

## MOUNTAINS: SOURCES OF WATER, SOURCES OF KNOWLEDGE

Ellen Wiegandt

This book addresses the major challenges in assuring globally sustainable water use. Paradoxically, water resources have been identified both as too plentiful, producing major disasters, and increasingly vulnerable to shortages. Addressing both of these aspects requires attention to physical hydrological processes as well as human activities that affect water supply and demand. Mountain regions are the sources of many great water systems and often have long traditions of effective water management and therefore provide special insights into general problems of water use, including upstream-downstream and trans-boundary relations as well as natural hazard management. This volume will address critical contemporary and global issues through the lens of global change processes and with a focus on mountain regions to bring state-of-the-art science from numerous disciplines to examine important environmental and policy questions related to water resources.



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## DARKENING PEAKS GLACIER RETREAT, SCIENCE, AND SOCIETY

Edited by Ben Orlove, Ellen Wiegandt, and Brian H. Luckman

Looking up at mountains, people now see bare, dark rock where white snow and ice once stood – dramatic evidence of the accelerating pace of glacier retreat due to climate change. This groundbreaking work is the first to provide an integrated, multidisciplinary, global exploration of the scientific, social, and economic dimensions of this phenomenon. Bringing together contributors from five continents, *Darkening Peaks* discusses the ways that scientists have observed and modelled glaciers, tells how climate change is altering their size and distribution, and looks closely at their effect on human life.



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2007 – 296 p.