

Advances in Natural and Technological Hazards Research

# **Drought and Drought Mitigation in Europe**

Jürgen V. Vogt and Francesca Somma (Editors)

A large, abstract, curved shape in shades of orange and yellow, resembling a stylized sun or a wave, occupies the lower half of the cover.

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# Drought And Drought Mitigation In Europe

**Jerome Delli Priscolli ,Kenzo Hiroki**



## **Drought And Drought Mitigation In Europe:**

Drought and Drought Mitigation in Europe Jürgen V. Vogt, Francesca Somma, 2013-04-17 Drought is one of the major natural hazards resulting in significant economic social and environmental costs In Europe water shortage is an important problem in many regions However despite the increasing awareness of this hazard there is no European drought policy and institutional frameworks to cope with drought situations are only weakly developed This book is dedicated to furthering our understanding of the drought problem in Europe and to discussing policy and management options to mitigate its impacts It covers aspects from the detection of water stress to the planning of mitigation strategies The contributions are written by recognised experts in their field and represent a unique collection of papers on the topic Audience The book will be of benefit to scientists managers and politicians involved in problems related to water management risk assessment and spatial planning Students in Earth Sciences especially in geography climatology hydrology and agriculture will find useful material in this collection of papers

**Governance for Drought Resilience** Hans Bressers, Nanny Bressers, Corinne Larrue, 2016-05-11 This book presents the findings of a team of scientists and practitioners who have been working on the project Benefits of Governance in Drought Adaptation in short the DROP project which is included in the European Union s INTERREG IVB NWE programme The DROP governance team developed a Governance Assessment Tool GAT which allows the governance setting of a given region for planning and realizing drought adaptation measures to be assessed Based on this assessment recommendations can be developed for regional water authorities concerning how to operate most effectively towards increased drought resilience in this context The GAT has been applied to six regions in Northwest Europe Twente and Salland in the Netherlands Eifel Ruhr in Germany Brittany in France Somerset in the United Kingdom and Flanders in Belgium These regions are subject to drought aspects related to nature agriculture and freshwater This book will aid regional water authorities and other relevant stakeholders interested in governance assessment whether that context is about water more specifically about drought or flooding events or other environmental issues Further the GAT can and has also been applied more broadly to a range of governance contexts for water management and beyond

**Tools for Drought Mitigation in Mediterranean Regions** Giuseppe Rossi, Antonino Cancelliere, L.S. Pereira, Theib Oweis, Muhammad Shatanawi, Abdelaziz Zairi, 2012-12-06 Significant vulnerability of water systems to drought is a common issue of water resources management in Mediterranean regions This is due both to the increasing occurrence and severity of drought events and to the growing demand for municipal tourist and agricultural uses The INCO DC project entitled A Decision Support System for Mitigation of Drought Impacts in the Mediterranean Regions DSS DROUGHT addresses this issue contributing to an improved management of water supply systems for irrigation which represents the most consumptive sector of water resources uses in the Mediterranean region In order to develop a comprehensive approach toward improved operation of irrigation systems under drought conditions the project was developed around the following five main strictly

interconnected tasks Identification of drought characteristics at a site and over a region Modelling irrigation management under conditions of water scarcity Modelling operation of water supply systems under drought conditions Integration of the developed methodologies within a Decision Support System software package Definition of requisites for Drought Watch Systems The research resulted in an advancement of knowledge through in depth analysis of innovative methodologies the development of tools to help decision makers in coping with droughts through the implementation of the developed procedures in software packages and the application of these tools to the case studies identified by partners in their countries

**Drought Management and Planning for Water Resources** Joaquin Andreu Alvarez, Giuseppe Rossi, Federico Vagliasindi, Alicia Vela Mayorga, 2005-11-01 Droughts and their management are a serious challenge to water resource professionals While droughts predominate in arid regions their frequency and severity in more temperate regions with more abundant rainfall have been on the rise Drought Management and Planning for Water Resources provides an essential collection of planning and management *Drought Assessment* R. Nagarajan, 2010-09-08 Information based decision making during drought often brings out some of the excellent practices that are prevalent in society individuals This book is designed to provide information on the drought process meteorological hydrological agriculture socio economic aspects and available technologies such as satellite remote sensing data analysis and Geographical Information system for assessment Assessment procedures utilising the various parameters of importance from various sources for micro level management that would enhance the effectiveness of management practice are dealt in detail Resource availability and affected group determine the relief assistance for the present event and information that would help them in their realisation and preparedness for the forthcoming years by select countries is highlighted This would help in the formulation of schemes for event mitigation and area development plans The readers would gain complete knowledge on drought This book is expected to act as a guide in preparing people as effective natural resource utilizationist under drought situations OECD Studies on Water Mitigating Droughts and Floods in Agriculture Policy Lessons and Approaches OECD, 2016-01-18 Climate change is expected to increase the frequency and magnitude of extreme weather events notably of droughts and floods to which the agriculture sector is particularly exposed **Hydrological Drought** Lena M. Tallaksen, Henny A.J. van Lanen, 2004 The majority of the examples are taken from regions where the rivers run most of the year **Managing Europe's Water Resources** Chad Staddon, 2016-05-13 Illustrated with case studies which explain key concepts and provide practical examples this book provides a detailed and comprehensive introduction to water management issues from a European perspective The book begins with a brief history of water management followed by a consideration of the major frameworks used for managing water in its qualitative and quantitative aspects Several chapters treat key water management issues including dams privatization hydropolitics climate change and finally provides a synoptic treatment of major water management issues across Europe's geographical regions Drought Policies: Case Studies on Mega-droughts for the High

Level Experts and Leaders Panel on Water and Disasters (HELP) Jerome Delli Priscolli ,Kenzo Hiroki ,2019-11-15 This book focuses on mega droughts of the past 20 years Twelve cases from both developed and developing countries are elaborated in the book Its intention is to draw lessons from the cases of extremely severe water shortages so that countries and stakeholders can be better prepared for extreme drought events in the future Several recurrent themes emerge from the diverse case studies and descriptions of programs For example most chapters discuss the necessity to move from reactive compensatory to preventive policies This theme has implications for use of insurance in developing countries e g is insurance encouraging investments to help countries avoid disasters or is it acting mostly in a humanitarian way to compensate for losses to help people Several authors point to the importance of risk assessment and to developing risk based policies for drought This raises statistical issues of how such assessments of uncertainty and risks are done and how they relate to actual occurrence of events Most chapters call for more inter sectoral policies policies which integrate water resources management approaches and to the necessity of raising public awareness of droughts in times of no drought The issue of structural versus nonstructural is clear in most cases While often cast as either or the message that emerges is more one of how do you integrate these approaches Finally a few chapters bring to light how prevention is needed for national security as well as water security In Focus a book series that showcases the latest accomplishments in water research Each book focuses on a specialist area with papers from top experts in the field It aims to be a vehicle for in depth understanding and inspire further conversations in the sector

**Drought** Justin Sheffield, Eric F. Wood, 2012-11-12 Drought is one of the likely consequences of climate change in many regions of the world Together with an increased demand for water resources to supply the world's growing population it represents a potentially disastrous threat to water supplies agriculture and food production leading to famine and environmental degradation Yet predicting drought is fraught with difficulty The aim of this book is to provide a review of the historical occurrence of global drought particularly during the 20th century and assess the likely potential changes over the 21st century under climate change This includes documentation of the occurrence and impacts of major 20th century drought events and analysis of the contributing climatic and environmental factors that act to force prolong and dissipate drought Contemporary drought is placed in the context of climate variability since the last ice age including the many severe and lengthy drought events that contributed to the demise of great civilizations the disappearance of lakes and rivers and the conversion of forests to deserts The authors discuss the developing field of drought monitoring and seasonal forecasting and describe how this is vital for identifying emerging droughts and for providing timely warning to help reduce the impacts The book provides a broad overview of large scale drought from historic events such as the US Dust Bowl and African Sahel and places this in the context of climate variability and change The work is soundly based on detailed research that has looked at drought occurrence over the 20th century global drought monitoring modelling and seasonal prediction and future projections from climate models

**Developing Adaptation Policy and Practice in**

**Europe: Multi-level Governance of Climate Change** E. Carina H. Keskitalo, 2010-09-14 Mitigation will not be sufficient for us to avoid climate change and we will need to adapt to its consequences This book targets the development of adaptation policy in European countries with different relations between central and regional local government

**Drought risk management: a strategic approach** Speed, Robert, Tickner, David, Lei Gang, Sayers, Paul, Wei Yu, Li Yuanyuan, Moncrieff, Catherine, Pegram, Guy, Li Jianqiang, Xu Xiangyu, Li Aihua, Qiu Bing, 2016-09-19

**Facing Hydrometeorological Extreme Events** Isabelle La Jeunesse, Corinne Larrue, 2019-11-04 Provides an understanding of the relationship between social ecological systems and multilevel governance so that readers can properly deal with hydrometeorological extreme events and hazards Based on field investigations from EU research projects this book is the first to devote itself to scientific and policy related knowledge concerning climate change induced extreme events It depicts national and international strategies as well as tools used to improve multilevel governance for the management of hydrometeorological risks It also demonstrates how these strategies play out over different scales of the decision making processes Facing Hydrometeorological Extreme Events A Governance Issue offers comprehensive coverage of such events as floods droughts coastal storms and wind storms It showcases real life success stories of multilevel governance and highlights the individuals involved and the resources mobilized in the decision making processes The book starts by presenting a synthesis of hydrometeorological extreme events and their impacts on society It then demonstrates how societies are organizing themselves to face these extreme events focusing on the strategies of integration of risk management in governance and public policy In addition it includes the results of several EU funded projects such as CLIMB STARFLOOD and INTERREG IVB project DROP The first book dedicated to hydrometeorological extreme events governance based on field investigations from EU research projects Offers a multi hazards approach mixing policy governance and field investigations main outputs Features the results of EU funded projects addressing hydrometeorological extreme events Part of the Hydrometeorological Extreme Events series Facing Hydrometeorological Extreme Events is an ideal book for upper graduate students postgraduates researchers scientists and policy makers working in the field

[Coping with Drought Risk in Agriculture and Water Supply Systems](#) Ana Iglesias, Luis Garrote, Antonio Cancelliere, Francisco Cubillo, Donald A. Wilhite, 2009-01-22 Over the last three decades drought episodes have resulted in severe social problems in Mediterranean countries receiving broad attention from the international scientific and policy communities The experiences in the development and implementation of drought management plans highlight the success and challenges of coping with drought for societies with different vulnerabilities and emphasize risk based drought management as a critical approach to mitigate the impacts associated to drought induced water shortages Based on these experiences and the current methods for evaluating risk the book synthesises guidelines for drought management that link science and policy and that can be applied to other regions The book comprises a collection of papers divided into four sections that appeal to a broad audience First the social and hydrological context of Mediterranean countries is presented

discussing the interactions that have resulted in the complex institutional framework and highlighting the importance of stakeholder involvement and awareness building for successful drought management This section emphasises the role of organizations institutions and civil stakeholders involved in drought preparedness and mitigation and or on water management for designing effective risk based strategies that mitigate the effects of drought in agriculture and water supply systems Second the book presents an academic approach to risk evaluation including characterization of drought episodes development of indicators of risk in hydrological and agricultural systems and analysis of the role of economic instruments and groundwater for risk mitigation This section finalises with the description of an integrated method for evaluating social vulnerability based on indicators that include the capacity to anticipate cope and respond to drought The third section includes a collection of case studies that include the description of effective measures taken in the past These case studies provide the context for developing demand driven guidelines that may be applied to other regions The authors of these chapters can be viewed as stakeholders in drought management since they represent a broad range of sectors and institutions from Mediterranean European and North African countries The topics addressed have implications for the international policy community interested in disaster mitigation agricultural policy and development Finally a synthesis of the management actions is presented in four chapters Monitoring and preparedness planning is the essential first step for moving from disaster to risk management in response to drought The management actions related to agriculture and water supply systems are presented in two different chapters but with a common conceptual framework based on the use of drought indicators for evaluating the levels of drought risk pre alert alert and emergency that allow establishing linkages between science and policy The final chapter discusses the lessons learned and application to other regions

*Water Resources of Italy* Giuseppe Rossi, Marcello Benedini, 2020-04-17 This book offers a comprehensive framework of the current state of water resources in Italy and of the main stages of the evolutionary way in the last decades for achieving an integrated sustainable and equitable water resources management The main paradigms of water resources development are identified as i engineering and economic approach to water resources exploitation ii focus on pollution control and water excess management iii a comprehensive approach toward a sustainable and equitable distribution of resources and effective risk reduction of water related disasters After a section devoted to the analysis of some historic stages in the legislation framework and the governance of water and soil with particular reference to planning design building and operation of water systems two sections deal with the estimation of water resources availability on national territory and estimation of water demands in municipal agricultural industrial ecosystem sectors The complex problems that the Italian society has to solve in the water field and the main challenges of a changing world are discussed in the fourth section of the volume The book will not only be useful for water professionals but also for citizen who like to discern the key factors which delay the recognition of water as a resource for life The description of the problems and adopted solutions could also serve as a guideline for

similar situations encountered in other countries improving the preparation of the responsible people      *Water Management and Climate Change* Cecilia Tortajada, Asit Biswas, Avinash Tyagi, 2016-04-14 To plan successfully and manage the increased uncertainties posed by likely future climate change knowledge needs to advance much more for the water profession beyond what it is now available Meeting these challenges does not depend exclusively on advances in climatological hydrologic models Policies for adaptation and strategies for mitigation measures have to be formulated on the basis of what are likely to be the potential impacts These will have to be regularly fine tuned and implemented according to changing needs and as more reliable knowledge and data become available Even more challenging will be the politics of policy making and implementation which will require a quantum leap from current policy making and implementation processes One can even say that in addition to the development of more reliable models the politics of climate change and water management remains one of the greatest uncertainties for the water profession This book addresses water management practices and how these should and could be modified to cope with climatic and other related uncertainties over the next two to three decades the types of strategies and good practices that may be available or have to be developed to cope with the current and expected uncertainties in relation to climate change and the types of knowledge information and technological developments needed to incorporate possible future climate change impacts within the framework of water resources management Decision making in the water sector under changing climate and related uncertainties and societal water security under altering and fluctuating climate are also discussed Several case studies are included from several basins cities regions and countries in both developed and non developing countries This book was published as a special issue of the International Journal of Water Resources Development      **The State of the World's Land and Water Resources for Food and Agriculture 2021 - Systems at breaking point** Food and Agriculture Organization of the United Nations, 2022-05-11 Satisfying the changing food habits and increased demand for food intensifies pressure on the world's water land and soil resources However agriculture bears great promise to alleviate these pressures and provide multiple opportunities to contribute to global goals Sustainable agricultural practices lead to water saving soil conservation sustainable land management conservation of natural resources ecosystem and climate change benefits Accomplishing this requires accurate information and a major change in how we manage these resources It also requires complementing efforts from outside the natural resources management domain to maximize synergies and manage trade offs The objective of SOLAW 2021 is to build awareness of the status of land and water resources highlighting the risks and informing on related opportunities and challenges also underlining the essential contribution of appropriate policies institutions and investments Recent assessments projections and scenarios from the international community show the continued and increasing depletion of land and water resources loss of biodiversity associated degradation and pollution and scarcity in the primary natural resources SOLAW 2021 highlights the major risks and trends related to land and water and presents means of resolving competition



among users and generating multiple benefits for people and the environment The DPSIR framework was followed in order to identify the Drivers Pressures Status Impact and Responses SOLAW 2021 provides an update of the knowledge base and presents a suite of responses and actions to inform decision makers in the public private and civil sectors for a

transformation from degradation and vulnerability toward sustainability and resilience **Drought characteristics and management in Central Asia and Turkey** Food and Agriculture Organization of the United Nations,2018-06-28 The report assesses the occurrence and impacts of drought the current policies underlying drought management as well as the mitigation measures and responses adopted in Central Asia and Turkey with a focus on Agriculture Sector It is part of a series of similar studies carried out in different regions and countries of the world with the objective of shedding light on drought effects sensitizing policy makers for the much needed paradigm shift to pro active drought management planning and providing guidance for the development of such policies The studies are carried out by FAO in collaboration with the Water for Food Institute University of Nebraska Lincoln USA as a direct contribution to FAO s Strategic Objective Increasing the resilience of livelihoods to threats and crises **Methods and Tools for Drought Analysis and Management**

Giuseppe Rossi,Teodoro Vega,Brunella Bonaccorso,2007-07-26 Implementation of effective drought management policies requires both advanced technologies and appropriate methods Monitoring and forecasting systems practical tools for risk assessment as well as simple and objective criteria to select and implement appropriate drought mitigation measures are key elements for a successful drought management strategy These key issues have been tackled by universities and public agencies involved in the EU projects Sedemed and Sedemed II Programme Interreg IIIB MEDOCC aimed at the definition of an integrated network for real time monitoring of drought the development of common methodologies for drought analysis and forecasting as well as the definition of proper mitigation strategies for the Mediterranean countries The book presents the main outcomes of such projects with a special focus on drought monitoring and forecasting techniques at different spatial scales new or modified agrometeorological indices and remote sensing technique for drought identification and characterization tools to improve surface water resources management under drought conditions methods and tools for groundwater resources monitoring and management based on hydrogeological and hydrodynamics characteristics of aquifers general criteria to select and implement mitigation strategies to prevent or minimize drought impacts **Water Safety,**

**Security and Sustainability** Ashok Vaseashta,Carmen Maftai,2021-07-14 This book focuses on threats especially contaminants to drinking water and the supply system especially in municipalities but also in industrial and even residential settings The safety security and suitability landscape can be described as dynamic and complex stemming from necessity and hence culpability due to the emerging threats and risks vis a vis globalization resulting in new forms of contaminants being used due to new technologies The book provides knowledge and guidance for engineers scientists designers researchers and students who are involved in water sustainability and study of security issues This book starts out with basics of water usage

current statistics and an overview of water resources. The book then introduces different scenarios of safety and security and areas that researchers need to focus on. Following that, the book presents different types of contaminants: inadvertent, intentional, or incidental. The next section presents different methodologies of contamination sensing, detection, and remediation strategies as per guidance and standards set globally. The book then concludes with selected chapters on water management, including critical infrastructure that is critical to maintaining safe water supplies to cities and municipalities. Each chapter includes descriptive information for professionals in their respective fields. The breadth of chapters offers insights into how science, physical, natural, and social, and technology can support new developments to manage the complexity resident within the evolving threat and risk landscape.

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