

1. Record Nr.	UNINA9910823928703321
Titolo	Ecosystems of California / / edited by Harold Mooney and Erika 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.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Ecosystems of California -- Front matter -- CONTENTS -- 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 -- THIRTEEN. Biological Invasions -- FOURTEEN. Climate Change Impacts -- FIFTEEN. Introduction to Concepts of Biodiversity, Ecosystem Functioning, Ecosystem Services, and Natural Capital -- PART FOUR. ECOSYSTEMS -- SIXTEEN. The Offshore Ecosystem -- SEVENTEEN. Shallow Rocky Reefs and Kelp Forests -- EIGHTEEN. Intertidal -- NINETEEN. Estuaries: Life on the Edge -- TWENTY. Sandy Beaches -- TWENTY-ONE. Coastal Dunes -- TWENTY-TWO. Coastal Sage Scrub -- TWENTY-THREE. Grasslands -- TWENTY-FOUR. Chaparral -- TWENTY-FIVE. Oak Woodlands -- TWENTY-SIX. Coast Redwood Forests -- TWENTY-SEVEN. Montane Forests -- TWENTY-EIGHT. Subalpine Forests -- TWENTY-NINE. Alpine Ecosystems -- THIRTY. Deserts -- THIRTY-ONE. Wetlands -- THIRTY-TWO. Lakes -- THIRTY-THREE. Rivers --

PART FIVE. MANAGED SYSTEMS -- THIRTY-FOUR. Managed Island Ecosystems -- THIRTY-FIVE. Marine Fisheries -- THIRTY-SIX. Forestry -- THIRTY-SEVEN. Range Ecosystems -- THIRTY-EIGHT. Agriculture -- THIRTY-NINE. Urban Ecosystems -- PART SIX. POLICY AND STEWARDSHIP -- FORTY. Land Use Regulation for Resource Conservation -- FORTY-ONE. Stewardship, Conservation, and Restoration in the Context of Environmental Change -- INDEX

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.
