

Major plant communities of warm North American deserts

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Abstract. A syntaxonomic study of the major plant communities in neotropical North American deserts (Sonoran, Mojave and Baja California Deserts) is presented. The field method of the Braun-Blanquet approach was combined with a numerical syntaxonomical analysis (cluster analysis and principal coordinate ordination). 21 associations are described for the first time: *Ambrosia chamaedifoliae-Larrea tridentatae*, *Acamptopappus sphaerocephali-Larrea tridentatae*, *Hymenoclea monogyne-Baccharidietum glutinosae*, *Bergencroton emoryi-Agave tumida*, *Bursera hindsiana-microphyllae*, *Cercidia microphylli-Casahuateum giganteae*, *Bursera microphyllae-Cyrnocarpum edulis*, *Hymenoclea salicifolia-Dalectum spinosae*, *Echinocereus engelmannii-Agave tumida*, *Euphorbia californicae-Fouquierietum digitati*, *Fouquieria splendens-Larrea tridentatae*, *Agave cerulatae-Ibidium columnaris*, *Maugetia macropterae-Lycium candidae*, *Meynetium phyllanthoides*, *Opuntia basilaris-Larrea tridentatae*, *Prosopidietum torreyanae*, *Rosa minutifoliae-Arcuateum parryi*, *Opuntia topanae-Agave tumida*, *Tidestromia oblongifoliae-Atriplex hymenelytrae*, *Eurotia lanata-Larrea tridentatae* and *Yucca valida-Fouquierietum digitati*. Some associations include subassociations. Ecological, biogeographical and floristic bioclimatic data are given for each association.

Keywords: Arizona Desert, Association, Baja California Desert, Classification, Mojave Desert, Ordination, Phytosociology, Sonoran Desert, Syntaxonomy.

Nomenclature: Munz (1973); for Baja California taxa Wiggins (1980); for *Agave* Gentry (1978).

Introduction

North American deserts, spread over an area of 1 277 000 km² in the United States and Mexico, can be climatically divided into two groups: cold deserts and warm deserts (MacMahon 1988). The cold deserts of the central Great Basin, which are Holocene expansions replacing an immense subalpine forest (Wells 1983), are now dominated by *Artemisia tridentata* and *A. arbuscula* (sagebrush) or, in drier basins, by *Atriplex*

confertifolia (shadscale). *Larrea tridentata* (creosote bush) shrubland dominating the warm deserts of North America, also being extensive Holocene expansions, replace Wisconsin pinyon-juniper woodlands (Betancourt et al. 1990). The flora of the warm deserts is derived from subtropical elements and shows affinities with the Neotropics (Daubennire 1978; Rzedowski 1978; Axelrod 1979; Peinado et al. 1994a).

Ecological and botanical studies of the neotropical North American deserts have been the subject of many scientific publications (see Brown et al. 1982) but a floristic-sociological description is not yet available. Since 1988 the authors have applied the Braun-Blanquet method to analyse several western North American biomes. This paper contains descriptions of the main vegetation types (associations) found in warm North American deserts.

Study area

The study was carried out in desert zones of the United States, mainly Arizona, California, Nevada, New Mexico and Utah, and of Mexico: Baja California Peninsula and northern Sonora (Fig. 1).

Despite big differences in geology and topography, the study area is relatively homogeneous regarding geological structure and climate. According to MacMahon (1988) the most obvious feature in the warm North American deserts is that the land surface is dotted with isolated, block-faulted mountains, rising abruptly from debris-filled basins with internal drainages. This feature creates four major geomorphic surfaces: (1) 'mesas': isolated flat-topped hills bounded on at least one side by a steep cliff and having an extensive summit area; (2) 'piedmonts' or 'roquesos': eroded bedrocks at the base of an abrupt hill slope; (3) 'bajadas': sheet floods formed by coalesced alluvial fans; and (4) 'playas': closed drainage basins in which ephemeral lakes form. Soil particle distribution changes from the top downward to the bottom of the bajadas; coarse materials are found

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Wenbin Ji

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Major Plant Communities Of Warm North American Deserts:

Physiological Ecology of North American Desert Plants Stanley D. Smith, Russell Monson, Jay E. Anderson, 2012-12-06 This book begins with the physical and biological characterization of the four North American deserts and a description of the primary adaptations of plants to environmental stress In the following chapters the authors present case studies of key species representing dominant growth forms of the North American deserts and provide an up to date and comprehensive review of the major patterns of adaptations in desert plants One chapter is devoted to several important exotic plants that have invaded North American deserts The book ends with a synthesis of the adaptations and resource requirements of North American desert plants Further it addresses how desert plants may respond to global climate change *North American Terrestrial Vegetation* Michael G. Barbour, William Dwight Billings, 2000 This second edition provides extensively expanded coverage of North American vegetation from arctic tundra to tropical forests

Structure-Function Relations of Warm Desert Plants Arthur C. Gibson, 2012-12-06 For centuries biologists have been extremely interested in the structure of desert plants as examples of natural selection to harsh environmental conditions Indeed desert plants are frequently used as examples in many biology classes and textbooks to illustrate natural selection but this has led to an unfortunate litany of errors and misconceptions about desert plant adaptations This new synthesis focuses on plants of lowland tropical and subtropical arid deserts Readers will be surprised to discover that many features commonly ascribed to desert plants are rarely observed in the most common species Instead the typical structural adaptations of nonsucculent warm desert plants are now viewed as ways to maximize photosynthetic rate

United States Gypsum Company, Expansion/modernization Project, 2008 *Physiological Ecology of North American Plant Communities* Brain F. Chabot, 2012-12-06 Although as W D Billings notes in his chapter in this book the development of physiological ecology can be traced back to the very beginnings of the study of ecology it is clear that the modern development of this field in North America is due in the large part to the efforts of Billings alone The foundation that Billings laid in the late 1950s came from his own studies on deserts and subsequently arctic and alpine plants and also from his enormous success in instilling enthusiasm for the field in the numerous students attracted to the plant ecology program at Duke University Billings own studies provided the model for subsequent work in this field Physiological techniques normally confined to the laboratory were brought into the field to examine processes under natural environmental conditions These field studies were accompanied by experiments under controlled conditions where the relative impact of various factors could be assessed and further where genetic as opposed to environmental influences could be separated This blending of field and laboratory approaches promoted the design of experiments which were of direct relevance to understanding the distribution and abundance of plants in nature Physiological mechanisms were studied and assessed in the context of the functioning of plants under natural conditions rather than as an end in itself *Physiological Ecology of North American Plant Communities* Brian

F. Chabot, Harold A. Mooney, 1985-04-04 Physiological ecology is an exciting rapidly developing field This volume ably indicates the immense gaps in our knowledge in part through a compilation of current knowledge about how plants adapt to the environmental conditions of the various North American biomes Single chapters consider Arctic alpine taiga chaparral grassland deciduous forest tropical and subtropical forest marine beaches and dunes and coastal marshes Two chapters are devoted to Western forests and three to deserts The short preface is a poor substitute for a thoughtful introduction and a summary is sorely missed W D Billing's chapter on the history of plant ecophysiology is outstanding The only remotely comparable single volume work in English is Heinrich Walter's *Vegetation of the Earth and Ecological Systems of the Geobiosphere* 2nd ed 1979 1st ed CH Apr 74 the present volume fills in many details excluded in Walter's global treatment A solid background in ecology and plant physiology is needed to comprehend at least half of each chapter however Chabot and Mooney provide an excellent reference work of use to advanced undergraduates graduates and faculty Recommended for libraries in colleges with plant ecology plant geography or plant physiology courses G D Dreyer Connecticut College Choice Reviews

Ecology and Management of Black-tailed and Mule Deer of North America James R. Heffelfinger, Paul R. Krausman, 2023-04-27 Black tailed and mule deer represent one of the largest distributions of mammals in North America and are symbols of the wide open American West Each chapter in this book was authored by the world's leading experts on that topic Both editors James R Heffelfinger and Paul R Krausman are widely published in the popular and scientific press and recipients of the O C Wallmo Award given every two years to a leading black tailed and mule deer expert who has made significant contributions to the conservation of this species In addition Heffelfinger has chaired the Mule Deer Working Group sponsored by the Western Association of Fish and Wildlife Agencies for more than 15 years This working group consists of the leading black tailed and mule deer experts from each of 24 states provinces and territories in western North America putting them at the forefront of all conservation and much of the research on this species The book represents all current knowledge available on these deer including how changing conditions such as fires habitat alteration and loss disease climate change socio economic forces energy development and other aspects are influencing their distribution and abundance now and into the future It takes a completely fresh look at all chapter topics The revisions of distribution taxonomy evolution behavior and new and exciting work being done in deer nutrition migration and movements diseases predation and human dimensions are all assembled in this volume This book will instantly become the foundation for the latest information and management strategies to be implemented on the ground by practitioners and to inform the public Although this book is about deer the topics discussed influence most terrestrial wildlife worldwide and the basic concepts in many of the chapters are applicable to other species

Ecology of Sonoran Desert Plants and Plant Communities Robert H. Robichaux, 2023-01-10 The Sonoran Desert is a distinctive biotic region that fascinates scientist students and nature lovers This book offers an accessible introduction to Sonoran Desert ecology Eight original essays by Sonoran Desert specialists

such as Paul Martin and Richard Felger provide an overview of the practice of ecology at landscape community and organismal scales The essays explore the rich diversity of plant life in the Sonoran Desert and the ecological patterns and processes that underlie it They also reveal the history and scientific legacy of the Desert Laboratory in Tucson which has conducted research on the Sonoran Desert since 1903 Coverage includes diversity and affinities of the flora physical environments and vegetation landscape complexity and ecological diversity population dynamics of annual plants form and function of cacti and the relationship between plants and the animals that use them as feeding and breeding resources The text also examines the ecological consequences of modern agricultural development as well as the impact on the modern biota of 40 000 years of change in climate vegetation megafauna and ancient cultures This comprehensive book covers a broad range of spatial and temporal scales to highlight the diversity of research being pursued in the Sonoran Desert It is both a testament to these ongoing studies and an authoritative introduction to the diverse plant life in the region

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Toquop Energy Project ,2007 *Fire Ecology and Management of the Major Ecosystems of Southern Utah* ,2007 This document provides managers with a literature synthesis of the historical conditions current conditions fire regime condition classes FRCC and recommended treatments for the major ecosystems in southern Utah Sections are by ecosystems and include

- 1 coniferous forests ponderosa pine mixed conifer and Engelmann spruce subalpine fir
- 2 aspen
- 3 pinyon juniper
- 4 big and black sagebrush and
- 5 desert shrubs creosotebush blackbrush and interior chaparral

Southern Utah is at the ecological crossroads for much of the western United States It contains steep environmental gradients and a broad range of fuels and fire regimes associated with vegetation types representative of the Rocky Mountains the Great Basin Northern Arizona and New Mexico and the Mohave Desert The Southern Utah Demonstration Area consists of contiguous state and federal lands within the administrative boundaries of the Bureau of Land Management BLM Fishlake and Dixie National Forests National Park Service and State of Utah roughly encompassing the southern 15 percent of Utah 3 24 million ha The vegetation types described are similar in species composition stand structure and ecologic function including fire regime to vegetation types found on hundreds of millions of hectares in the 11 western states

Changing Plant Life of La Frontera Grady Linder Webster, Conrad J. Bahre, 2001 Presents a new agenda for study of the strikingly diverse shrub and grassland ecosystems of the U S Mexico border

Natural Resources And Development In Arid Regions Enrique Campos-Lopez, 2019-03-08 In this book the authors integrate various perspectives on the evaluation of natural resources in arid and semiarid zones analyze development options and discuss systems analysis tools that could be important for the management of technology **Desert Biomes** Joyce A. Quinn, 2008-12-30 This volume in the Greenwood Guides to Biomes of the World focuses on deserts the seemingly desolate but actually quite lively regions that are home to some of the most interesting and beautiful flora and fauna in the world Desert Biomes examines three different types of biomes warm hot deserts such as the Mojave and Sahara deserts cold deserts such as Patagonia in South America and the West Coast Fog Desert biomes which occur on certain regions of the western edge of major continents The volumes examines how these biomes are unique in terms of their vegetation geographical distribution soil challenges posed by the environment adaptation of the plants and animals to the environment and conservation efforts Maps photos diagrams drawings and tables accompany the text as do sidebars that highlight habitats species and ecological relationships The volume includes a bibliography of accessible resources for further research

Land of Chamise and Pines Richard A. Minnich, Ernesto Franco Vizcaino, 1998-11-04 In marked contrast to California's landscape of urban sprawl expansive agriculture and wildlands altered by protectionist management systems many landscapes in neighboring Baja California would still be recognizable to the first European explorers This book shows that the vegetation of present day Baja California is remarkably similar to that observed in the 18th and 19th centuries and that historical fire and grazing management has done little to alter the region's resilient mediterranean type shrublands and forests *Major Douglas-fir Habitat Types of Central Idaho* Robert Wilbur Steele, Kathleen Geier-Hayes, 1995 *Ground Wave Emergency Network (GWEN) Final Operational Capability (FOC)*, 1987 *Keepers of Life* Michael J. Caduto, Joseph Bruchac, 1998 This interdisciplinary curriculum in botany and plant ecology focuses on environmental and stewardship issues using the framework of Native American stories as an introduction to the topics **Earth and Its Environment** Mr. Rohit Manglik, 2024-03-24 Investigates Earth's ecosystems climate systems and natural processes emphasizing human impacts and strategies for sustainable management to preserve environmental balance and resources **Terrestrial Plant Ecology** Michael G. Barbour, 1999 A textbook covering the entire field blending classical topics with the results of new research summarizing yet presenting conflicting evidence and opinions avoiding jargon when possible and focusing on being a textbook rather than an exhaustive reference First published in 1979 and again in 1987 here two new authors have been added to account for the broadening of the discipline Some basic background in the biological sciences is assumed Annotation copyrighted by Book News Inc Portland OR **Deserts and Desert Environments** Julie J Laity, 2009-01-28 Taking a global perspective this book provides a concise overview of drylands including their physical biological temporal and human components Examines the physical systems occurring in desert environments including climate hydrology past and present lakes weathering hillslopes geomorphic surfaces water as a geomorphic agent and aeolian processes Offers an

accessible introduction to the physical biological temporal and human components of drylands Investigates the nature environmental requirements and essential geomorphic roles of plants and animals in this stressful biological environment Highlights the impact of human population growth on climate desertification water resources and dust storm activity Includes an examination of surface atmosphere interactions and the impact of ENSO events

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