

Sustainable Water Resources Planning and  
Management Under Climate Change  
by  
Water Resources Management Leading Team,  
IAHR

Vice chair  
S. Oishi  
(Kobe University)

# Web meeting under COVID19

20:00, Oct 23, 2020 (13:00CET)

ZOOM

1. Postponed IAHR Congress and our activity (Author meet)

2. Book

3. Next Meeting on November 26 and 27

# Book publication in 2017

Sustainable Water Resources Planning  
and Management Under Climate Change

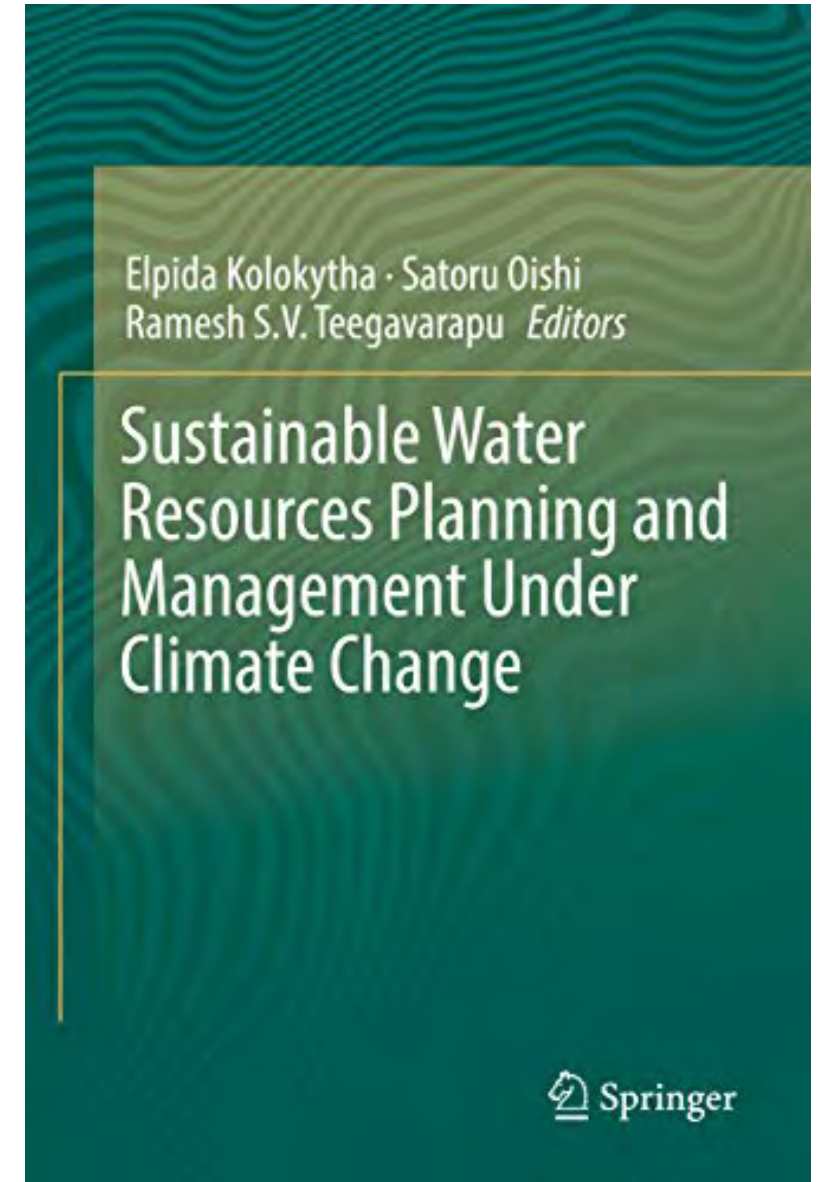
Editors:

Elpida Kolokytha

Satoru Oishi

Ramesh Teegavarapu

Springer



# Part I

## Hydrological Aspects of Climate Change

- Climate Variability and Changes in Precipitation Extremes and Characteristics by Ramesh S.V. Teegavarapu
- Hydrologic Extremes Under Climate Change: Non-stationarity and Uncertainty by Arpita Mondal and P.P. Mujumdar
- Impact of Climatic and Land Use Changes on River Flows in the Southern Alps by Roberto Ranzi, Paolo Caronna, and Massimo Tomirotti

## Part II

# Decision Making for Managing Water Resources Systems Under Climate Change

- Ranking of Global Climate Models for Godavari and Krishna River Basins, India, Using Compromise Programming by K. Srinivasa Raju, D. Nagesh Kumar, and Naga Babu I
- Integrated Reservoir Operation Considering Real-Time Hydrological Prediction for Adaptive Water Resources Management by Daisuke Nohara and Tomoharu Hori
- Optimization of Integrated Operation of Dams Using Ensemble Prediction by Satoru Oishi

## Part III

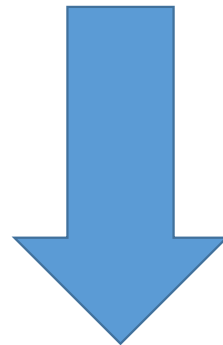
# Adaptive Policy Under Climate Change: Case Studies

- Adaptation to Climate Change: Risk Management by Slobodan P. Simonovic
- Adaptation to Climate Change: Decision Making by Young-Oh Kim and Eun Sung Chung
- Adaptation to Climate Change: Green Development by Elpida Kolokytha
- Adaptation to Climate Change: Institutional Analysis by Ana Cristina Souza da Silva, Cazlos de Oliveira Galvão, Márcia Maria Rios Ribeiro, and Tafnes da Silva Andrade

# Part IV

## The Way Ahead

- Climate Change Impacts and Water Resource Management and Planning by Elpida Kolokytha, Carlos de Oliveira Galvão, and Ramesh S.V. Teegavarapu



Book has been published

Climate-Change Sensitive Water  
Resources Management

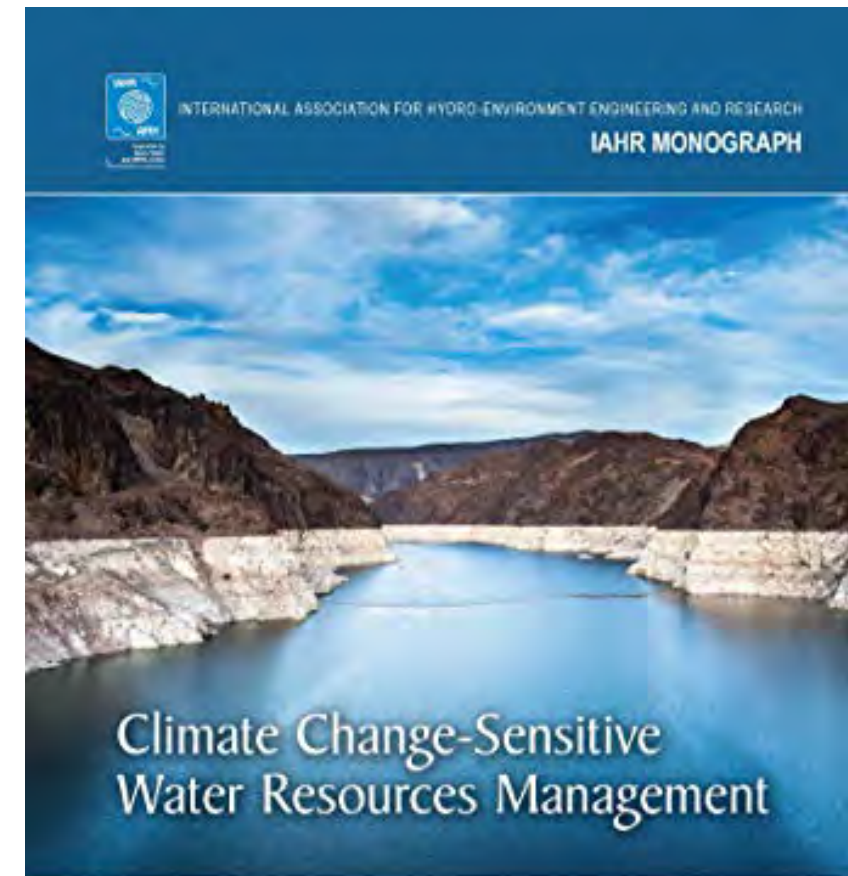
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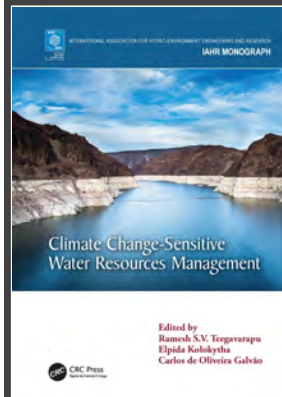
Carlos de Oliveira Galvao

CRC Press



**Edited by**  
**Ramesh S. V. Teegavarapu**  
**Elpida Kolokytha**  
**Carlos de Oliveira Galvão**





December 2020: 190pp  
66 illustrations

Hb: 978-0-367-25788-0 | \$100.00  
eBook: 978-0-429-28987-3

#### TABLE OF CONTENTS:

1. Water resources management under changing climate: major issues
2. WRM and EU policies to adapt to climate change: experience from Greece
3. Responding to climate change impacts on water resources and management: Insights from Australia
4. Optimization of the operation of multi-purpose dams using ensemble prediction: case study from Japan
5. Hydroclimatic variability across Tapi basin, India: issues and implications
6. Effectiveness of adaptation options for multi-purpose reservoir operation to climate change: a case study in Japanese river basins
7. Nature-based solutions as climate change adaptation and mitigation measures in Italy
8. Spatial modelling of knowledge: water resources management in a Brazilian coastal area
9. Evolving adaptive hydrologic design and water resources management in a changing climate: experiences from the U.S.
10. Incorporation of robustness and adaptiveness into reservoir operations under climate change
11. The way ahead: adaptive water management and climate effects.

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## Climate Change-Sensitive Water Resources Management

Edited by **Ramesh S.V. Teegavarapu**, Florida Atlantic University, Boca Raton, U.S.A., **Elpida Kolokytha**, Aristotle University of Thessaloniki, Greece and **Carlos de Oliveira Galvão**, Universidade Federal de Campina Grande, Brazil

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Topics ranging from hydrologic design to management and policy responses to climate change are discussed, which bring updated theories that highlight methods, tools, and experiences on the topic of water resources under climate change. The practical and applied methodologies presented in the book and through insightful case studies discussed will provide readers worldwide with ready-to-use information to manage water resources sustainably under evolving climate. This book is ideally suited for water resources managers, scientists, and professionals from water management agencies, graduate students, national laboratory agencies responsible for water and environmental management.

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We are planning a session explaining the contents of the text in



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19-24 June 2022