

# Changes in Flood Risk in Europe (IAHS Special Publications)

Z. W. Kundzewicz



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Floods are the most prevalent natural hazard in Europe. But, has flood risk increased in the continent? How, where, and why? Are climate change impacts apparent? How do socio-economic trends and associated landuse change impact flood risk?

This interdisciplinary book, authored by an international team, offers:

A comprehensive overview of flood risk in Europe, past and present, and future National/regional chapters covering Central Europe, Western Europe, Southern Europe and Northern Europe, the Alpine region and the Iberian Peninsula.

A focus on detection and attribution of change with respect to climate change and its impacts, water resources and flood risk, the re-insurers view point, and future projections of flood risk Rectification of common-place judgements, e.g.: "climate is warming so floods should become more frequent and intense"; observations do not always confirm this expectation

The book will be of interest to those interested in floods and flood risk, including research scientists and educators, students, engineers, planners, risk reduction specialists, staff of specialized national and international agencies, and the media.

Foreword

Preface

1 Introduction

I FACETS OF CHANGE

- 2 Changes in Flood Risk Setting the Stage
- 3 Catalogue of Large Floods in Europe in the 20th Century
- 4 Large-scale Flooding in Europe, 1961-2005
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II NATIONAL AND REGIONAL PERSPECTIVES ON FLOODS

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12 Floods in Greece 13 Floods in Iceland 14 Flood Risk in Italy 15 Floods in The Netherlands 16 Floods in Norway 17 Floods in Poland 18 Floods in Switzerland 19 Flood Risk in the UK: Evidence of Change and Management Responses 20 Floods in the Alpine Areas of Europe 21 Floods in the Iberian Peninsula III DETECTION AND ATTRIBUTION OF CHANGE, AND PROSPECTS 22 Detection of Changes 23 Detection and Attribution of Climate Change and Its Impacts 24 Detection and Attribution of Changes in Water Resources 25 Detection and Attribution of Changes in Flood Hazard and Risk 26Changing Flood Risk - A Re-insurer's Viewpoint 27 Projections of Flood Risk in Europe The International Association of Hydrological Sciences is the world's premier member-based organization promoting the study and practice of Hydrology. Our books are authored, edited and produced at the highest level of quality, with the most current and thorough research. Our publications and our work advance the science and the professional practice of Hydrology in a variety of Science and Engineering fields around the world. The areas that we publish in include: -Ground water -Surface water

11 Flood Risk from a Holistic Perspective - Observed Changes in Germany

-Snow and ice hydrology-Drought and desertification

-Runoff modelling

-Watershed-Remote sensing-Water quality

- -Water resources and management
- -Ecohydrology/hydro-ecology
- -Erosion and sediment
- -Tracer hydrology



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