

Disaster Risk Reduction  
Methods, Approaches and Practices

Hari Krishna Nibanupudi  
Rajib Shaw *Editors*

# Mountain Hazards and Disaster Risk Reduction

 Springer

# Mountain Hazards And Disaster Risk Reduction

**Michiko Banba,Rajib Shaw**



## **Mountain Hazards And Disaster Risk Reduction:**

*Mountain Hazards and Disaster Risk Reduction* Hari Krishna Nibanupudi, Rajib Shaw, 2014-12-01 The Hindu Kush Himalayan HKH region is highly vulnerable to earthquakes and water induced disasters This fragile mountain region is under tremendous stress from climate change and land use degradation that has accelerated flash floods river line floods erosion and wet mass movements during the monsoon period and drought in the non monsoon period Against the backdrop of intensifying disasters and in the absence of a focused documentation of disaster risk reduction issues in the HKH region this volume presents a comprehensive body of knowledge The main purpose and objective of this publication is to connect existing data research conceptual work and practical cases on risk resilience and risk reduction from the HKH region under a common analytical umbrella The result is a contribution to advancing disaster resilience and risk reduction in the HKH region The book will be of special interest to policy makers donors and researchers concerned with the disaster issues in the region

**Mountain Hazards and Disaster Risk Reduction** Sachin Sehdev Paarikh, 2017 *Land Use Management in Disaster Risk Reduction* Michiko Banba, Rajib Shaw, 2016-12-05 This book provides a wide range of studies on methods of assessing natural disaster risks and reducing those risks in the context of land use A major benefit of the book is that it presents extensive research and practices from interdisciplinary perspectives through case studies of land use management against various natural disasters The natural hazards include earthquakes tsunami floods and other disasters with case studies ranging from urban areas to areas with natural environments such as mountains coasts and river systems By quantitative and qualitative analysis this work illustrates how interactions between natural and human environments create natural disasters and how disaster risks can be managed or reduced through methods related to land use This book also covers a variety of challenges in land use management with sample cases from Asia as well as the United States and Europe The main purpose is to provide greater insight into studies of natural disaster risks from the perspective of land use and the possibility of non engineering methods to reduce those risks This goal can be achieved through management of land use against various natural hazards in diverse environments

Understanding and Reducing Landslide Disaster Risk Željko Arbanas, Peter T. Bobrowsky, Kazuo Konagai, Kyoji Sassa, Kaoru Takara, 2020-12-20 This book is a part of ICL new book series ICL Contribution to Landslide Disaster Risk Reduction founded in 2019 Peer reviewed papers submitted to the Fifth World Landslide Forum were published in six volumes of this book series This book contains the following parts Impact of Large Ground Deformations near Seismic Faults on Critically Important Civil Infrastructures Recent Progress in the Landslide Initiating Science Earth Observation and Machine Learning in Landslide Science General Landslide Studies Professor eljko Arbanas is the Vice President of International Consortium on Landslides He is a Professor of Faculty of Civil Engineering University of Rijeka Croatia He is the Assistant Editor in Chief of International Journal Landslides Professor Peter Bobrowsky is the President of International Consortium on Landslides He is a Senior Scientist of Geological Survey of Canada Ottawa

Canada Professor Kazuo Konagai is Professor Emeritus at the University of Tokyo and Principal Researcher at the ICL Headquarters He serves as the Secretary General of the Fifth World Landslide Forum Professor Kyoji Sassa is the Founding President and the Secretary General of the International Consortium on Landslides ICL He has been the Editor in Chief of International Journal Landslides since its foundation in 2004 Professor Kaoru Takara is the Executive Director of International Consortium on Landslides He is a Professor and Dean of Graduate School of Advanced Integrated Studies GSAIS in Human Survivability Shishu Kan Kyoto University

*Handbook of Hazards and Disaster Risk Reduction* Ben Wisner, JC Gaillard, Ilan Kelman, 2012-03-29 The Handbook provides a comprehensive statement and reference point for hazard and disaster research policy making and practice in an international and multi disciplinary context It offers critical reviews and appraisals of current state of the art and future development of conceptual theoretical and practical approaches as well as empirical knowledge and available tools Organized into five inter related sections this Handbook contains sixty five contributions from leading scholars Section one situates hazards and disasters in their broad political cultural economic and environmental context Section two contains treatments of potentially damaging natural events phenomena organized by major earth system Section three critically reviews progress in responding to disasters including warning relief and recovery Section four addresses mitigation of potential loss and prevention of disasters under two sub headings governance advocacy and self help and communication and participation Section five ends with a concluding chapter by the editors The engaging international contributions reflect upon the politics and policy of how we think about and practice applied hazard research and disaster risk reduction This Handbook provides a wealth of interdisciplinary information and will appeal to students and practitioners interested in Geography Environment Studies and Development Studies

**Navigating Natural Hazards in Mountainous Topographies** Gowhar Meraj, Shizuka Hashimoto, Pankaj Kumar, 2024-08-15 Nature's Fury Navigating Natural Hazards in Mountainous Topographies shall be a comprehensive guide to the unique challenges and hazards associated with mountainous regions and the efforts being made to mitigate their impact The book shall provide a detailed overview of natural hazards such as earthquakes landslides avalanches and flash floods and explores their impacts on communities and the environment It would delve into the science of risk assessment and vulnerability analysis and shall offer practical insights into mitigation strategies such as early warning systems evacuation plans and disaster response efforts The book will also explore the role of technology and predictive modeling in mountain hazards management and the relationship between mountain hazards and climate change With realworld examples and case studies from the Himalayas the Andes and the Rockies the book shall provide a comprehensive examination of the field of mountain hazards management It will cover community based disaster management and preparedness environmental conservation and sustainable development and the balancing of tourism and conservation in mountainous regions The book will also include lessons learned from major mountain disasters and the importance of international cooperation in mountain hazards management It would cater wide

audience including professionals in the field of disaster management an environmental scientist or even an enthusiast of mountain landscapes We propose to have an engaging writing style and practical insights in this book that will provide a valuable resource for anyone interested in navigating the unique challenges and hazards of mountainous topographies

Safeguarding Mountain Social-Ecological Systems, vol. 1 Stefan Schneiderbauer, Paola Fontanella Pisa, John F.

Shroder, Jorg Szarzynski, 2023-12-01 Safeguarding Mountain Ecosystems A Global Challenge provides an overview of the relevant research in mountain regions worldwide identifying existing challenges and providing an understanding of the diversity of mountain ecosystems in different regions Mountain ecosystems are increasingly vulnerable to modified climate conditions and other global changes demographic migration urbanization In this time of change efforts for sustainable development in mountain ecosystems deserve all the attention especially in synergy with the United Nations International Frameworks including the Sustainable Development Agenda 2030 the Sendai Framework for Disaster Risk Reduction the Paris Agreement and the New Urban Agenda Sections underline the importance of mountain regions for humanity at global regional and local scales describe the challenges of safeguarding mountains and possible solutions worldwide and scrutinize regional specificities of the major mountain ranges describing the challenges and opportunities of each Final sections reflect on applications and technologies that address and solve major problems Focuses on existing challenges for mountain regions around the world Presents specific case studies of mountain ecosystems from major mountain ranges Features contributions from representatives of UN Agencies and research experts from the addressed regions offering a very interdisciplinary view on challenges and opportunities **Geomorphic Risk Reduction Using Geospatial Methods and Tools** Raju

Sarkar, Sunil Saha, Basanta Raj Adhikari, Rajib Shaw, 2024-05-04 This book explores the use of advanced geospatial techniques in geomorphic hazards modelling and risk reduction It also compares the accuracy of traditional statistical methods and advanced machine learning methods and addresses the different ways to reduce the impact of geomorphic hazards In recent years with the development of human infrastructures geomorphic hazards are gradually increasing which include landslides flood and soil erosion among others They cause huge loss of human property and lives Especially in mountainous coastal arid and semi arid regions these natural hazards are the main barriers for economic development Furthermore human pressure and specific human actions such as deforestation inappropriate land use and farming have increased the danger of natural disasters and degraded the natural environment making it more difficult for environmental planners and policymakers to develop appropriate long term sustainability plans The most challenging task is to develop a sophisticated approach for continuous inspection and resolution of environmental problems for researchers and scientists However in the past several decades geospatial technology has undergone dramatic advances opening up new opportunities for handling environmental challenges in a more comprehensive manner With the help of geographic information system GIS tools high and moderate resolution remote sensing information such as visible imaging synthetic aperture radar global navigation satellite systems

light detection and ranging Quickbird Worldview 3 LiDAR SPOT 5 Google Earth Engine and others deliver state of the art investigations in the identification of multiple natural hazards For a thorough examination advanced computer approaches focusing on cutting edge data processing machine learning and deep learning may be employed To detect and manage various geomorphic hazards and their impact several models with a specific emphasis on natural resources and the environment may be created

**The Hindu Kush Himalaya Assessment** Philippus Wester, Arabinda Mishra, Aditi Mukherji, Arun Bhakta Shrestha, 2019-01-04 This open access volume is the first comprehensive assessment of the Hindu Kush Himalaya HKH region It comprises important scientific research on the social economic and environmental pillars of sustainable mountain development and will serve as a basis for evidence based decision making to safeguard the environment and advance people s well being The compiled content is based on the collective knowledge of over 300 leading researchers experts and policymakers brought together by the Hindu Kush Himalayan Monitoring and Assessment Programme HIMAP under the coordination of the International Centre for Integrated Mountain Development ICIMOD This assessment was conducted between 2013 and 2017 as the first of a series of monitoring and assessment reports under the guidance of the HIMAP Steering Committee Eklabya Sharma ICIMOD Atiq Raman Bangladesh Yuba Raj Khatriwada Nepal Linxiu Zhang China Surendra Pratap Singh India Tandong Yao China and David Molden ICIMOD and Chair of the HIMAP SC This First HKH Assessment Report consists of 16 chapters which comprehensively assess the current state of knowledge of the HKH region increase the understanding of various drivers of change and their impacts address critical data gaps and develop a set of evidence based and actionable policy solutions and recommendations These are linked to nine mountain priorities for the mountains and people of the HKH consistent with the Sustainable Development Goals This book is a must read for policy makers academics and students interested in this important region and an essentially important resource for contributors to global assessments such as the IPCC reports

**Sustainable Development and Disaster Risk Reduction** Juha I. Uitto, Rajib Shaw, 2015-11-05 This book focuses on exploring the linkages between natural disasters and sustainable development at the global regional and national levels Disasters and development are closely related yet the disciplinary silos prevail and there is little communication and cooperation between the disaster management environment and development communities One catastrophic event such as an earthquake tsunami or cyclone can destroy infrastructure people s lives and livelihoods and set back development Similarly slow onset disasters often associated with global climate change pose threats to development livelihoods food security and long term sustainable development This book is uniquely aimed at bridging the gaps between the environmental development and disaster management communities It traces the evolution of concepts and practice and highlights the linkages between natural disasters and sustainable development in key sectors including food security health and water The book includes case studies from the field highlighting the complex issues that challenge sustainable development and disaster risk management in practice It draws policy conclusions for the global community

based on state of the art knowledge from research and practice The primary target groups for the book are researchers including graduate students in the fields of environment and sustainable development geography disaster risk reduction and climate change studies The second target group comprises practitioners and policymakers working in national and international organizations the private sector and civil society Integrated Disaster Risk Management: From Earth Sciences to Policy Making Irasema Alcántara-Ayala, Jean-Claude Thouret, Peng Cui, Marten Geertsema, Rodrigo Cienfuegos, 2022-11-07

**Climate Change, Extreme Events and Disaster Risk Reduction** Suraj Mal, R.B. Singh, Christian Huggel, 2017-12-05 This book discusses the science causes impacts and risk reduction strategies for climate change and disasters It focuses on the use of traditional knowledge new innovation and education to build a culture of safety and resilience at all levels in order to promote sustainable development goals in general and disaster risk reduction in particular The global climate has changed substantially over the last century There is strong evidence of global climate change in the form of increase in air and sea surface temperature recession of glaciers changes and shifting of climate regimes increasing number of extreme events and sea levels changes The increasing frequency of climate change induced disasters in particular is posing a threat to resilience lives and livelihoods at global regional and local levels Major ecosystems of the world have experienced several climate induced disaster events in recent past This book provides new insights into the occurrence and impacts of climatic extremes and strategies for disaster risk reduction It includes studies on rainfall and temperature trends floods and drought disasters weather and climatic related disasters in mountains changes in plant activities risk assessment and responses in different ecosystems of the world The book is particularly useful for environmental and disaster managers researchers and graduate students as well as policy makers *Protective Forests as Ecosystem-based Solution for Disaster Risk Reduction (Eco-DRR)* Michaela Teich, Cristian Accastello, Frank Perzl, Karl Kleemayr, 2022-12-21 Protective forests are a key component to reduce natural hazard risks in mountain areas by preventing or decreasing the frequency magnitude and or intensity of snow avalanches rockfall landslides floods and debris flows This book summarizes the state of the art knowledge and introduces methods and decision support tools to facilitate the use of protective forests for Ecosystem based Disaster Risk Reduction Eco DRR as part of an integrated risk management in the Alpine Space Moreover it highlights how translating scientific knowledge into practical solutions can only be achieved by an active and iterative exchange with practitioners and policy makers and a common understanding of applied concepts and definitions Only then can protective forests be managed sustainably under constantly changing climate and socio economic conditions *Himalaya: Mountains of Destiny* Suresh Chand Rai, 2025-09-30 This book highlights the different ways of seeing and engaging with the natural world and underscores the need to acknowledge and honour the ways that indigenous peoples have done for generations Mountain regions occupy about one fourth of the Earth's terrestrial surface and they are home to almost one tenth of the global population and offer goods and services to more than half of humanity Consequently

they received attention at the highest level during the 1992 United Nations Conference on Environment and Development UNCED in Rio de Janeiro s Earth Summit Mountain environments are crucial to the survival of global ecosystems many of them are experiencing degradation in terms of accelerated soil erosion landslides and rapid loss of habitat and genetic diversity etc Hence proper management of mountain resources and the socio economic development of the people deserves immediate action Unfortunately the capacity of mountain ecosystems to provide continued resources is threatened due to the increasing stress of human impact at the global level in general and the Himalayan region in particular The Himalaya a highly complex and diversified mountain system in terms of bio physical attributes is considered a life support system for millions of people in the uplands and many more in lowland areas of India It acts as a climate regulator for much of Asia and is globally recognized for its sacred spiritual and philosophical values The richness and uniqueness of bio physical and socio cultural diversity and the rich heritage of Indigenous Knowledge and Practices IKP have earned the Himalaya global recognition Being young and geotectonically active this system remains inherently unstable fragile and prone to natural disasters Also the vulnerability of this mountain chain to human induced disturbances is now well established Therefore being a special and sensitive system and more importantly due to its life support values the Himalaya deserve special attention It requires conservation and development interventions in a sustainable manner which do not ignore the imperatives of mountain specificities Thus calls for evolving new paradigms of long term conservation and sustainable development that help restore a complex balance between economic interests and ecological imperatives in the region and country in general Understanding that the Himalaya are important for the Ecological Security of the region there is a need for its conservation in the 21st century The present book proposal has been decided to document the Himalayan priorities to achieve sustainable development goals The book is consisting of four sections which will deal with the different dimensions of the Himalaya The present book is conceptualized with an idea to collect case studies on various aspects and applications of conservation measures to value their knowledge and wisdom and to achieve sustainable development goals SDGs

**Remote Sensing of African Mountains** Samuel Adelabu, Abel Ramoelo, Adeyemi Olusola, Efosa Adagbasa, 2022-08-30 This edited volume focuses on the use of remote sensing techniques to assess and monitor mountainous ecosystems in Africa with a focus on tracking changes related to climate change and human activity The book is timely as the interaction of mountain environmental dynamics with conservation and sustainability is an under researched issue The chapters in this volume use remotely sensed data to study a variety of topics related to mountains and their ecosystems including but not limited to vegetation energy systems environmental hazards ecosystem services diseases climatic shifts geological formations and geomorphological dynamics The ability to monitor assess and analyze mountainous regions is aided by the availability of remote sensing products such as optical and microwave sensors and low cost unmanned aerial vehicles UAVs The works presented here push the frontier of knowledge on mountain studies and will help shape local national and global assessments



and policies including efforts toward the achievement of the African Agenda 2063 The book will be of interest to researchers and students in remote sensing geography ecology and sustainability as well as to government organizations and conservation specialists

**Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides** Raju Sarkar,Rajib Shaw,Biswajeet Pradhan,2022-01-03 This book discusses the impact of climate change land use and land cover and socio economic dynamics on landslides in Asian countries Scholars recently have brought about a shift in their focus regarding triggering factors for landslides from rainfall or earthquake to claiming rapid urbanization extreme population pressure improper land use planning illegal hill cutting for settlements and indiscriminate deforestation This suggests that the occurrence or probabilities of landslides are shaped by both climate related and non climate related anthropogenic factors Among these issues land use and land cover change or improper land use planning is one of the key factors Further climate change shapes the rainfall pattern and intensity in different parts of the world and consequently rainfall triggered landslides have increased These changes cause socio economic changes Conversely socio economic and lifestyle changes enhance inappropriate land use and climate change All these changes in land use climate and socio economic aspects are dynamics in nature and shape landslide risks in Asian countries where they are given serious attention by governments disaster management professionals researchers and academicians This book comprises 21 chapters divided into three major sections highlighting the effect of climate change on landslide incidence with the influence on vegetation and socio economic aspects The sections address how climate change and extreme events have triggered landslides The advances in geospatial techniques with the focus on land use and land cover change along with the effect on socio economic aspects are also explored

*Warming Mountains* Sachchidanand Tripathi,Rahul Bhadouria,Satish Chandra Garkoti,2024-11-11 This contributed volume focuses on the sustainability of mountain ecosystems in the face of a changing climate Its chapters highlight climate change impacts on the livelihoods of the people and communities that live in mountains and ways that these effects can be mitigated through adaptive measures The chapters herein address a gamut of topics from use of remote sensing tools to assess changing ecosystems disaster management in mountains policymaking between institutions and more This book is suitable for students undergraduate and postgraduates of ecology and environmental studies sciences mountainous agriculture mountain forestry teachers researchers climate change scientists in academic and research institutions It will also be useful to environmental management agencies particularly working towards sustainable development in mountainous regions disaster management authorities government agencies and policy makers

**Mountain Risks: From Prediction to Management and Governance** Theo Van Asch,Jordi Corominas,Stefan Greiving,Jean-Philippe Malet,Simone Sterlacchini,2013-09-30 This book offers a cross disciplinary treatment of the rapidly growing field of integrated approaches in risk assessment in mountainous areas All major aspects related to hazard and risk assessment risk management and governance are illustrated with a wide range of case studies The first part of the book

focuses on new techniques for assessing the natural hazards of different types of mass movements State of the art techniques for morphological characterization and monitoring of displacements are described Computational advances are covered to explain the process systems and to quantify the hazards of fast and slow moving landslides In the second part of the book methodologies are included for assessing the impact of these natural hazards on the society in terms of risks In this part methodologies for defining the vulnerability of the elements at risk are shown and the use of run out models for risk assessment of the dangerous rapid mass movements are evaluated The third part of the book focuses on the response of society towards the problems of hazard and risk It highlights the role of spatial planning early warning systems and evacuation plans for risk management It establishes practical thresholds for acceptable and tolerable risks and emphasizes the importance of education and communication to society Audience The book is of interest to a wide range of experts from related disciplines practitioners and stakeholders to demonstrate the importance of an integrated approach for all aspects of risks in mountainous areas Landslide Hazard in a Changing Environment Davide Tiranti, Roberto Cremonini, 2019-04-03

Landslides are one of the most dangerous geomorphological processes responsible for losses of human lives and damages to structures infrastructures cultural and natural heritage During the Anthropocene impacts of human activity on the environment including recent climate changes have caused deep alterations to the natural evolution of surficial geologic processes causing a progressive increase in the occurrence of landslides The goal of this Research Topic is to provide an updated overview of the progress in the field of landslide research covering all the aspects related to the geological event geomorphological characterization and understanding of triggering and predisposing factors new technologies applied to the study of evolution of slope phenomena new methodologies to foresee and mitigate landslide hazards **Financial Schemes**

**for Resilient Flood Recovery** Lenka Slavíková, Thomas Hartmann, Thomas Thaler, 2021-08-26 Financial schemes for flood recovery if properly designed and implemented might increase flood resilience However options for the increase of flood resilience during the recovery phase are to a large extent overlooked and the diversity of existing schemes shows that there has been a lack of consensus on how to achieve resilient flood recovery Financial Schemes for Resilient Flood Recovery investigates how the implementation of financial schemes government relief subsidies insurance schemes buy outs etc might increase flood resilience The chapters included in this edited volume address the following questions Shall government relief subsidies exist when there is flood insurance in place and if so how might they both be coordinated Where or how to decide about build back better incentives and where to go for planned relocation programs What is the distributional equity of financial schemes for flood recovery and has it been sufficiently treated The book covers different approaches to flood recovery schemes with specific intervention rationales in different countries Empirical evidence provided clearly shows the great diversity of financial flood recovery schemes This diversity of state funded schemes private based insurance schemes and hybrids as well as planned relocation schemes indicates a lack of a consistent and strategic approach in flood risk

management and flood resilience about flood recovery The chapters in this book were originally published in the  
Environmental Hazards

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