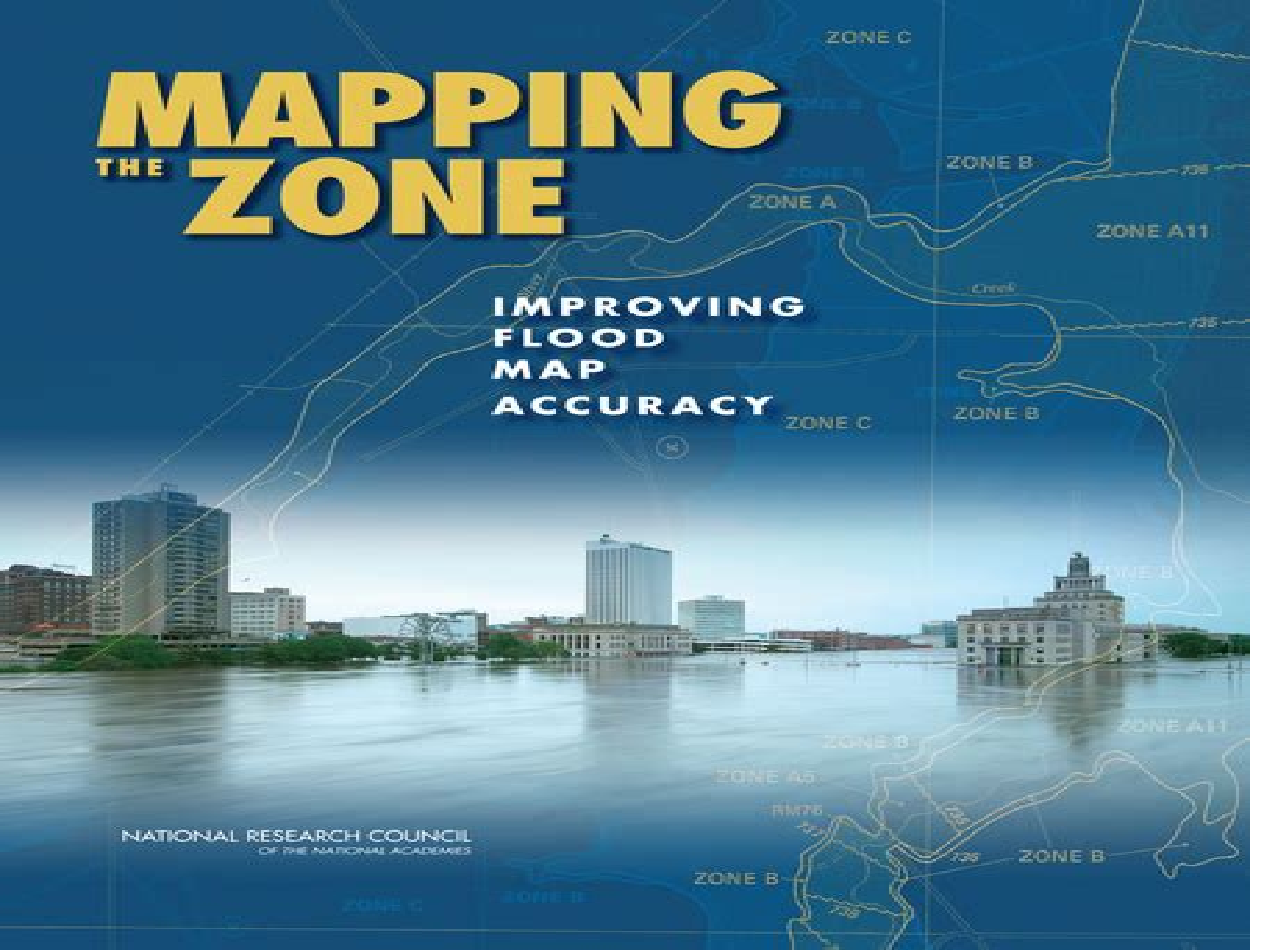


MAPPING THE ZONE

IMPROVING
FLOOD
MAP
ACCURACY

NATIONAL RESEARCH COUNCIL
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Mapping The Zone Improving Flood Map Accuracy

Peter Folger



Mapping The Zone Improving Flood Map Accuracy:

Mapping the Zone National Research Council, Water Science and Technology Board, Board on Earth Sciences and Resources/Mapping Science Committee, Committee on FEMA Flood Maps, 2009-05-15 Federal Emergency Management Agency FEMA Flood Insurance Rate Maps portray the height and extent to which flooding is expected to occur and they form the basis for setting flood insurance premiums and regulating development in the floodplain As such they are an important tool for individuals businesses communities and government agencies to understand and deal with flood hazard and flood risk Improving map accuracy is therefore not an academic question better maps help everyone Making and maintaining an accurate flood map is neither simple nor inexpensive Even after an investment of more than 1 billion to take flood maps into the digital world only 21 percent of the population has maps that meet or exceed national flood hazard data quality thresholds Even when floodplains are mapped with high accuracy land development and natural changes to the landscape or hydrologic systems create the need for continuous map maintenance and updates Mapping the Zone examines the factors that affect flood map accuracy assesses the benefits and costs of more accurate flood maps and recommends ways to improve flood mapping communication and management of flood related data *FEMA Flood Maps: Some Standards and Processes in Place to Promote Map Accuracy and Outreach, but Opportunities Exist to Address Implementation Challenges*, Flood Preparedness and Mitigation United States. Congress. Senate. Committee on Homeland Security and Governmental Affairs. Ad Hoc Subcommittee on Disaster Recovery, 2011 *Issues and Challenges for Federal Geospatial Information* Peter Folger, 2011-05-11 The report discusses issues that may be of interest to Congress managing sharing and coordinating geospatial information and includes examples of legislation The report also summarizes a diverse set of recommendations and proposals from different non governmental organizations for how to improve the coordination and management of geospatial information at the federal and state levels **Geospatial Information and Geographic Information Systems (GIS)** Peter Folger, 2010-11 Discusses geospatial info GI which is data referenced to a place a set of geographic coordinates which can be gathered manipulated and displayed in real time A Geographic Info System is a computer system capable of capturing storing analyzing and displaying geographically referenced info In 1990 the Fed Geographic Data Comm FGDC was estab to promote the use sharing and dissemination of GI There are questions about FGDC fulfilling its mission Has this organizational structure worked Can the fed gov t account for the costs of acquiring coordinating and managing GI How well is the fed gov t coordinating with the state and local entities that have an increasing stake in GI What is the role of the private sector *Levees and the National Flood Insurance Program* National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Levees and the National Flood Insurance Program: Improving Policies and Practices, 2013-08-18 The Federal Emergency Management Agency s FEMA Federal Insurance and Mitigation Administration FIMA manages the National Flood Insurance Program NFIP which is a cornerstone in the U S strategy to

assist communities to prepare for mitigate against and recover from flood disasters The NFIP was established by Congress with passage of the National Flood Insurance Act in 1968 to help reduce future flood damages through NFIP community floodplain regulation that would control development in flood hazard areas provide insurance for a premium to property owners and reduce federal expenditures for disaster assistance The flood insurance is available only to owners of insurable property located in communities that participate in the NFIP Currently the program has 5 555 915 million policies in 21 881 communities³ across the United States The NFIP defines the one percent annual chance flood 100 year or base flood floodplain as a Special Flood Hazard Area SFHA The SFHA is delineated on FEMA s Flood Insurance Rate Maps FIRM s using topographic meteorologic hydrologic and hydraulic information Property owners with a federally back mortgage within the SFHAs are required to purchase and retain flood insurance called the mandatory flood insurance purchase requirement MPR Levees and floodwalls hereafter referred to as levees have been part of flood management in the United States since the late 1700 s because they are relatively easy to build and a reasonable infrastructure investment A levee is a man made structure usually an earthen embankment designed and constructed in accordance with sound engineering practices to contain control or divert the flow of water so as to provide protection from temporary flooding A levee system is a flood protection system which consists of a levee or levees and associated structures such as closure and drainage devices which are constructed and operated in accordance with sound engineering practices Recognizing the need for improving the NFIP s treatment of levees FEMA officials approached the National Research Council s NRC Water Science and Technology Board WSTB and requested this study The NRC responded by forming the ad hoc Committee on Levee and the National Flood Insurance Program Improving Policies and Practices charged to examine current FEMA treatment of levees within the NFIP and provide advice on how those levee elated policies and activities could be improved The study addressed four broad areas risk analysis flood insurance risk reduction and risk communication regarding how levees are considered in the NFIP Specific issues within these areas include current risk analysis and mapping procedures behind accredited and non accredited levees flood insurance pricing and the mandatory flood insurance purchase requirement mitigation options to reduce risk for communities with levees flood risk communication efforts and the concept of shared responsibility The principal conclusions and recommendations are highlighted in this report Technical Communication for Environmental Action Sean D. Williams, 2023-01-01 Climate change is one of the most significant challenges facing the global community in the twenty first century With its position at the border of people technology science and communication technical communication has a significant role to play in helping to solve these complex environmental problems This collection of essays engages scholars and practitioners in a conversation about how the field has contributed to pragmatic and democratic action to address climate change Compared to most prior work which offers theoretical perspectives of environmental communication this collection explores the actual practice of international technical communicators who participate in government projects

corporate processes nonprofit programs and international agency work demonstrating how technical communication theories such as participatory design social justice and ethics can help shape pragmatic environmental action

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Flood Recovery, Innovation and Response IV D. Proverbs, C. A. Brebbia, 2014-06-18 Flooding is a global phenomenon that claims numerous lives worldwide each year Set up to promote research into this area of study this book contains the proceedings of the 4th International Conference on Flood Recovery Innovation and Response When flooding occurs in populated areas it can cause substantial damage to property as well as threatening human life In addition many more people must endure the homelessness upset and disruption that are left in the wake of floods The increased frequency of flooding in the last few years coupled with climate change predictions and urban development suggest that these statistics are set to worsen in the future Apart from the physical damage to buildings contents and loss of life which are the most obvious impacts of floods upon households other more indirect losses are often overlooked These indirect and intangible impacts are generally associated with disruption to normal life as well as longer term health issues including stress related illness Flooding represents a major barrier to the alleviation of poverty in many parts of the developing world where vulnerable communities are often exposed to sudden and life threatening events This book covers a wide range of technical and management topics related to flooding and its impacts on communities property and people These include Flood Modelling Risk Assessment Flood Management Considering Blue Green Approaches to Flood Risk Management Property level Flooding and Health Consequences State of the art Flooding damage Survey and Assessment Emergency Preparedness and Response Adaptation to Flood Risk

Interdisciplinary Collaboration for Water Diplomacy Shafiqul Islam, Kevin M. Smith, 2019-11-22 This book introduces the concept of Water Diplomacy as a principled and pragmatic approach to problem driven interdisciplinary collaboration which has been developed as a response to pressing contemporary water challenges arising from the coupling of natural and human systems The findings of the book are the result of a decade long interdisciplinary experiment in conceiving developing and implementing an interdisciplinary graduate program on Water Diplomacy at Tufts University USA This has led to the development of the Water Diplomacy Framework a shared framework for understanding diagnosing and communicating about complex water issues across disciplinary boundaries This framework clarifies important distinctions between water systems simple complicated or complex and the attributes that these distinctions imply for how these problems can be addressed In this book the focus is on complex water issues and how they require a problem driven rather than a theory driven approach to interdisciplinary collaboration

Moreover it is argued that conception of interdisciplinarity needs to go beyond collaboration among experts because complex water problems demand inclusive stakeholder engagement such as in fact value deliberation joint fact finding collective decision making and adaptive management Water professionals working in such environments need to operate with both principles and pragmatism in order to achieve actionable sustainable and equitable outcomes This book explores these ideas in more detail and demonstrates their efficacy through a diverse range of case studies Reflections on the program are also included from conceptualization through implementation and evaluation This book offers critical lessons and case studies for researchers and practitioners working on complex water issues as well as important lessons for those looking to initiate implement or evaluate interdisciplinary programs to address other complex problems in any setting

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 provide 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

Tying Flood Insurance to Flood Risk for Low-Lying Structures in the Floodplain National Research Council,Division on Engineering and Physical Sciences,Board

on Mathematical Sciences and Their Applications, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Risk-Based Methods for Insurance Premiums of Negatively Elevated Structures in the National Flood Insurance Program, 2015-08-03 Floods take a heavy toll on society costing lives damaging buildings and property disrupting livelihoods and sometimes necessitating federal disaster relief which has risen to record levels in recent years The National Flood Insurance Program NFIP was created in 1968 to reduce the flood risk to individuals and their reliance on federal disaster relief by making federal flood insurance available to residents and businesses if their community adopted floodplain management ordinances and minimum standards for new construction in flood prone areas Insurance rates for structures built after a flood plain map was adopted by the community were intended to reflect the actual risk of flooding taking into account the likelihood of inundation the elevation of the structure and the relationship of inundation to damage to the structure Today rates are subsidized for one fifth of the NFIP's \$5.5 million policies Most of these structures are negatively elevated that is the elevation of the lowest floor is lower than the NFIP construction standard Compared to structures built above the base flood elevation negatively elevated structures are more likely to incur a loss because they are inundated more frequently and the depths and durations of inundation are greater Tying Flood Insurance to Flood Risk for Low Lying Structures in the Floodplain studies the pricing of negatively elevated structures in the NFIP This report reviews current NFIP methods for calculating risk based premiums for these structures including risk analysis flood maps and engineering data The report then evaluates alternative approaches for calculating risk based premiums and discusses engineering hydrologic and property assessment data needs to implement full risk based premiums The findings and conclusions of this report will help to improve the accuracy and precision of loss estimates for negatively elevated structures which in turn will increase the credibility fairness and transparency of premiums for policyholders

New England Law Review: Volume 48, Number 1 - Fall 2013 New England Law Review, 2014-03-18 The New England Law Review now offers its issues in convenient and modern ebook formats for e reader devices apps pads smartphones and computers This first issue of Volume 48 Fall 2013 was published in 2014 and contains articles and presentations from leading figures of the academy the judiciary and the legal community Contents of this issue include Commencement Address at New England Law Boston May 24 2013 by U S Attorney Carmen M Ortiz Articles Creamskimming and Competition by Jim Chen Give Me That Old Time Religion The Persistence of the Webster Reasonable Doubt Instruction and the Need to Abandon It by Hon Richard E Welch III Standing Up to Clapper How to Increase Transparency and Oversight of FISA Surveillance by Alan Butler Notes Avoiding Unintended House Boats Towards Sensible Coastal Land Use Policy in Massachusetts by Keith Richard The Moral Judiciary Restoring Morality as a Basis of Judicial Decision Making by Erik Hagen Tales of the Dead Why Autopsy Reports Should Be Classified as Testimonial Statements Under the Confrontation Clause by Andrew Higley Comments Putting Beer Goggles on the Jury Rape Intoxication and the Reasonable Man in Commonwealth v Mountry by Annalise H Scobey A Government of the People by the People for

Whom How In re Enforcement of a Subpoena Ensures that the Judiciary Is Unaccountable by Lindsay Bohan **Framing the Challenge of Urban Flooding in the United States** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Water Science and Technology Board, Policy and Global Affairs, Program on Risk, Resilience, and Extreme Events, Committee on Urban Flooding in the United States, 2019-04-29 Flooding is the natural hazard with the greatest economic and social impact in the United States and these impacts are becoming more severe over time Catastrophic flooding from recent hurricanes including Superstorm Sandy in New York 2012 and Hurricane Harvey in Houston 2017 caused billions of dollars in property damage adversely affected millions of people and damaged the economic well being of major metropolitan areas Flooding takes a heavy toll even in years without a named storm or event Major freshwater flood events from 2004 to 2014 cost an average of 9 billion in direct damage and 71 lives annually These figures do not include the cumulative costs of frequent small floods which can be similar to those of infrequent extreme floods Framing the Challenge of Urban Flooding in the United States contributes to existing knowledge by examining real world examples in specific metropolitan areas This report identifies commonalities and variances among the case study metropolitan areas in terms of causes adverse impacts unexpected problems in recovery or effective mitigation strategies as well as key themes of urban flooding It also relates as appropriate causes and actions of urban flooding to existing federal resources or policies **Affordability of National Flood Insurance Program Premiums** National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Division on Engineering and Physical Sciences, Board on Mathematical Sciences and Their Applications, Division on Earth and Life Studies, Water Science and Technology Board, Committee on the Affordability of National Flood Insurance Program Premiums, 2015-08-06 The National Flood Insurance Program NFIP is housed within the Federal Emergency Management Agency FEMA and offers insurance policies that are marketed and sold through private insurers but with the risks borne by the U S federal government NFIP s primary goals are to ensure affordable insurance premiums secure widespread community participation in the program and earn premium and fee income that covers claims paid and program expenses over time In July 2012 the U S Congress passed the Biggert Waters Flood Insurance Reform and Modernization Act Biggert Waters 2012 designed to move toward an insurance program with NFIP risk based premiums that better reflected expected losses from floods at insured properties This eliminated policies priced at what the NFIP called pre FIRM subsidized and grandfathered As Biggert Waters 2012 went into effect constituents from multiple communities expressed concerns about the elimination of lower rate classes arguing that it created a financial burden on policy holders In response to these concerns Congress passed The Homeowner Flood Insurance Affordability Act of 2014 HFIAA 2014 The 2014 legislation changed the process by which pre FIRM subsidized premiums for primary residences would be removed and reinstated grandfathering As part of that legislation FEMA must report back to Congress with a draft affordability framework Affordability of National Flood Insurance

Program Premiums Report 1 is the first part of a two part study to provide input as FEMA prepares their draft affordability framework This report discusses the underlying definitions and methods for an affordability framework and the affordability concept and applications Affordability of National Flood Insurance Program Premiums gives an overview of the demand for insurance and the history of the NFIP premium setting The report then describes alternatives for determining when the premium increases resulting from Biggert Waters 2012 would make flood insurance unaffordable Structures of Coastal Resilience Catherine Seavitt Nordenson, Guy Nordenson, Julia Chapman, 2018-06-21 Front Cover Title Page Half Title Copyright Contents Foreword by Michael Kimmelman architecture critic The New York Times Acknowledgments Chapter 1 Designing for Coastal Resiliency Chapter 2 Visualizing the Coast Chapter 3 Reimagining the Floodplain Chapter 4 Mapping Coastal Futures Chapter 5 Centennial Projections Afterword by Jeffrey P Hebert vice president for adaptation and resilience The Water Institute of the Gulf Endnotes Glossary Index *Research Handbook on the Economics of Insurance Law* Daniel Schwarcz, Peter Siegelman, 2015-08-28 The fields of insurance law and insurance economics have long and distinguished scholarly histories but participants in the two disciplines have not always communicated well across academic silos This Handbook encourages more policy relevant insurance e *Climate Change Adaptation in Eastern Europe* Walter Leal Filho, Goran Trbic, Dejan Filipovic, 2018-12-15 This book focuses on managing risks and building resilience to climate change showcasing experiences from research field projects and best practices to foster climate change adaptation in Eastern Europe that can be implemented elsewhere Climate change affects countries in Eastern Europe i e the Western Balkans and Southeast Europe in a variety of ways Apart from severe floods there are reports of decreasing water reserves in the southern regions and of gradual changes in biodiversity and agricultural production In the South Caucasus area for instance climate change models project a decline in precipitation and suggest that it will continue to become drier this century Many Eastern European countries especially the non EU ones have weak national climate policies and transboundary collaborations as well as limited public engagement in matters related to climate change As a result climate change poses a serious threat to their economic stability and development and to the sustainable development of the region The above state of affairs illustrates the need for a better understanding of how climate change influences Eastern Europe and for the identification of processes methods and tools that may help the countries and the communities in the region to adapt There is also a perceived need to showcase successful examples of how to cope with the social economic and political problems posed by floods droughts in the region especially ways of increasing the resilience of agriculture systems and of communities Addressing this need the book presents papers written by scholars social practitioners and members of government agencies involved in research and or climate change projects in Eastern Europe *Coastal Hazards* Charles W. Finkl, 2012-12-11 This book covers the gamut of coastal hazards that result from short term low frequency events and have high magnitude and far reaching impacts on coastal zones the world over Much of the world s population now lives in low lying coastal zones that are

inherently vulnerable to natural hazards such as flooding from hurricanes tropical storms and northeastern storm surges shoreline beach and dune erosion cliff and bluff failures and saltwater intrusion in coastal aquifers used for drinking water supplies In addition to the usual range of hydrometeorological disasters in coastal zones this book covers tsunami impacts and warning systems as well as global perspectives of sea level rise impacts and human perceptions of potential vulnerabilities resulting from rip currents that cause many drownings each year on beaches Today the use of numerical models that help predict vulnerabilities and provide a basis for shore protection measures is important in modern scientific and engineering systems Final considerations focus on human actions in the form of the urbanization and industrialization of the coast shore protection measures and indicate how environmental degradation around coastal conurbations exacerbates the potential for unwanted impacts Strategies for environmental management in coastal zones from low lying wetlands to high cliffs and rocky promontories are highlighted as a means of living in harmony with Nature and not trying to conquer it

Adapting to the Impacts of Climate Change National Research Council, Division on Earth and Life Studies, Board on Atmospheric Sciences and Climate, America's Climate Choices: Panel on Adapting to the Impacts of Climate Change, 2011-01-06 Across the United States impacts of climate change are already evident Heat waves have become more frequent and intense cold extremes have become less frequent and patterns of rainfall are likely changing The proportion of precipitation that falls as rain rather than snow has increased across the western United States and Arctic sea ice has been reduced significantly Sea level has been rising faster than at any time in recent history threatening the natural and built environments on the coasts Even if emissions of greenhouse gases were substantially reduced now climate change and its resulting impacts would continue for some time to come To date decisions related to the management and protection of the nation's people resources and infrastructure have been based on records in the recent past when climate was relatively stable Adapting to the Impacts of Climate Change part of the congressionally requested America's Climate Choices suite of studies calls for a new paradigm one that considers a range of possible future climate conditions and impacts that may be well outside the realm of past experience Adaptation requires actions from many decision makers in federal state tribal and local governments the private sector non governmental organizations and community groups However current efforts are hampered by a lack of solid information about the benefits costs and effectiveness of various adaptation options climate information on regional and local scales and a lack of coordination Adapting to the Impacts of Climate Change calls for a national adaptation strategy that provides needed technical and scientific resources incentives to begin adaptation planning guidance across jurisdictions shared lessons learned and support of scientific research to expand knowledge of impacts and adaptation

Selected Papers from the 14th Estuarine and Coastal Modeling Conference Richard P. Signell, 2018-06-27 This book is a printed edition of the Special Issue Selected Papers from the 14th Estuarine and Coastal Modeling Conference that was published in JMSE

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