



INLAND FLOOD HAZARDS

Human, riparian, and
aquatic communities

EDITED BY ELLEN E. WOHL

Inland Flood Hazards Human Riparian And Aquatic Communities

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Inland Flood Hazards Human Riparian And Aquatic Communities:

Inland Flood Hazards Ellen E. Wohl, 2000-07-03 This edited volume was originally published in 2000 and presents a comprehensive interdisciplinary review of issues related to inland flood hazards. It addresses physical controls on flooding, flood processes and effects, and responses to flooding from the perspective of human aquatic and riparian communities. Individual chapter authors are recognized experts in their fields who draw on examples and case studies of inland flood hazards from around the world. This volume is unusual among treatments of flood hazards in that it addresses how the non-occurrence of floods in association with flow regulation and other human manipulation of river systems may create hazards for aquatic and riparian communities. This book will be a valuable resource for everyone associated with inland flood hazards: professionals in government and industry and researchers and graduate students in civil engineering, geography, geology, hydrology, hydraulics, and ecology.

Geographic Information Science and Mountain Geomorphology Michael Bishop, John F. Shroder, 2004-06-30 From the reviews: Bishop and Shroder, both of the Univ. of Nebraska at Omaha, have brought together an impressive group of practitioners in the relatively new application of geographic information science to mountain geomorphology. In doing so, they have produced valuable first overall coverage of a high-tech approach to mountain three-dimensional research. More than 40 contributing authors discuss a wide range of related aspects. The book is well bound and well produced; each chapter provides an extensive source of references. The numerous line drawings are clearly reproduced, although the mediocre quality of photographic reproduction limits the value of air photographs and satellite images. As is characteristic of many edited collections, there is some variation in chapter quality. Some of the writing is so dense that it requires minute concentration; one chapter, for instance, has 14 pages of references from a total of 43 pages. Nevertheless, this is a vital compendium for a rapidly expanding field of research. Summing Up: Recommended. Upper division undergraduates through professionals. J. D. Ives, Choice, March 2005.

Floods of the Tiber in Ancient Rome Gregory S. Aldrete, 2007-03-05 A study of the impact of flooding on the ancient city during the classical period. While the remains of its massive aqueducts serve as tangible reminders of Rome's efforts to control its supply of drinking water, there are scant physical reminders that other waters sometimes raged out of control. In fact, floods were simply a part of life in ancient Rome, where proximity to the Tiber left a substantial part of the city vulnerable to the river's occasional transgressions. Here, in the first book-length treatment of the impact of floods on an ancient city, Gregory S. Aldrete draws upon a diverse range of scientific and cultural data to develop a rich and detailed account of flooding in Rome throughout the classical period. Aldrete explores in detail the overflowing river's destructive effects, drawing from ancient and modern written records and literary accounts, analyses of the topography and hydrology of the Tiber drainage basin, visible evidence on surviving structures, and the known engineering methods devised to limit the reach of rising water. He discusses the strategies the Romans employed to alleviate or prevent flooding, their social and religious attitudes toward floods, and how the threat of inundation influenced the

development of the city's physical and economic landscapes. **Floods of the Tiber in Ancient Rome** is that rare thing in scholarship: a work that genuinely fills a gap in the scholarly literature. Professor Aldrete has brilliantly illuminated an aspect of ancient Rome that was ever present to the city's inhabitants but almost invisible to modern historians. Stanley Burstein, history teacher, raises important questions about the effects of flooding of the Tiber on the city of ancient Rome and its inhabitants and explores why Romans did not take more sweeping steps to reduce if not eliminate the dangers of urban flooding. There is no comparable book-length study of this topic, so this work fills a real need. It will be of interest not only to students of ancient history but to hydrologists and students of urban studies as well. Certainly it will give us classicists much to think about in our assessment of urban life in ancient Rome. Harry B. Evans, Fordham University, author of *Aqueduct Hunting in the Seventeenth Century*. **ICDSME 2019** Lariyah Mohd Sidek, Gasim Hayder Ahmed Salih, Mohd Hariffin Boosroh, 2019-12-02. This book presents peer-reviewed articles from the 1st International Conference on Dam Safety Management and Engineering ICDSME 2019, organized by the Malaysian National Committee on Large Dams MYCOLD Tenaga Nasional Berhad TNB Department of Irrigation and Drainage DID and Universiti Tenaga Nasional UNITEN. With the theme 'resilient dams for resilient communities', the conference highlighted the latest developments in the area and provided a platform for researchers and professionals to exchange ideas and to address dam safety and engineering issues with the environment in mind. The topics covered included but were not limited to best practices in dam safety, reservoir management, dam health monitoring, risk assessment, emergency management, and sustainable dams. **The Quaternary Period in the United States** A.R. Gillespie, S.C. Porter, B.F. Atwater, 2003-12-17. This book reviews advances in understanding of the past ca. two million years of Earth history: the Quaternary Period in the United States. It begins with sections on ice and water as glaciers, permafrost, oceans, rivers, lakes, and aquifers. Six chapters are devoted to the high-latitude Pleistocene ice sheets, to mountain glaciations of the western United States, and to permafrost studies. Other chapters discuss ice-age lakes, caves, sea-level fluctuations, and riverine landscapes. With a chapter on landscape evolution models, the book turns to essays on geologic processes. Two chapters discuss soils and their responses to climate and wind-blown sediments. Two more describe volcanoes and earthquakes and the use of Quaternary geology to understand the hazards they pose. The next part of the book is on plants and animals. Five chapters consider the Quaternary history of vegetation in the United States. Other chapters treat forcing functions and vegetation response at different spatial and temporal scales, the role of fire as a catalyst of vegetation change during rapid climate shifts, and the use of tree rings in inferring age and past hydroclimatic conditions. Three chapters address vertebrate paleontology and the extinctions of large mammals at the end of the last glaciation, beetle assemblages, and the inferences they permit about past conditions and the peopling of North America. A final chapter addresses the numerical modeling of Quaternary climates and the role paleoclimatic studies and climatic modeling has in predicting future response of the Earth's climate system to the changes we have wrought. **Gravel Bed Rivers 6** H. Habersack, H. Piegay, M.

Rinaldi,2011-09-22 Based on the interdisciplinary approaches between earth science engineering physical geography ecology and management this text focuses on the theoretical questions case studies challenges and constraints taken from river restoration It is illustrated with reports of new ground breaking research covering spatial and temporal scales of physical processes in river catchments coupling catchment and fluvial processes grain dynamics and fluvial forms and on geo ecology and restoration in mountain gravel bed river environments Each chapter includes discussions and comments providing experience and feedback from the fundamental research This book covers scales of analysis for gravel bed rivers physics and modeling of processes at local and point scales sediment delivery and storage eco geography and eco hydraulics and channel management and restoration Major topics in the field are presented by recognized scientific leaders Chapters cover theories practices and methodologies in river management and restoration Interdisciplinary approach includes case studies on new ground breaking research Natural and Artificial Rockslide Dams Stephen G. Evans,Reginald L. Hermanns,Alexander Strom,Gabriele Scarascia-Mugnozza,2011-08-28 In the last one hundred years a number of catastrophic events associated with rockslide dam formation and failure have occurred in the mountain regions of the world This book presents a global view of the formation characteristics and behaviour of natural and artificial rockslide dams Chapters include a comprehensive state of the art review of our global understanding natural and artificial rockslide dams overviews of approaches to rockslide dam risk mitigation regional studies of rockslide dams in India Nepal China Pakistan New Zealand and Argentina Rockslide dams associated with large scale instability of volcanoes are also examined Detailed case histories of well known historic and prehistoric rockslide dams provide examples of investigations of rockslide dam behaviour stability and characteristics The formation and behaviour of rockslide dammed lakes Quake Lakes formed during the 2008 Wenchuan Earthquake China are also comprehensively summarised The formation sedimentology and stability of rockslide dams is examined in several analytical papers An analysis of break out floods from volcanogenic lakes and hydrological methods of estimating break out flood magnitude and behavior are reviewed The use of remote sensing data in rockslide dammed lake characterisation is explored and a new approach to the classification of rockslide dams is introduced Finally a unique section of the book summarises Russian and Kyrgyz experience with blast fill dam construction in two papers by leading authorities on the technology The volume contains 24 papers by 50 authors from 16 countries including most of the recognised world authorities on the subject *Floodplains* Jeffrey J. Opperman,Peter B. Moyle,Eric W. Larsen,Joan L. Florsheim,Amber D. Manfree,2017-09-05 Introduction to temperate floodplains Hydrology Floodplain and geomorphology Biogeochemistry Ecology introduction Floodplain forests Primary and secondary production Fish and other vertebrates Ecosystem services and floodplain reconciliation Floodplains as green infrastructure Case studies of floodplain management and reconciliation Central Valley floodplains introduction and history Central Valley floodplains today Reconciling Central Valley floodplains Conclusions managing temperate floodplains for multiple benefits *Seek Higher Ground* Tim Palmer,2024-04-02 Pairing in

depth journalism with historical perspectives this book makes a compelling case for a natural solution to the growing problem of flooding With *Seek Higher Ground* environmental writer and former land use planner Tim Palmer explores the legacy of flooding in America taking a fresh look at the emerging climatic economic and ecological realities of our rivers and communities Global warming is forecast to sharply intensify flooding and this book urges that we reduce future damage in the most effective efficient and equitable ways possible Through historical narrative rigorous reporting and decades of vivid personal experience Palmer details how our society's approach to flood control has been infamously inadequate and chronically counterproductive He builds a powerful argument for both the protection of floodplain open space and for programs that help people voluntarily relocate their homes away from high water hazards Only by recognizing the indomitable forces of nature and adapting to them can we thrive in the challenging climate to come

Conserving Cultural Landscapes Ken Taylor,Archer St. Clair,Nora J. Mitchell,2014-09-19 New approaches to both cultural landscapes and historic urban landscapes increasingly recognize the need to guide future change rather than simply protecting the fabric of the past Challenging traditional notions of historic preservation *Conserving Cultural Landscapes* takes a dynamic multifaceted approach to conservation It builds on the premise that a successful approach to urban and cultural landscape conservation recognizes cultural as well as natural values sustains traditional connections to place and engages people in stewardship where they live and work It brings together academics within the humanities and humanistic social sciences conservation and preservation professionals practitioners and stakeholders to rethink the meaning and practice of cultural heritage conservation encourage international cooperation and stimulate collaborative research and scholarship

Treatise on Geomorphology ,2013-02-27 The changing focus and approach of geomorphic research suggests that the time is opportune for a summary of the state of discipline The number of peer reviewed papers published in geomorphic journals has grown steadily for more than two decades and more importantly the diversity of authors with respect to geographic location and disciplinary background geography geology ecology civil engineering computer science geographic information science and others has expanded dramatically As more good minds are drawn to geomorphology and the breadth of the peer reviewed literature grows an effective summary of contemporary geomorphic knowledge becomes increasingly difficult The fourteen volumes of this *Treatise on Geomorphology* will provide an important reference for users from undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic Information on the historical development of diverse topics within geomorphology provides context for ongoing research discussion of research strategies equipment and field methods laboratory experiments and numerical simulations reflect the multiple approaches to understanding Earth's surfaces and summaries of outstanding research questions highlight future challenges and suggest productive new avenues for research Our future ability to adapt to geomorphic changes in the critical zone very much hinges upon how well landform scientists

comprehend the dynamics of Earth's diverse surfaces This Treatise on Geomorphology provides a useful synthesis of the state of the discipline as well as highlighting productive research directions that Educators and students researchers will find useful Geomorphology has advanced greatly in the last 10 years to become a very interdisciplinary field Undergraduate students looking for term paper topics to graduate students starting a literature review for their thesis work and professionals seeking a concise summary of a particular topic will find the answers they need in this broad reference work which has been designed and written to accommodate their diverse backgrounds and levels of understanding Editor in Chief Prof J F Shroder of the University of Nebraska at Omaha is past president of the QG G section of the Geological Society of America and present Trustee of the GSA Foundation while being well respected in the geomorphology research community and having won numerous awards in the field A host of noted international geomorphologists have contributed state of the art chapters to the work Readers can be guaranteed that every chapter in this extensive work has been critically reviewed for consistency and accuracy by the World expert Volume Editors and by the Editor in Chief himself No other reference work exists in the area of Geomorphology that offers the breadth and depth of information contained in this 14 volume masterpiece From the foundations and history of geomorphology through to geomorphological innovations and computer modelling and the past and future states of landform science no stone has been left unturned *Himalayan Perceptions: Environmental Change and the Well-being of Mountain Peoples [ENHANCED] (Hardcover)* Jack D. Ives, 2006 *Rivers in the Landscape* Ellen Wohl, 2020-02-10 Rivers are the great shapers of terrestrial landscapes Very few points on Earth above sea level do not lie within a drainage basin Even points distant from the nearest channel are likely to be influenced by that channel Tectonic uplift raises rock thousands of meters above sea level Precipitation falling on the uplifted terrain concentrates into channels that carry sediment downward to the oceans and influence the steepness of adjacent hill slopes by governing the rate at which the landscape incises Rivers migrate laterally across lowlands creating a complex topography of terraces floodplain wetlands and channels Subtle differences in elevation grain size and soil moisture across this topography control the movement of ground water and the distribution of plants and animals Rivers in the Landscape Second Edition emphasizes general principles and conceptual models as well as concrete examples of each topic drawn from the extensive literature on river process and form The book is suitable for use as a course text or a general reference on rivers Aimed at advanced undergraduate students graduate students and professionals looking for a concise summary of physical aspects of rivers Rivers in the Landscape is designed to emphasize the connectivity between rivers and the greater landscape by explicitly considering the interactions between rivers and tectonics climate biota and human activities provide a concise summary of the current state of knowledge for physical process and form in rivers reflect the diversity of river environments from mountainous headwater channels to large lowland floodplain rivers and from the arctic to the tropics reflect the diverse methods that scientists use to characterize and understand river process and form including remote sensing field

measurements physical experiments and numerical simulations reflect the increasing emphasis on quantification in fluvial geomorphology and the study of Earth surfaces in general provide both an introduction to the classic foundational papers on each topic and a guide to the latest particularly insightful and integrative references Flood Evaluation and Dam Safety CIGB ICOLD,2018-08-06 Hydrology and dams are two fields that are obviously closely related Four bulletins have so far been published by the Committee Selection of Design Flood Current methods Dams and Floods Guidelines and cases histories Role of Dams in Flood Mitigation A review and Integrated Flood Management These bulletins have essentially addressed floods the risks they represent and their significance for the concerned populations The present Bulletin deviates slightly from this path adopting a somewhat more technical perspective The text consists of three chapters conceived to be accessible to the practitioners *The Collapse Frequency of Structures* Dirk Proske,2022-05-12 The mathematical verification of the safety of structures can be done by determining the probability of failure or by using safety elements Observed damages and collapses are usually assessed within the framework of expert reports which seems reasonable due to the large number of unique structures in the construction industry However there should also be an examination of observed safety across all structures Therefore in this book the collapse frequencies are determined for different types of structures such as bridges dams tunnels retaining structures and buildings The collapse frequency like the failure probability belongs to stochasticity Therefore the observed mean collapse frequencies and the calculated mean failure probabilities are compared This comparison shows that the collapse frequencies are usually lower than the calculated failure probabilities In addition core damage frequencies and probabilities are given to extend the comparison to another technical product *Mountain Rivers Revisited* Ellen Wohl,2013-05-28 Published by the American Geophysical Union as part of the Water Resources Monograph Series Volume 19 What are the forms and processes characteristic of mountain rivers and how do we know them *Mountain Rivers Revisited* an expanded and updated version of the earlier volume *Mountain Rivers* answers these questions and more Here is the only comprehensive synthesis of current knowledge about mountain rivers available While continuing to focus on physical process and form in mountain rivers the text also addresses the influences of tectonics climate and land use on rivers as well as water chemistry hyporheic exchange and riparian and aquatic ecology With its numerous illustrations and references hydrologists geomorphologists civil and environmental engineers ecologists resource planners and their students will find this book an essential resource Ellen Wohl received her Ph D in geology in 1988 from the University of Arizona Since then she has worked primarily on mountain and bedrock rivers in diverse environments In the Shadow of the Dam Elizabeth M. Sharpe,2007-08-10 Early one May morning in 1874 in the hills above Williamsburg Massachusetts a reservoir dam suddenly burst sending an avalanche of water down a narrow river valley lined with factories and farms In just thirty minutes the Mill River flood left 139 people dead and 740 homeless and a nation wondering how this terrible calamity had happened In this compelling tale of a man made disaster peopled with everyday heroes and arrogant scoundrels Elizabeth Sharpe opens a rare

window into industry and village life in nineteenth century New England a time when dam failures and other industrial accidents were widespread and laws favored factory owners rather than factory workers In the Mill Valley the townsfolk depended upon generally benevolent patriarchs who assured them that the dam was safe when most people could see that it was not The story of the Mill River flood is the story of those townsfolk of George Cheney the dam keeper whose repeated warnings about leaks in the dam had been ignored by the mill owners of his wife Elizabeth who watched in disbelief as the dam burst open from the bottom of Isabella Hayden the mother who saw her young son swept away in the river's torrent and of Fred Howard a box maker who spent the days after the flood searching for bodies burying friends and waiting to see if the button factory he relied upon for his livelihood would be rebuilt It is also the story of the well meaning but overconfident businessmen who built the dam of Onslow Spelman the manufacturer who dismissed the dam keeper's flood warning irrationally insisting that the dam could not break of Lucius Fenn and Joel Bassett the engineer and contractor whose roles in the construction of the dam would be questioned during the public inquest into the causes of the flood of William Skinner the factory owner who struggled to decide whether or not to rebuild his silk factory in the village that bore his name and of many others The flood highlighted class divisions between worker and owner as well as the disorganized state of professional engineering then still in its infancy As the flood exposed the dangers of allowing mill owners who were not trained engineers to design their own dam legislation to regulate the building of reservoir dams in Massachusetts was enacted for the first time Engineers politicians and business owners battled over control of the reform measures to prevent similar tragedies yet saw them continually repeated In the Shadow of the Dam is the story of an event that reshaped a society Told through the eyes of villagers like Collins Graves lauded as a hero for his desperate ride through the valley to warn people of the impending flood and industrialists like Joel Hayden Jr entrusted with the responsibility of disaster relief despite his culpability in failing to maintain the leaking dam In the Shadow of the Dam is a history of our uneasy relationship with industrial progress and a riveting narrative of a tragic disaster in small town Massachusetts **Himalayan Perceptions** Jack Ives, 2004-08-05

Analyzing new research relating to the Himalayan region this text challenges the widely held view from the 1970s and 1980s that the area faced environmental disaster and examines recent social and economic developments relating to the topic

Mountain Rivers Ellen E. Wohl, 2013-04 A comprehensive synthesis of current knowledge on mountain rivers Discussions on fluvial geomorphology and physical processes from the scale of drainage network development to bedload movement complement summaries of mountain river chemistry and ecology Contains chapters on drainage basins channel processes channel biota and human impact Includes bandw photos Of interest to hydrologists geomorphologists civil and environmental engineers and resource planners Wohl has a Ph D in geology and has done extensive fieldwork in North America Asia and Australia Annotation copyrighted by Book News Inc Portland OR **Riparian Areas** National Research Council, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Water Science and Technology Board, Committee on

Riparian Zone Functioning and Strategies for Management, 2002-09-10 The Clean Water Act CWA requires that wetlands be protected from degradation because of their important ecological functions including maintenance of high water quality and provision of fish and wildlife habitat However this protection generally does not encompass riparian areas the lands bordering rivers and lakes even though they often provide the same functions as wetlands Growing recognition of the similarities in wetland and riparian area functioning and the differences in their legal protection led the NRC in 1999 to undertake a study of riparian areas which has culminated in Riparian Areas Functioning and Strategies for Management The report is intended to heighten awareness of riparian areas commensurate with their ecological and societal values The primary conclusion is that because riparian areas perform a disproportionate number of biological and physical functions on a unit area basis restoration of riparian functions along America's waterbodies should be a national goal

Whispering the Secrets of Language: An Emotional Journey through **Inland Flood Hazards Human Riparian And Aquatic Communities**

In a digitally-driven world wherever screens reign great and quick communication drowns out the subtleties of language, the profound strategies and psychological subtleties concealed within words often move unheard. Yet, situated within the pages of **Inland Flood Hazards Human Riparian And Aquatic Communities** a fascinating fictional treasure pulsing with organic emotions, lies an extraordinary journey waiting to be undertaken. Published by a skilled wordsmith, that marvelous opus encourages visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very cloth of every word. Within the mental depths with this emotional evaluation, we can embark upon a honest exploration of the book is primary subjects, dissect their fascinating writing design, and yield to the powerful resonance it evokes deep within the recesses of readers hearts.

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