Record Nr. UNINA9910797719503321 Ecosystems of California / / edited by Harold Mooney and Erika **Titolo** Zavaleta; graphics edited by Melissa C. Chapin Pubbl/distr/stampa Oakland, California:,: University of California Press,, 2016 ©2016 **ISBN** 0-520-96217-6 Descrizione fisica 1 online resource (1009 p.) Disciplina 577.09794 Soggetti Ecology - California Ecosystem management - California Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references at the end of each chapters and Nota di bibliografia index. Ecosystems of California -- Front matter -- CONTENTS --Nota di contenuto CONTRIBUTORS -- PREFACE AND ACKNOWLEDGMENTS -- MARINE ECOSYSTEMS -- TERRESTRIAL ECOSYSTEMS -- ONE. Introduction --PART ONE. DRIVERS -- TWO. Climate -- THREE. Fire as an Ecosystem Process -- FOUR. Geomorphology and Soils -- FIVE. Population and Land Use -- SIX. Oceanography -- SEVEN. Atmospheric Chemistry --PART TWO. HISTORY -- EIGHT. Ecosystems Past: Vegetation Prehistory -- NINE. Paleovertebrate Communities -- TEN. Indigenous California --PART THREE. BIOTA -- ELEVEN. Biodiversity -- TWELVE. Vegetation --

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Sommario/riassunto

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.