

THE FORESIGHT FUTURE FLOODING PROJECT – DRIVERS, RESPONSES AND CHOICES FOR FUTURE FLOOD RISK MANAGEMENT

Edward P Evans (Visiting Professor Glasgow University), Jim W Hall (University of Newcastle), Edmund C Penning-Rowsell (University of Middlesex), Paul B Sayers (HR Wallingford), Colin R Thorne (University of Nottingham), Andrew R. Watkinson (University of East Anglia).

SYNOPSIS

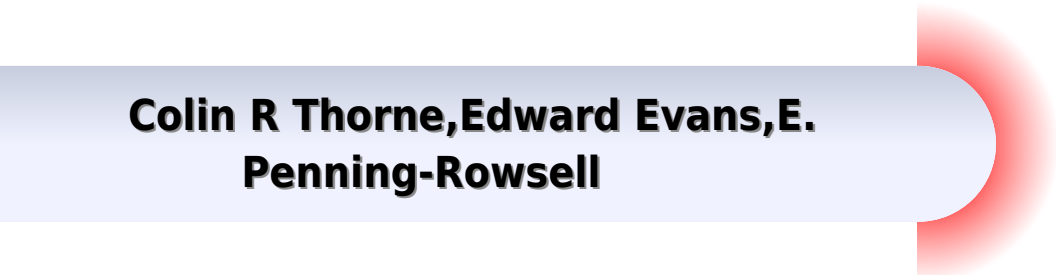
The Foresight Future Flooding project has analysed future flood risk in a scenario framework for the whole UK. The analysis predicts increasing flood risk unless current flood management policies and investment levels are changed, with an increase of up to 20-fold in economic risk by the 2080s. The increase is attributable to a combination of climate change and increasing value of household, industrial and infrastructure assets. Potential responses to flooding vary widely under different socio-economic scenarios. The responses are assessed in terms of the three pillars of sustainability (social, environmental and economic). The paper concludes by putting forward strategic choices for future flood risk management.

INTRODUCTION

This paper summarises some of the results from the **recent** Foresight Future Flooding project (Evans et al. 2004a,b) in which scenario analysis was used to inform the strategic choices that should be made now if we are to address the increased flood risk that may occur in the future. The potential future drivers and impacts of flood risk are assessed for a simple baseline assumption under which the present day approach to flood management and expenditure is held constant under the four

Foresight Report Flood Risk

**Colin R Thorne, Edward Evans, E.
Penning-Rowsell**



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Climate Change, Water Security and Flooding, Sixteenth Report of Session 2003-2004, Report, Together with Formal Minutes, Oral and Written Evidence Great Britain. Parliament. House of Commons. Environment, Food and Rural Affairs Committee, 2004 The Committees report examines the actions that will be necessary to adapt to changes in flooding and water availability caused by climate change There are a number of steps that the Government should take to reduce future flood risk with a key consideration being the planning of new housing developments to avoid building on flood plains where possible Where this is necessary developments should be designed to be as resilient as possible to flooding utilising sustainable drainage systems and including areas such as parks in order to contain floodwater Existing sewer systems will need upgrading and new systems must be built to cope with higher storm flows Greater attention needs to be paid by the Government to the issue of water shortages due to drier summers including considering alternative water pricing mechanisms to relate costs more directly to amount used and ensuring building regulations pay greater attention to water efficiency Water companies must also do more to reduce water leakages Flooding Great Britain. Parliament. House of Commons. Environment, Food and Rural Affairs Committee, 2008 Incorporating HC 1060 i session 2006 07 *Future Flooding and Coastal Erosion Risks* Colin R Thorne, Edward Evans, E. Penning-Rowsell, 2007-01-10 Over 200 billion worth of assets are at risk around British rivers and coasts and those risks are likely to increase over the next 100 years due to changes in climate and in society Sir David King Government Chief Scientific Adviser This book presents a comprehensive insight into the flooding system spanning multiple disciplines across different sectors of the flood and flood management professions It forecasts the manner in which flooding and coastal erosion risks may increase during the 21st century due to climate change Foresight: Managing future risks ,2004 International Conference on Coastlines, Structures and Breakwaters 2005 N. W. H. Allsop, 2005 Of gently sloping revetment in Japan T Uda M Serizawa S Seino Y Hoshigami T Sanami and K Furuie Rehabilitation and redesign of the Gismeroy industrial area sea wall in Mandal Norway A E Lothe and T Birkeland Evaluation of wave climate parameters from benchmarking flotsam levels J Grune Optimum safety levels for rubble mound breakwaters H F Burcharth and J D Sorensen Tiered reliability based methods for assessing the structural performance of coastal defences F A Buijs S Segura Dominguez P B Sayera J D Simm and J W Hall Monitoring and maintenance of coastal structures D Phelp Composite berm rubble mound breakwater J Melby Flood and Coastal Erosion Risk Management Edmund Penning-Rowsell, Sally Priest, Dennis Parker, Joe Morris, Sylvia Tunstall, Christophe Viavattene, John Chatterton, Damon Owen, 2014-01-03 A new Multi Coloured Manual This book is a successor to and replacement for the highly respected manual and handbook on the benefits of flood and coastal risk management produced by the Flood Hazard Research Centre at Middlesex University UK with support from Defra and the Environment Agency It builds upon a previous book known as the multi coloured manual 2005 which itself was a synthesis of the blue 1977 red 1987 and yellow manuals

1992 As such it expands and updates this work to provide a manual of assessment techniques of flood risk management benefits indirect benefits and coastal erosion risk management benefits It has three key aims First it provides methods and data which can be used for the practical assessment of schemes and policies Secondly it describes new research to update the data and improve techniques Thirdly it explains the limitations and complications of Benefit Cost Analysis to guide decision making on investment in river and coastal risk management schemes Flood Risk Science and Management Gareth Pender,Hazel Faulkner,2010-12-01 Approaches to avoid loss of life and limit disruption and damage from flooding have changed significantly in recent years Worldwide there has been a move from a strategy of flood defence to one of flood risk management Flood risk management includes flood prevention using hard defences where appropriate but also requires that society learns to live with floods and that stakeholders living in flood prone areas develop coping strategies to increase their resilience to flood impacts when these occur This change in approach represents a paradigm shift which stems from the realisation that continuing to strengthen and extend conventional flood defences is unsustainable economically environmentally and in terms of social equity Flood risk management recognises that a sustainable approach must rest on integrated measures that reduce not only the probability of flooding but also the consequences This is essential as increases in the probability of inundation are inevitable in many areas of the world due to climate change while socio economic development will lead to spiralling increases in the consequences of flooding unless land use in floodplains is carefully planned Flood Risk Science and Management provides an extensive and comprehensive synthesis of current research in flood management providing a multi disciplinary reference text covering a wide range of flood management topics Its targeted readership is the international research community from research students through to senior staff and flood management professionals such as engineers planners government officials and those with flood management responsibility in the public sector By using the concept of case study chapters international coverage is given to the topic ensuring a world wide relevance **Building for a Changing Climate** Peter F. Smith,2009-12-01 There is now a practically universal consensus that our climate is changing rapidly and as a direct result of human activities While there is extensive debate about what we can do to mitigate the damage we are causing it is becoming increasingly clear that a large part of our resources will have to be directed towards adapting to new climatic conditions with talk of survivability replacing sustainability as the new and most pressing priority Nowhere is this more evident than in the built environment the stage on which our most important interactions with climatic conditions are played out In this frank yet pervasively positive book sustainable architecture guru Peter Smith lays out his vision of how things are likely to change and what those concerned with the planning design and construction of the places we live and work can and must do to avert the worst impacts Beginning with the background to the science and discussion of the widely feared graver risks not addressed by the politically driven IPCC reports he moves on to examine the challenges we will face and to propose practical responses based on real world experiences and case studies

taking in flood and severe weather protection energy efficient retrofitting distributed power generation and the potential for affordable zero carbon homes He ends with a wider discussion of options for future energy provision This will be a provocative persuasive and crucially practical read for anyone concerned with the measures we must take now to ensure a climate proofed future for humanity *Flood Hazards* Jessica Lamond,Colin Booth,Felix Hammond,David Proverbs,2011-07-28 A 360 degree view of the response to flood risk As major flooding events around the world show the impact of flooding on the built environment can cause widespread chaos These flood events form part of a wider pattern of increasing flood frequency coupled with increased vulnerability of the built environment to flood hazard Flood risk can unite or divide communities and the responses to potential risk can range from denial to perfect adaptation Drawing on the experience of communities and experts *Flood Hazards Impacts and Responses for the Built Environment* offers guidance on managing urban flooding and flood risk It brings together a diversity of viewpoints and experiences on flood impacts and responses from leading academics flood restoration specialists emergency responders architects planning consultants insurers policymakers and community representatives By including the perspective of the community and the views of households and businesses at risk this volume makes a unique contribution to the literature on flood management The chapter organization loosely corresponds to the phases of the disaster management cycle covering emergency preparation and response recovery repair and reconstruction and mitigation and adaptation Contributors examine the types of impacts and discuss forecasting and emergency warning They describe processes and good practice in recovery of flood damaged property from the perspectives of the insurance industry restorers and loss adjusters The book also deals with business continuity land use planning property level and infrastructure protection and urban drainage looking at the regulation and design of the built environment as one way to reduce risk A section on community response to flooding sheds light on the experiences of flood affected families Written for students practitioners and researchers in flood risk management as well as for professionals who may encounter flood related issues in the course of their work this cross disciplinary book makes a valuable contribution towards designing a future built environment that is more resilient to flood risk *Flood Forecasting* Thomas E. Adams,Chandana Gangodagamage,Thomas C. Pagano,2024-09-18 *Flood Forecasting A Global Perspective* Second Edition covers hydrologic forecasting systems on both a national and regional scale This updated edition includes a breakdown by county contribution and solutions to common issues with a wide range of approaches to address the difficulties inherent in the development implementation and operational success of national scale flood forecasting systems Special attention is given to recent advances in machine learning techniques for flood forecasting Overall the information will lead to improvements of existing systems and provide a valuable reference on the intricacies of forecast systems in different parts of the world Covers global and regional systems thus allowing readers to understand the different forecasting systems and how they developed Offers practical applications for groups trying to improve existing flood forecasting systems Includes

innovative solutions for those interested in developing new systems Contains analytical and updated information on forecasting and monitoring systems **Spatial Planning and Climate Change** Elizabeth Wilson, Jake Piper, 2010-09-13 The effects of climate change on spatial planning are discussed thoroughly in this comprehensive book which includes information on recent legislation case studies from the UK and Netherlands general information on climate change progress and what can be done to reduce the risks from the changing natural environment Architecture in a Climate of Change Peter F Smith, 2006-08-11 Revised to incorporate and reflect changes and advances since it was first published the new edition of *Architecture in a Climate of Change* provides the latest basic principals of sustainability and the future of sustainable technology Including new material on wind generation domestic water conservation solar thermal electricity as well as international case studies *Architecture in a Climate of Change* encourages readers to consider new approaches to building making minimum demand on fossil based energy *ICE Handbook of Urban Drainage Practice* Richard Ashley, Brian Smith, Paul Shaffer, Issy Caffoor, 2024-02-16 Written by leading experts *ICE Handbook of Urban Drainage Practice* provides an overview of key challenges opportunities and future directions of urban drainage in a practical accessible way An invaluable tool for local authority engineers environmental engineers drainage design operation engineers and consultants or contractors Companion Encyclopedia of Geography Ian Douglas, Richard Huggett, Chris Perkins, 2018-12-12 This revised edition takes the theme of place as the unifying principle for a full account of the discipline at the beginning of the twenty first century The work comprises 64 substantial essays addressing human and physical geography and exploring their inter relations The encyclopedia does full justice to the enormous growth of social and cultural geography in recent years Leading international academics from ten countries and four continents have contributed ensuring that differing traditions in geography around the world are represented In addition to references the essays also have recommendations for further reading As with the original work the new *Companion Encyclopedia of Geography* provides a state of the art survey of the discipline and is an indispensable addition to the reference shelves of libraries supporting research and teaching in geography Opportunistic Adaptation Polpat Nilubon, 2021-06-15 Urban climate adaptation currently focusses mainly on hazards but often ignores opportunities which arise in both space and time *Opportunistic Adaptation* provides a rationalized approach to mainstream measures for climate adaptation into urban renewal cycles Adaptation opportunities are identified by projecting the lifespans of urban assets into the future to obtain an operational urban adaptation agenda for the future Upscaling of the adaptation process is done by synchronizing the end of lifecycle of a group of assets to develop adaptation clusters that comprise multiple dwellings infrastructure as well as public spaces An extensive catalogue of adaptation measures for different scale levels ensures flexibility in the type of measures that can be integrated Sequencing the adaptation measures over long periods of time provides insight and flexibility in the long term protection standards that can be achieved By applying a design centered approach the potentials of obtaining co benefits in

the urban landscape are maximized Potentials of clustering of nature based solutions are being considered which ensures to maximize the delivery of ecosystem services This research aims to assess the adaptation potential of Bangkok based on a case study area Lat Krabang by mapping the adaptation opportunities and flood vulnerability The resulting outputs will contribute to the development of a flexible and inclusive FRM strategy

Draft Flood and Water Management Bill Great Britain: Department for Environment, Food and Rural Affairs,2009 This publication contains a consultation paper draft Bill explanatory notes and an impact assessment The proposals in the draft Bill aim to give effect to the Government s response to Sir Michael Pitt s review Learning lessons from the 2007 floods http://archive.cabinetoffice.gov.uk/pittreview/thepittreview/final_report.html and <http://www.defra.gov.uk/enviro/fcd/floods07/Govtresptopitt.pdf> Future water the Government s water strategy for England 2008 Cm 7319 ISBN 9780101731928 and to the flood and water aspects of the Welsh Assembly Government s Environment strategy and Strategic policy position statement on water <http://wales.gov.uk/topics/environment/countryside> The proposals cover flood and coastal erosion risk management including a strategic overview role for the Environment Agency and provision for a new local authority leadership role in local flood risk management Other policies cover main river mapping co operation and sharing of information sustainable drainage systems Regional Flood Defence Committees implementation of the EU Floods Directive and the Water Framework Directive reservoir safety surface water management plans and hosepipe bans Two major independent reviews are also awaited Martin Cave s review of competition and innovation in water markets and Anna Walker s review of charging and metering for household water and sewerage services Their recommendations will have to be considered and could lead to further legislative proposals in this area

Engineering Great Britain. Parliament. House of Commons. Innovation, Universities, Science and Skills Committee,2009 Incorporating HC 470 i iii 640 i iii 599 i iii 1064 i 1202 i 1194 i of session 2007 08

Handbook of Catchment Management Robert C. Ferrier,Alan Jenkins,2009-09-11 This book addresses the fundamental requirement for aninterdisciplinary catchment based approach to managing andprotecting water resources that crucially includes anunderstanding of land use and its management In thisapproach the hydrological cycle links mountains to the sea andecosystems in rivers groundwaters lakes wetlands estuaries andcoasts forming an essential continuum directly influenced by humanactivity The book provides a synthesis of current and future thinking incatchment management and shows how the specific problems thatarise in water use policy can be addressed within the context of anintegrated approach to management The book is written for advancedstudents researchers fellow academics and water sectorprofessionals such as planners and regulators The intention is tohighlight examples and case studies that have resonance not onlywithin natural sciences and engineering but with academicsin other fields such as socio economics law and policy

Flood Risk Management: Hazards, Vulnerability and Mitigation Measures Jochen Schanze,Evzen Zeman,Jiri Marsalek,2007-09-17 Floods are of increasing public concern world wide due to increasing damages and unacceptably high numbers of injuries Previous

approaches of flood protection led to limited success especially during recent extreme events Therefore an integrated flood risk management is required which takes into consideration both the hydrometeorological and the societal processes Moreover real effects of risk mitigation measures have to be critically assessed The book draws a comprehensive picture of all these aspects and their interrelations It furthermore provides a lot of detail on earth observation flood hazard modelling climate change flood forecasting modelling vulnerability mitigation measures and the various dimensions of management strategies In addition to local and regional results of science engineering and social science investigations on modelling and management transboundary co operation of large river catchments are of interest Based on this the book is a valuable source of the state of the art in flood risk management but also covers future demands for research and practice in terms of flood issues

Urban Flood Management Chris Zevenbergen, Adrian Cashman, Niki Evelpidou, Erik Pasche, Stephen Garvin, Richard Ashley, 2010-09-21

Along with windstorms floods are the most common and widespread of all natural disasters Although they can often be predicted they cause loss of life damage and destruction as many urban communities are located near coasts and rivers In terms of victims floods are responsible for more than half the deaths caused by natural catastrophes As f

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Foresight Report Flood Risk**

In a world inundated with screens and the cacophony of instant transmission, the profound energy and emotional resonance of verbal art usually disappear in to obscurity, eclipsed by the continuous assault of sound and distractions. Yet, located within the musical pages of **Foresight Report Flood Risk**, a fascinating perform of literary brilliance that pulses with raw thoughts, lies an remarkable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, this mesmerizing opus guides readers on a psychological odyssey, softly revealing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative analysis, we will embark upon an introspective exploration of the book is central subjects, dissect its fascinating publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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