

1. Record Nr.	UNINA9910409682903321
Autore	McKenzie Donald (Ecologist)
Titolo	Mountains in the Greenhouse : Climate Change and the Mountains of the Western U.S.A. // by Donald McKenzie
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-42432-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (243 pages)
Disciplina	551.69143 551.6
Soggetti	Biotic communities Climatic changes Ecology Ecosystems Environment, general Terrestrial Ecology Canvi climàtic Muntanyes Ecologia de les muntanyes Llibres electrònics Estats Units d'Amèrica
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter1.Introduction: What Persists, what Changes -- Chapter2.The mountains -- Chapter3.It's getting warm down here -- Chapter4.Water towers of the west -- Chapter5.Trees, forests, and carbon -- Chapter6. Ecological disturbance -- Chapter7.Creatures great and small -- Chapter8.Extremes, Thresholds, Vulnerabilities -- Chapter9.Mountains and People in a Warming World.
Sommario/riassunto	This book is written for general readers with an interest in science, and offers the tools and ideas for understanding how climate change will affect mountains of the American West. A major goal of the book is to provide material that will not become quickly outdated, and it does so

by conveying its topics through constants in ecological science that will remain unchanged and scientifically sound. The book is timely in its potential to be a long-term contribution, and is designed to inform the public about climate change in mountains accessibly and intelligibly. The major themes of the book include: 1) mountains of the American West as natural experiments that can distinguish the effects of climate change because they have been relatively free from human-caused changes, 2) mountains as regions with unique sensitivities that may change more rapidly than the Earth as a whole and foreshadow the nature and magnitude of change elsewhere, and 3) different interacting components of ecosystems in the face of a changing climate, including forest growth and mortality, ecological disturbance, and mountain hydrology. Readers will learn how these changes and interactions in mountains illuminate the complexity of ecological changes in other contexts around the world.
