**Science, Policy and Politics of Modern Agricultural System**

Global Context to Local Dynamics of Sustainable Agriculture

**Contents**

Preface.- Acknowledgements.- List of Contributors.- List of Figures.- List of Tables.- List of Abbreviations and Acronyms.- Part I Sustainable Agricultural Development Face to Environmental, Economic and Social Dynamics.- 1 Agricultural and Food System - Global Change Nexus: Dynamics and Policy Implications.- 2 Challenges facing the macroeconomic policy for sustainable development in agriculture (based on the model of organic agriculture in Bulgaria).- 3 Environmentally sound and commercially sustainable agricultural development in Nigeria.- 4 Some socio-economic factors affecting farmers' participation of agricultural extension education efforts: A case study in Northeastern Thailand.- 5 Factors influencing the choice of inorganic contrasting to organic practices in Irish potato production and viable actions to reverse the trend: A case study of Kissoro District, South-western Uganda.- 6 Moroccan agriculture facing climate change: Adaptation and local distribution of the value added.- 7 Economic impact of climate change on wheat productivity in Bangladesh: A Ricardian approach.- 8 Farmers' attitude towards the traditional and modern irrigation methods in Tabuk Region - Kingdom of Saudi Arabia.- Part II Impacts of Soil Degradation in Terms of Agricultural Productivity. [...]  

**Fields of Interest**

Soil Science & Conservation; Agriculture; Climate Change Impacts

**Target groups**

Research

**Product category**

Contributed volume

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**Environmental Sciences**

Y. Chen, Chinese Academy of Sciences, Xinjiang, People's Republic of China (Ed)

**Water Resources Research in Northwest China**

This book examines the possible impacts of climate change on hydrology and water resources in the arid region of Northwest China, which is one of the world's largest arid places. The first chapter offers an introductory discussion of the physical geography and socioeconomic conditions in the region.

**Features**

- Covers a geographic region whose arid climate has attracted international notice
- Explores water resources in the context of climate change in an already dry region
- The contributors are leading scholars with a wealth of experience in water resources research on arid and cold regions of China

**Contents**

1. Exordium.- 2 Climate System in Northwest China.- 3 Hydrologic system in Northwest China.- 4 Response of Run-off to Climate Change.- 5 Glacier change and its impact on water resources.- 6 Spatial-temporal Variation of Snow Cover from Space in Northern Xinjiang.- 7 Change of potential evaporation and its implications to water cycle.- 8 The nonlinear hydro-climatic process: a case study of the Tarim headwaters, NW China.- 9 Climate change scenarios and the impact on runoff.- 10 Changes in extreme hydrological events.- 11 Water resources management.- Index.

**Fields of Interest**

Sustainable Development; Hydrology/Water Resources; Physical Geography

**Target groups**

Research

**Product category**

Contributed volume

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G. Duca, Academy of Sciences of Moldova, Chisinau, Moldova (Ed)

**Management of Water Quality in Moldova**

**Features**

- Gives a survey of the water situation in Moldova
- Deals with access to water and water quality
- Helps developing countries to establish water management
- Gives rise to legal actions for water management
- Presents methods of water treatment

**Contents**


**Fields of Interest**

Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution; Water Policy/Water Governance/Water Management; Water Quality/Water Pollution

**Target groups**

Research

**Product category**

Monograph

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Due January 2014

2014. I, 346 p. 79 illus., 66 in color. Hardcover
- € (D) 106,99 | € (A) 109,99 | sFr 133,50
- € 99,99 | £90.00
ISBN 978-94-007-7956-3

Due January 2014

- € (D) 139,09 | € (A) 142,99 | sFr 173,50
- € 129,99 | £117,00
ISBN 978-94-017-8016-2

Due December 2013

2014. VIII, 204 p. 151 illus., 67 in color. (Water Science and Technology Library, Volume 69) Hardcover
- € (D) 106,99 | € (A) 109,99 | sFr 133,50
- € 99,99 | £90.00
ISBN 978-3-319-02707-4
Hula Valley

Ecology, Hydrology, Agriculture, Nutrient Dynamics, Tourism and Nature Conservation

The book subject is a comprehensive ecological insight into a natural ecosystem that was strongly modified by human intervention and its management has a significant impact on water, agricultural, natural and touristic resources. The anthropogenic and natural impacts on the ecosystem are crucial for the sustainability of the regional economy and national water supply. The chapters are giving a scientific-descriptive information on long term natural and anthropogenic processes. The presented information is a thorough guideline of long term human experience of intervention in natural ecosystem structure with indications for predicted sustainability. The book chapters cover topics of hydrology and eco-hydrology, limnology, geochemistry, underground waters, peat soil chemistry and degradation, natural resources of plants and animal (emphasizing birds) agricultural developments and the introduction of eco-tourism into the management design.

Feature
► This book presents a thorough guideline of long term human experience of intervention in natural ecosystem structure with indications for predicted sustainability

Fields of interest
Marine & Freshwater Sciences; Hydrogeology

Target groups
Research

Product category
Monograph

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G. R. Guntenspergen, USGS Patuxent Wildlife Research Center, Laurel, MD, USA (Ed)

Application of Threshold Concepts in Natural Resource Decision Making

Contents

Fields of interest
Environmental Management; Applied Ecology; Monitoring/Environmental Analysis

Target groups
Research

Product category
Contributed volume

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Handbook of Climate Change Adaptation

Editor-in-chief: W. Leal Filho, Hamburg University of Applied Sciences Faculty of Life Science, Hamburg, Germany

The Handbook of Climate Change Adaptation addresses the scientific, social, political and cultural aspects of climate change in an integrated and coherent way.

Features
► Provides a comprehensive overview of the topic. ► State-of-the-Art contents. ► Peer-reviewed by international experts

Contents
Section 1: Climate Change Impacts and Management.- Section 2: Policy and Climate Change Section.- Section 3: Climate Change Adaptation, Agriculture and Water Security Section.- Section 4: Climate Change Adaptation Technologies.

Fields of interest
Climate Change; Climate Change Management and Policy; Environmental Economics

Target groups
Research

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Due January 2015

Print

► approx. * € (D) 1068,93 | € (A) 1098,90 | sFr 1337,50
► approx. € 1250,00 | £1125.00
ISBN 978-3-642-38669-5

eReference

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► approx. ** € (D) 1188,81 | € (A) 1198,80 | sFr 1397,50
► approx. € 999,00 | £899.50
ISBN 978-3-642-38670-1

Due September 2015

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► approx. * € (D) 106,95 | € (A) 109,95 | sFr 133,50
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ISBN 978-3-540-88249-7

Due March 2014

2014. V, 322 p. 85 illus., 37 in color. Hardcover
► ** (D) 139,09 | € (A) 142,99 | sFr 173,50
► € 129,99 | £117.00
ISBN 978-1-4899-8040-3

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C. Gophen, MIGAL Galilee Technological Center, Kiryat Shmona, Israel

Springer.com/NEWSonline
**Handbook of Renewable Energy**

**Editor-in-chief:** W. Leal, Hamburg University of Applied Sciences, Hamburg, Germany

Energy security and energy supply are matters of central international concern, and the use of renewable energy is becoming increasingly necessary and attractive. The Handbook of Renewable Energy focuses on the emergent and rapidly growing market of renewable energy.

**Features**
- Provides a comprehensive overview of the topic
- State-of-the-Art contents

**Contents**
Hydro Energy Volume.
- Solar Energy.
- Wind Energy.
- Biomass Energy.
- Geothermal Energy.
- Wave & Tidal Energy.

**Fields of interest**
Climate Change; Earth System Sciences; Environmental Economics

**Target groups**
Research

**Product category**
Handbook

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**Print**
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  sFr 133,50
- approx. € 99,95 | £90.00
ISBN 978-3-319-03439-3

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**Managing Protected Areas in Central and Eastern Europe Under Climate Change**

**Contents**
Preface.
- Acknowledgements.
- Chapter 1 – Natural Heritage at Risk by Climate Change.
- Chapter 2 – Climate Change in Central and Eastern Europe.
- Chapter 3 – Effects of Climate Change on the Hydrological Cycle in Central and Eastern Europe.
- Chapter 4 – Potential impacts of climate change on protected habitats.
- Chapter 5 – Climate change impact modelling cascade - Benefits and limitations for.
- Chapter 6 – Indicators for Monitoring Climate Change-Induced Effects on Habitats.
- Chapter 8 – Assessment of Climate-induced Impacts on Habitats.
- Chapter 9 – Legal Aspects of Climate Change Adaptation.
- Chapter 10 – A Methodical Framework for Climate Change-Adapted Management in Protected Areas.
- Chapter 11 – Monitoring concept of climate-induced impacts on peat bog vegetation in Poljikula plateau in Triglav National Park, Slovenia.
- Chapter 12 – Concept for the monitoring of climate induced impacts on rock ptarmigan (Lagopus muta) in Triglav National Park, Slovenia.
- Chapter 14 – Climate-induced challenges for wetlands: revealing the background for the adaptive ecosystem management in the Biebrza Valley, Poland.

**Fields of interest**
Climate Change; Nature Conservation; Fish & Wildlife Biology & Management

**Target groups**
Professional/practitioner

**Product category**
Contributed volume

**Due January 2014**
2014. XIV, 310 p. 75 illus., 37 in color. (Advances in Global Change Research, Volume 58) Hardcover
- **€ (D) 106,99 | € (A) 109,99 | sFr 133,50
- € 99,99 | £90.00
ISBN 978-94-007-7959-4
Marine Renewable Energy Technology and Environmental Interactions

Features
► Brings together research focused on improving our understanding of marine renewable energy and environmental interactions ► Covers environmental topics related to wind, wave and tidal energy technology ► Describes novel methods for collecting data in locations with extreme environmental conditions

Contents

Fields of interest
Marine & Freshwater Sciences; Renewable and Green Energy; Freshwater & Marine Ecology

Target groups
Research

Product category
Contributed volume

Nitrogen Deposition, Critical Loads and Biodiversity

This volume brings together extended reviews and papers of new scientific research on atmospheric nitrogen deposition impacts globally.

Features
► Focuses on better quantification of atmospheric deposition, development and application of critical loads methodologies ► Looks at the assessment of impacts on biodiversity, the consequences for ecosystem services ► Includes approaches to developing environmental policies to manage the threats of nitrogen deposition

Contents

Fields of interest
Atmospheric Protection/Air Quality Control/Air Pollution; Terrestrial Pollution; Waste Water Management/Aquatic Pollution

Target groups
Research

Product category
Contributed volume

Insights on Environmental Changes
Where the World is Heading

This book presents valuable insights on a vast array of topics in the field of environmental studies. The works published in the book were presented within the scope of the 2013 Sopot Forum of Young Scientists. The Forum is an annual event which provides a platform for young researchers to present their work and exchange ideas with their peers. The aim of the forum is to make science more popular, so the speakers talked about their work in a way that was easily understandable. The book contains actual scientific papers on their own topics of interest. The papers represent different areas of environmental sciences, from biology to physics. The main umbrella topic for this book is “WHERE THE WORLD IS HEADING” and the papers are constructed in such a way as to try to answer this from each contributor’s individual perspective.

Features
► Young researchers’ platform for discussion on environmental issues ► Interdisciplinary contributions on global environmental changes ► Proceedings of the Sopot Association for the Advancement of Science Forum of Young Scientists

Fields of interest
Climate Change; Climate Change Impacts

Target groups
Research

Product category
Monograph