

ECOLOGY AND RESTORATION
OF NORTHERN CALIFORNIA
COASTAL DUNES



Andrea J. Pickart and John O. Sawyer

CALIFORNIA NATIVE PLANT SOCIETY

ECOLOGY AND RESTORATION OF
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Ecology And Restoration Of Northern California Coastal Dunes

Bill Devall



Ecology And Restoration Of Northern California Coastal Dunes:

Ecology and Restoration of Northern California Coastal Dunes Andrea J. Pickart, John Orvel Sawyer, 1998 Restoration of Coastal Dunes Luisa M Martínez, Juan B. Gallego-Fernández, Patrick A. Hesp, 2013-01-30 The continuously growing human population along the world's coasts will exacerbate the impact of human activities on all coastal environments. Restoration activities will therefore become increasingly important. In particular, sandy shores and coastal dunes will require significant restoration efforts because they are preferred sites for human settlement, industrial and urban development, and tourism. With this book, experts in the field present a comprehensive review of restoration studies and activities where successful and failed studies or approaches from around the world are contrasted and compared. A major asset the book provides is a compendium of studies showing that coastal dune restoration has many definitions and thus leads to many different actions. This volume addresses those with an interest in conservation ecology and biology, coastal dune dynamics and geomorphology, and coastal management who are seeking information on the different strategies for coastal dune restoration applied in different regions of the world. Finally, it will be a valuable resource for coastal scientists and planners as well as for local and state officials, residents of coastal communities, environmental advocates, and developers. *Coastal Dunes* M. L. Martínez, Norbert P. Psuty, 2007-09-14 Coastal dunes occur in almost every latitude from tropical to polar and have been substantially altered by human activities. Many are already severely and irreversibly degraded. Although these ecosystems have been studied for a long time as early as 1835, there has been a strong emphasis on the mid-latitude dune systems and a lack of attention given to the tropics where unfortunately much of the modern exploitation and coastal development for tourism is occurring. This book brings together coastal dune specialists from tropical and temperate latitudes which together cover a wide set of topics including geomorphology, community dynamics, ecophysiology, biotic interactions, and environmental problems and conservation. A major product of this book is a set of recommendations for future research identifying relevant topics where detailed knowledge is still lacking. It also identifies management tools that will promote and maintain the rich diversity of the dune environments in the context of continuing coastal development. Ecosystems of California Harold Mooney, Erika Zavaleta, 2016-01-19 This long anticipated reference and sourcebook for California's remarkable ecological abundance provides an integrated assessment of each major ecosystem type, its distribution, structure, function, and management. A comprehensive synthesis of our knowledge about this biologically diverse state, *Ecosystems of California* covers the state from oceans to mountaintops using multiple lenses: past and present flora and fauna, aquatic and terrestrial, natural and managed. Each chapter evaluates natural processes for a specific ecosystem, describes drivers of change, and discusses how that ecosystem may be altered in the future. This book also explores the drivers of California's ecological patterns and the history of the state's various ecosystems, outlining how the challenges of climate change and invasive species and opportunities for regulation and stewardship could potentially affect the state's ecosystems. The text explicitly incorporates

both human impacts and conservation and restoration efforts and shows how ecosystems support human well being Edited by two esteemed ecosystem ecologists and with overviews by leading experts on each ecosystem this definitive work will be indispensable for natural resource management and conservation professionals as well as for undergraduate or graduate students of California's environment and curious naturalists

Invasive Plants of California's Wildlands Carla C. Bossard, John M. Randall, Marc C. Hoshovsky, 2000 Invasive nonnative plants threaten native species with habitat loss displacement and severe population declines thus seriously reducing biodiversity Invasive Plants of California's Wildlands is a tremendous source for land managers and others who are interested in protecting the rich natural heritage of California and surrounding states John C. Sawhill President and CEO The Nature Conservancy *Terrestrial Vegetation of California, 3rd Edition* Michael Barbour, Todd Keeler-Wolf, Allan A. Schoenherr, 2007-07-17 This completely new edition of *Terrestrial Vegetation of California* clearly documents the extraordinary complexity and richness of the plant communities and of the state and the forces that shape them This volume is a storehouse of information of value to anyone concerned with meeting the challenge of understanding managing or conserving these unique plant communities under the growing threats of climate change biological invasions and development Harold Mooney Professor of Environmental Biology Stanford University The plants of California are under threat like never before Traditional pressures of development and invasive species have been joined by a newly recognized threat human caused climate change It is essential that we thoroughly understand current plant community dynamics in order to have a hope of conserving them This book represents an important well timed advance in knowledge of the vegetation of this diverse state and is an essential resource for professionals students and the general public alike Brent Mishler Director of the University Jepson Herbaria and Professor of Integrative Biology University of California Berkeley *Seven Coastal Plants and the Myrtle's Silverspot Butterfly*, 1998 *Northwest California* John O. Sawyer, 2006-08-15 Annotation Northwestern California is one of the most fascinating and biologically diverse regions of North America This summary of a complex past brings together geological botanical and zoological information to create a single natural history of one of the last unspoiled parts of California and the Pacific Northwest *Sand Dune Conservation, Management and Restoration* J. Patrick Doody, 2012-09-17 This book deals with the development of temperate coastal sand dunes and the way these have been influenced by human activity The different states in which the habitat exists both for the beach foredune and inland dune are reviewed against the pressures exerted upon them Options for management are considered and the likely consequences of taking a particular course of action highlighted These options include traditional approaches to the conservation and management of wildlife and landscapes as well as habitat restoration The way the value of the areas changes under different management regimes is considered mainly from an environmental perspective Consideration is given to new approaches to management and restoration including adopting a more dynamic approach Audience This book will be of interest to academics students and professionals concerned with policy formulation and or

actively managing coastal areas Living Deep Ecology Bill Devall, 2020-11-24 *Living Deep Ecology A Bioregional Journey* is an exploration of our evolving relationship with a specific bioregion It is set in Humboldt County in northwestern California in the Klamath Siskiyou bioregion By focusing on a specific bioregion and reflecting on anthropogenic changes in this bioregion over three decades Bill Devall engages the reader in asking deeper questions about the meaning we find in Nature He addresses questions such as how do we relate the facts and theories presented by science with our feelings our intimacy and our sense of Place as we dwell in a specific bioregion This book engages the reader to consider our place in Nature Devall approaches the bioregion not from the perspective of agencies and government but from the perspective of the landscape itself **The Ecology and Control of European Beachgrass (*Ammophila Arenaria*)** Rachel Miranda

Aptekar, 1999 **Invasive Plant Species of the World, 2nd Edition** Ewald Weber, 2017-04-13 Since the publication of the first edition of this book in 2003 the status of many important invasive plants around the world has changed dramatically Species have extended their ranges new literature has been accumulated and control methods have been improved Research on some plant invaders has also focused on the species ecology and impacts confirming that invasive plants continue to pose serious threats to species and ecosystems Given their range expansions and introduction via international trade these problems will only become more serious in the future Including colour images of each species this up to date reference guide on the most important plant invaders is an invaluable tool for both researchers and policy makers **A Natural History of**

California Allan A. Schoenherr, 2017-07-03 In this comprehensive and abundantly illustrated book Allan A Schoenherr describes the natural history of California a state with a greater range of landforms a greater variety of habitats and more kinds of plants and animals than any area of equivalent size in all of North America *A Natural History of California* focuses on each distinctive region addressing its climate rocks soil plants and animals The second edition of this classic work features updated species names and taxa new details about parks reclassified by federal and state agencies new stories about modern human and animal interaction and a new epilogue on the impacts of climate change *Salinas River National Wildlife Refuge*, 2002

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 **California Grasslands** Mark R. Stromberg, Jeffrey D. Corbin, Carla

D'Antonio, 2007-12-03 This highly synthetic and scholarly work brings together new and important scientific contributions by leading experts on a rich diversity of topics concerning the history ecology and conservation of California's endangered grasslands The editors and authors have succeeded admirably in drawing from a great wealth of recent research to produce a widely accessible and compelling state of the art treatment of this fascinating subject Anyone interested in Californian

biodiversity or grassland ecosystems in general will find this book to be an invaluable resource and a major inspiration for further research management and restoration efforts Bruce G Baldwin W L Jepson Professor and Curator UC Berkeley

Grasses and grasslands are among the most important elements of the California landscape This is their book embodying the kind of integrated view needed for all ecological communities in California Approaches ranging across an incredibly broad spectrum paleontology and human history basic science and practical management techniques systematics community ecology physiology and genetics physical factors such as water soil nutrients atmospheric and fire biological factors such as competition symbiosis and grazing are nicely tied together due to careful editorial work This is an indispensable reference for everyone interested in the California environment Brent Mishler Director of the University Jepson Herbaria and Professor of Integrative Biology UC Berkeley The structure and function of California grasslands have intrigued ecologists for decades The editors of this volume have assembled a comprehensive set of reviews by a group of outstanding authors on the natural history structure management and restoration of this economically and ecologically important ecosystem Scott L Collins Professor of Biology University of New Mexico

Invasive Plants: Ecological and Agricultural Aspects S. Inderjit, 2006-01-16 Invasive plants have an impact on global biodiversity and ecosystem function and their management is a complex task The aim of this book is to discuss fundamental questions of invasion ecology such as why particular communities become more invulnerable than others what the mechanisms of exclusion of native species by invaders are and whether invasion can be predicted In addition agricultural practices influencing invasion the environmental and economic costs of invasion as well as possible management strategies are discussed Readers will get a unique perspective on invasion ecology through employing general principles of ecology to plant invasions

Proceedings RMRS. ,2000 **Wilderness Science in a Time of Change Conference ,2000** **Wallowa-Whitman National Forest (N.F.), Invasive Plant Treatment Project ,2010**

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