



The Hidden Costs of Coastal Hazards

IMPLICATIONS FOR
RISK ASSESSMENT
and MITIGATION

**The H. John Heinz III Center
for Science, Economics and the Environment**

FOREWORD BY GILBERT F. WHITE

Hidden Costs Of Coastal Hazards

John C. Pine



Hidden Costs Of Coastal Hazards:

The Hidden Costs of Coastal Hazards H. John Heinz III Center for Science, Economics, and the Environment. Panel on Risk, Vulnerability, and the True Costs of Coastal Hazards, The H. John Heinz III Center for Science, Economics, and the Environment, 2000 The book presents an in depth study that considers the costs of coastal hazards to natural resources social institutions business and the built environment *Uncovering the Hidden Costs of Coastal Hazards* Sarah Baish, Sheila D. David, Betty Hearn Morrow, 1999

The Hidden Costs of Coastal Hazards H. John Heinz III Center for Science, Economics, and the Environment. Panel on Risk, Vulnerability, and the True Costs of Coastal Hazards, The H. John Heinz III Center for Science, Economics, and the Environment, 2000 Society has limited hazard mitigation dollars to invest Which actions will be most cost effective considering the true range of impacts and costs incurred In 1997 the H John Heinz III Center for Science Economics and the Environment began a two year study with a panel of experts to help develop new strategies to identify and reduce the costs of weather related hazards associated with rapidly increasing coastal development activities The Hidden Costs of Coastal Hazards presents the panel s findings offering the first in depth study that considers the costs of coastal hazards to natural resources social institutions business and the built environment Using Hurricane Hugo which struck South Carolina in 1989 as a case study it provides for the first time information on the full range of economic costs caused by a major coastal hazard event The book describes and examines unreported undocumented and hidden costs such as losses due to business interruption reduction in property values interruption of social services psychological trauma damage to natural systems and others examines the concepts of risk and vulnerability and discusses conventional approaches to risk assessment and the emerging area of vulnerability assessment recommends a comprehensive framework for developing and implementing mitigation strategies documents the human impact of Hurricane Hugo and provides insight from those who lived through it The Hidden Costs of Coastal Hazards takes a structured approach to the problem of coastal hazards offering a new framework for community based hazard mitigation along with specific recommendations for implementation Decisionmakers both policymakers and planners who are interested in coastal hazard issues will find the book a unique source of new information and insight as will private sector decisionmakers including lenders investors developers and insurers of coastal property

Coastal Hazard Management Norbert P. Psuty, Douglas D. Ofiara, 2002 As with most shorelines around the world New Jersey beaches are slowly but inexorably being eroded threatening coastal structures and development In some years more sand is deposited than removed but all of the state s monitoring devices show that sea level is gradually rising and pushing the New Jersey shoreline inland The shore is a valuable resource and its natural cultural and economic attractions draw a multitude of permanent and temporary residents each year extending housing and commercial development onto areas that were once swampland Not surprisingly development at the water s edge has been accompanied by an increasing exposure to the natural hazards of the coastal zone erosion flooding and wind

damage In this book Norbert Psuty and Douglas Ofiara incorporate perspectives from the areas of coastal sciences economics public policy and land use planning in creating a systematic plan for coastal management and protection It has been more than a decade since New Jersey developed the nation s first state shore protection plan and this volume provides a timely evaluation of its achievements and future challenges This self contained book provides all of the relevant theories models and examples so the reader will not need to refer to any other literature to gain an understanding of the issues and policies surrounding shore protection It is the authoritative handbook for practitioners and policy makers in many fields including coastal science and management and engineering as well as public policy and economics [Design Of Coastal Hazard Mitigation Alternatives For Rising Seas](#) David Basco,2020-07-02 This timely book is about how to design alternatives to reduce coastal flood and wave damage erosion and loss of ecosystems facing an unknown future of sea level rise The latest theories are interlaced with applied examples from the authors 48 years of experience in teaching research and as a practicing professional engineer in coastal engineering The design process takes into consideration all the design constraints scientific engineering economic environmental social political institutional aesthetic and media to meet today s client needs expectations and budgets for an uncertain future The book is organized as a textbook for graduate students And it is a self contained reference for government and consulting engineers responsible for finding solutions to coastal hazards facing the world s coastal populations New solutions are included in the book that help people of all socio economic levels living at the coast Both risk reduction metrics quantified in monetary terms and increased resilience metrics quantified as vulnerability reduction must now be taken into consideration to make equitable design decisions on hazard mitigation alternatives In the Anthropocene Era under deep uncertainty in global mean sea level predictions for the future today s designs must mitigate today s storm damages and be adaptable for the unpredictable water levels and storms of the future This book includes a design philosophy for water levels to year 2050 and for the long term from 2050 to 2100 Multiple spreadsheets are provided and organized to aid the design process This is an exciting time to be thinkers as Civil Coastal engineers Related Link s

Hazard Mitigation and Preparedness Dylan Sandler,Anna K. Schwab,David J. Brower,2016-08-05 This book introduces the concept of hazards as part of the earth s natural systems in contrast to disasters which occur at the intersection of the built and natural environments It emphasizes choices made by society that either increase or diminish our level of vulnerability to the impacts of hazards and the role of the emergency manager in how these choices are made and acted upon The book defines key concepts including mitigation preparedness resilience vulnerability and explains the role of the emergency manager in putting these principles into practice [Hazards Vulnerability and Environmental Justice](#) Susan L. Cutter,2012-05-04 From Hurricane Katrina and the south Asian tsunami to human induced atrocities terrorist attacks and the looming effects of climate change the world is assailed by both natural and unnatural hazards and disasters These expose not only human vulnerability particularly that of the poorest who are least able to respond and adapt but also the profound

worldwide environmental injustices that result from the geographical distribution of risks hazards and disasters This collection of essays from one of the most renowned and experienced experts provides a timely assessment of these critical themes Presenting the top selections from Susan L Cutter s thirty years of scholarship on hazards vulnerability and environmental justice the volume tackles issues such as nuclear and toxic hazards risk assessment communication and planning and societal responses Cutter maps out the terrain and draws out the salient themes with a fresh powerful introduction written in the wake of her work in the aftermath of Katrina This essential collection is ideal for professionals researchers academics and students working on hazards risk disasters and environmental justice across a range of disciplines

The Impacts of Natural Disasters National Research Council,Division on Earth and Life Studies,Commission on Geosciences, Environment and Resources,Committee on Assessing the Costs of Natural Disasters,1999-05-06 We in the United States have almost come to accept natural disasters as part of our nation s social fabric News of property damage economic and social disruption and injuries follow earthquakes fires floods and hurricanes Surprisingly however the total losses that follow these natural disasters are not consistently calculated We have no formal system in either the public or private sector for compiling this information The National Academies recommends what types of data should be assembled and tracked

Hazards Analysis John C. Pine,2014-09-10 The impacts of natural and man made disasters have increased exponentially over the past few decades Moreover with our global interconnectedness and the growing scale of disasters today s catastrophic disasters can have regional national and even global economic consequences Following in the tradition of the successful first edition Hazards Analysis Reducing the Impact of Disasters Second Edition provides a structure and process for understanding the nature of natural and human caused disasters Stressing the role of hazard risk management for public private and nonprofit organizations the author and expert contributors cover problem solving risk analysis and risk communications to ensure readers are in a position to identify key problems associated with hazards and the risks that they present The book details a systematic process of hazards identification vulnerability determination and consequence assessment for the natural built and human environment Using a cross disciplinary approach this book effectively demonstrates how to use the results of vulnerability assessment spatial analysis and community planning to reduce adverse disaster outcomes and foster social economic and environmental sustainability Throughout the book stresses that hazards analysis is not an isolated process but one that must engage the local community Complete with clearly set objectives key terms discussion questions satellite images and maps and ancillary websites for further study this authoritative guide covers every element of the hazard analysis process in a step by step format Hazards Analysis presents time proven strategies for building sustainable communities identifying and prioritizing risks and establishing successful disaster prevention and relief strategies prior to a disaster

Department of Homeland Security Bioterrorism Risk Assessment National Research Council,Division on Earth and Life Studies,Board on Life Sciences,Division on Engineering

and Physical Sciences, Board on Mathematical Sciences and Their Applications, Committee on Methodological Improvements to the Department of Homeland Security's Biological Agent Risk Analysis, 2009-01-03 The mission of Department of Homeland Security Bioterrorism Risk Assessment A Call for Change the book published in December 2008 is to independently and scientifically review the methodology that led to the 2006 Department of Homeland Security report Bioterrorism Risk Assessment BTRA and provide a foundation for future updates This book identifies a number of fundamental concerns with the BTRA of 2006 ranging from mathematical and statistical mistakes that have corrupted results to unnecessarily complicated probability models and models with fidelity far exceeding existing data to more basic questions about how terrorist behavior should be modeled Rather than merely criticizing what was done in the BTRA of 2006 this new NRC book consults outside experts and collects a number of proposed alternatives that could improve DHS's ability to assess potential terrorist behavior as a key element of risk informed decision making and it explains these alternatives in the specific context of the BTRA and the bioterrorism threat Catastrophe Modeling Patricia Grossi, Howard Kunreuther, Chandu C. Patel, 2005-02-07 Based on the research that has been conducted at Wharton Risk Management Center over the past five years on catastrophic risk Covers a hot topic in the light of recent terroristic activities and nature catastrophes Develops risk management strategies for reducing and spreading the losses from future disasters Provides glossary of definitions and terms used throughout the book *Disaster Resilience* National Academies, Policy and Global Affairs, Committee on Science, Engineering, and Public Policy, Committee on Increasing National Resilience to Hazards and Disasters, 2012-11-29 No person or place is immune from disasters or disaster related losses Infectious disease outbreaks acts of terrorism social unrest or financial disasters in addition to natural hazards can all lead to large scale consequences for the nation and its communities Communities and the nation thus face difficult fiscal social cultural and environmental choices about the best ways to ensure basic security and quality of life against hazards deliberate attacks and disasters Beyond the unquantifiable costs of injury and loss of life from disasters statistics for 2011 alone indicate economic damages from natural disasters in the United States exceeded 55 billion with 14 events costing more than a billion dollars in damages each One way to reduce the impacts of disasters on the nation and its communities is to invest in enhancing resilience the ability to prepare and plan for absorb recover from and more successfully adapt to adverse events Disaster Resilience A National Imperative addresses the broad issue of increasing the nation's resilience to disasters This book defines national resilience describes the state of knowledge about resilience to hazards and disasters and frames the main issues related to increasing resilience in the United States It also provides goals baseline conditions or performance metrics for national resilience and outlines additional information data gaps and or obstacles that need to be addressed to increase the nation's resilience to disasters Additionally the book's authoring committee makes recommendations about the necessary approaches to elevate national resilience to disasters in the United States Enhanced resilience allows better anticipation of disasters and better

planning to reduce disaster losses rather than waiting for an event to occur and paying for it afterward Disaster Resilience confronts the topic of how to increase the nation's resilience to disasters through a vision of the characteristics of a resilient nation in the year 2030 Increasing disaster resilience is an imperative that requires the collective will of the nation and its communities Although disasters will continue to occur actions that move the nation from reactive approaches to disasters to a proactive stance where communities actively engage in enhancing resilience will reduce many of the broad societal and economic burdens that disasters can cause *On Risk and Disaster* Ronald J. Daniels, Donald F. Kettl, Howard Kunreuther, 2011-06-07 Named one of Planetizen's Top 10 Books of 2006 Hurricane Katrina not only devastated a large area of the nation's Gulf coast it also raised fundamental questions about ways the nation can and should deal with the inevitable problems of economic risk and social responsibility This volume gathers leading experts to examine lessons that Hurricane Katrina teaches us about better assessing perceiving and managing risks from future disasters In the years ahead we will inevitably face more problems like those caused by Katrina from fire earthquake or even a flu pandemic America remains in the cross hairs of terrorists while policy makers continue to grapple with important environmental and health risks Each of these scenarios might in itself be relatively unlikely to occur But it is statistically certain that we will confront such catastrophes or perhaps one we have never imagined and the nation and its citizenry must be prepared to act That is the fundamental lesson of Katrina The 20 contributors to this volume address questions of public and private roles in assessing managing and dealing with risk in American society and suggest strategies for moving ahead in rebuilding the Gulf coast Contributors Matthew Adler Vicki Bier Baruch Fischhoff Kenneth R Foster Robert Giegengack Peter Gosselin Scott E Harrington Carolyn Kousky Robert Meyer Harvey G Ryland Brian L Strom Kathleen Tierney Michael J Trebilcock Detlof von Winterfeldt Jonathan Walters Richard J Zeckhauser Impacts of natural disasters on supply chain performance Burkhardt, Mariana, 2021-02-16 Considering the increasing importance of natural disaster events it is inevitable to also focus on their impacts on supply chains as well as their performance impacts on them The developed approach SCperformND Supply Chain performance impact assessment of Natural Disasters demonstrates a methodology to assess those impacts and gives implications for supply chain designs and procurement decisions At Risk Piers Blaikie, Terry Cannon, Ian Davis, Ben Wisner, 2014-01-21 The term natural disaster is often used to refer to natural events such as earthquakes hurricanes or floods However the phrase natural disaster suggests an uncritical acceptance of a deeply engrained ideological and cultural myth At Risk questions this myth and argues that extreme natural events are not disasters until a vulnerable group of people is exposed The updated new edition confronts a further ten years of ever more expensive and deadly disasters and discusses disaster not as an aberration but as a signal failure of mainstream development Two analytical models are provided as tools for understanding vulnerability One links remote and distant root causes to unsafe conditions in a progression of vulnerability The other uses the concepts of access and livelihood to understand why some households are more vulnerable

than others Examining key natural events and incorporating strategies to create a safer world this revised edition is an important resource for those involved in the fields of environment and development studies *Social Issues in America* James Ciment,2015-03-04 More than 150 key social issues confronting the United States today are covered in this eight volume set from abortion and adoption to capital punishment and corporate crime from obesity and organized crime to sweatshops and xenophobia *Encyclopedia of Coastal Science* M. Schwartz,2006-11-08 Honorable Mention Award for Excellence in Scholarly and Professional Publishing Maurice Schwartz Editor of the much acclaimed Encyclopedia of Beaches and Coastal Environments Hutchinson Ross 1982 has now brought forth a new volume with a fresh interdisciplinary approach that includes geomorphology ecology engineering technology oceanography and human activities as they relate to coasts Within its covers the Encyclopedia of Coastal Science includes many aspects of the coastal sciences that are only to be found scattered among scientific literature Being broadly interdisciplinary in its treatment of coasts the Encyclopedia of Coastal Science features contributions by 245 well known international specialists in their respective fields and is abundantly illustrated with line drawings and photographs Not only does this volume offer an extensive number of entries it also includes various appendices an illustrated glossary of coastal geomorphology and extensive bibliographic listings This Encyclopedia thus provides a comprehensive reference work for students professionals as well as informed lay readers **Social Vulnerability to Disasters** Deborah S.K. Thomas,Brenda D. Phillips,Alice Fothergill,Lynn Blinn-Pike,2009-08-10 In recent years the world has watched in horror as tsunamis earthquakes and hurricanes have wrought havoc across countries and continents While these events have different circumstances they share a common factor the overwhelming majority of victims are women children elderly disadvantaged or disabled Evidence gathered from these events **Social Vulnerability to Disasters, Second Edition** Deborah S.K. Thomas,Brenda D. Phillips,William E. Lovekamp,Alice Fothergill,2013-05-09 The 2010 Haiti and Chili earthquakes the 2010 BP oil spill in the Gulf of Mexico and the 2011 Fukushima earthquake and tsunami in Japan are but a few examples of recent catastrophic events that continue to reveal how social structure and roles produce extensive human suffering and differential impacts on individuals and communities These events bring social vulnerability to the forefront in considering how disasters unfold clearly revealing that disasters are not created from the physical event alone Equally important people even those considered vulnerable respond in innovative and resilient ways that unveil the strength of human ingenuity and spirit It is not a foregone conclusion that a hazard event even a large one will result in catastrophic loss This updated second edition of Social Vulnerability to Disasters focuses on the social construction of disasters demonstrating how the characteristics of an event are not the only reason that tragedies unfurl By carefully examining and documenting social vulnerabilities throughout the disaster management cycle the book remains essential to emergency management professionals the independent volunteer sector homeland security and related social science fields including public policy sociology geography political science urban and regional planning and public health The new edition

is fully updated more international in scope and incorporates significant recent disaster events It also includes new case studies to illustrate important concepts By understanding the nuances of social vulnerability and how these vulnerabilities compound one another we can take steps to reduce the danger to at risk populations and strengthen community resilience overall Features and Highlights from the Second Edition Contains contributions from leading scholars professionals and academics who draw on their areas of expertise to examine vulnerable populations Incorporates disaster case studies to illustrate concepts relevant and seminal literature and the most recent data available In addition to highlighting the U S context integrates a global approach and includes numerous international case studies Highlights recent policy changes and current disaster management approaches Infuses the concept of community resilience and building capacity throughout the text Includes new chapters that incorporate additional perspectives on social vulnerability Instructor s guide PowerPoint slides and test bank available with qualifying course adoption

Sea Level Rise Bruce Douglas, Mark T Kearney, Stephen P. Leatherman, 2000-10-05 Sea Level Rise History and Consequences includes a special emphasis on the evidence for historical sea level change case studies are used to demonstrate the resulting consequences A CD ROM is included which contain tide gauge data and trends of relative sea level from the Permanent Service for Mean Sea Level The material on the CD ROM is either in the form of text files or web sites that can be opened by widely available web browsers Sea level is expected to rise as much as 60 100 centimeters over the next century due to greenhouse induced global warming or at least that is what the some scientists predict However the concept of sea level is extremely complex which makes the prediction of sea level rise anything but certain The reviewers are in consensus in enthusiastically endorsing this comprehensive book and CD ROM treatment This book will be a comprehensive review of the subject using the data themselves on CD ROM to illustrate the principles involved rather than detailed mathematical treatments The book should be readily accessible to upper division and first year graduate students in the environmental sciences geography geology and other interdisciplinary fields Four pages up to 16 pages of color in the printed text The book will have wide appeal It will be read by geologists geophysicists climatologists oceanographers meteorologists environmental scientists geomorphologists coastal engineers and policy makers in all of these fields

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