biological Invasions and Global Insect Decline** Jonatan Rodríguez, Petr Pyšek, Ana Novoa, 2023-09-13 *Biological Invasions and Global Insect Decline* offers the most updated knowledge on how invasive alien species affect insect diversity worldwide The book provides ongoing research and the most relevant information covering the main aspects of the impact of biological invasions as well as future insights on mitigation and consequences It discusses how the introduction of all kinds of organisms from bacteria and plants to vertebrates affect current declines in insect diversity The latter portion of the book delves into existent and future monitoring and management programs including citizen science and regenerative ecology as socio ecological solutions to combat these threats Written and edited by international experts on invasion ecology and insect conservation this book explores the role of global change and the introduction of invasive species in altering the structure of habitats and how this induces a global insect decline This will be a valuable resource for entomologists invasion biologists and other researchers in biodiversity conservation as well as practitioners and stakeholders concerned about problematic invasive alien species and insect population decline Offers a concise vision of one of the main causes of insect extinctions in the Anthropocene Discusses community ecology insect conservation species interactions restoration ecology Led by a team of editors whose

expertise includes invasive alien species invasion ecology insect species diversity and species conservation

Biological Invasions James A. Drake, 1989-09-04 The results of a probe initiated by the Scientific Committee on Problems of the Environment SCOPE into the ecological implications of invasions of animals plants and micro organisms focusing primarily on those species which have been successful invaders of non agricultural regions

Biological Invasions in Changing Ecosystems João Canning-Clode, 2016-01-15 When organisms are deliberately or accidentally introduced into a new ecosystem a biological invasion may take place These so called invasive species may establish spread and ecologically alter the invaded community Biological invasions by animals plants pathogens or vectors are one of the greatest environmental and economic threats and along with habitat destruction a leading cause of global biodiversity loss In this book more than 50 worldwide invasion scientists cover our current understanding of biological invasions its impacts patterns and mechanisms in both aquatic and terrestrial systems

Biological Invasions Wolfgang Nentwig, 2007-02-13 This new volume on Biological Invasions deals with both plants and animals differing from previous books by extending from the level of individual species to an ecosystem and global level Topics of highest societal relevance such as the impact of genetically modified organisms are interlinked with more conventional ecological aspects including biodiversity The combination of these approaches is new and makes compelling reading for researchers and environmentalists

The Ecology of Biological Invasions, 1987

Causes and Consequences of Biological Invasions Andrew Suarez, 2000

Impact of Biological Invasions on Ecosystem Services Montserrat Vilà, Philip E. Hulme, 2017-02-15 The book presents an analysis of the ecological economic and social threats posed by the introduction and spread of non native species It provides a comprehensive description of impacts of non native species from all five kingdoms of life across all ecosystems of the world New insights into the impacts arising from biological invasions are generated through taking an ecosystem services perspective This work highlights that management of biological invasions is needed not only to sustain biodiversity and the environment but also to safeguard productive sectors such as agriculture forestry and fisheries as well as to preserve human health and well being

The Ecology and Management of Biological Invasions in Southern Africa I. A. W. Macdonald, Frederick J. Kruger, Antony A. Ferrar, 1986 Based on a symposium held by the South African National Programme for Ecosystem Research this book has been compiled in response to the increasing realization worldwide but notably in South Africa that introduced species pose a true ecological and economic threat to agricultural and conservation activities The authors review current knowledge and management practice in response to the invasive spread of introduced species in South Africa and focus on the study of species which have invaded non agricultural regions thereby disrupting natural ecosystem processes The ecological processes involved are described as are basic principles of management of invasive species in protected ecosystems and grazing lands Using case studies to demonstrate timing location rate extent of spread mode and motivation of introduction impact and control strategies for a variety of South African species this unique work offers helpful guidelines for

management and ecological understanding that can be applied internationally

Biological Invasions of Ecosystem by Pests and Beneficial Organisms Eizi Yano, E. Yano, 1999 *Processes and Patterns Underlying Biological Invasions* Jacob Nathaniel Barney, 2007 Biological Invasions in California Wetlands Tom Dudley, 1995 *Biological Invasions in the San Francisco Estuary* Andrew N. Cohen, 1996 **Invasion Biology** Mark A. Davis, 2009-01-29 With the exception of climate change biological invasions have probably received more attention during the past ten years than any other ecological topic Yet this is the first synthetic single authored overview of the field since Williamson's 1996 book Written fifty years after the publication of Elton's pioneering monograph on the subject *Invasion Biology* provides a comprehensive and up to date review of the science of biological invasions while also offering new insights and perspectives relating to the processes of introduction establishment and spread The book connects science with application by describing the health economic and ecological impacts of invasive species as well as the variety of management strategies developed to mitigate harmful impacts The author critically evaluates the approaches findings and controversies that have characterized invasion biology in recent years and suggests a variety of future research directions Carefully balanced to avoid distinct taxonomic ecosystem and geographic both investigator and species biases the book addresses a wide range of invasive species including protists invertebrates vertebrates fungi and plants which have been studied in marine freshwater and terrestrial environments throughout the world by investigators equally diverse in their origins This accessible and thought provoking text will be of particular interest to graduate level students and established researchers in the fields of invasion biology community ecology conservation biology and restoration ecology It will also be of value and use to land managers policy makers and other professionals charged with controlling the negative impacts associated with recently arrived species Biological Invasions in Marine Ecosystems Gil Rilov, Jeffrey A. Crooks, 2008-11-12 Biological invasions are considered to be one of the greatest threats to the integrity of most ecosystems on earth This volume explores the current state of marine bioinvasions which have been growing at an exponential rate over recent decades Focusing on the ecological aspects of biological invasions it elucidates the different stages of an invasion process starting with uptake and transport through inoculation establishment and finally integration into new ecosystems Basic ecological concepts all in the context of bioinvasions are covered such as propagule pressure species interactions phenotypic plasticity and the importance of biodiversity The authors approach bioinvasions as hazards to the integrity of natural communities but also as a tool for better understanding fundamental ecological processes Important aspects of managing marine bioinvasions are also discussed as are many informative case studies from around the world **Quantitative Aspects of the Ecology of Biological Invasions** Royal Society (Great Britain). Discussion Meeting, H. L. Kornberg, 1987 Ecology of Biological Invasions of North America and Hawaii Harold A. Mooney, James A. Drake, 1989-11-13 The diversity of the earth's climates superimposed upon a complex configuration of physical features has provided the conditions for the evolution of a remarkable array of living things which are linked

together into complex ecosystems. The kinds of organisms comprising the ecosystems of the world and the nature of their interactions have constantly changed through time due to coevolutionary interactions along with the effects of a continually changing physical environment. In recent evolutionary time there has been a dramatic and ever accelerating rate of change in the configuration of these ecosystems because of the increasing influence of human beings. These changes range from subtle modifications caused by anthropogenically induced alterations in atmospheric properties to the total destruction of ecosystems. Many of these modifications have provided the fuel, food, and fiber which have allowed the expansion of human populations. Unfortunately, there have been many unanticipated changes which accompanied these modifications which have had effects detrimental to human welfare including substantial changes in water and air quality. For example, the use of high sulfur coal to produce energy in parts of North America is altering the properties of freshwater lakes and forests because of acidification.

Assessment of the Colonization Potential of Introduced Species During Biological Invasions Robert Charles Venette, 1997

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