



# DEVELOPMENTS IN WATER SCIENCE

## 48

Editors:

LENA M. TALLAKSEN

HENNY A.J. VAN LANEN

## HYDROLOGICAL DROUGHT PROCESSES AND ESTIMATION METHODS FOR STREAMFLOW AND GROUNDWATER



# Hydrological Drought Volume 48 Processes And Estimation Methods For Streamflow And Groundwater Developments

**Abdelazim M. Negm, Martina  
Zeleňáková**



## **Hydrological Drought Volume 48 Processes And Estimation Methods For Streamflow And Groundwater Developments:**

**Hydrological Drought** Lena M. Tallaksen, Henny A.J. van Lanen, 2023-09-17 Hydrological Drought Processes and Estimation Methods for Streamflow and Groundwater Second Edition provides a comprehensive review of processes and estimation methods for streamflow and groundwater drought. It includes a qualitative conceptual understanding of drought features and processes, a detailed presentation of estimation methods and tools, practical examples, and impacts relevant for operational practice. The drought phenomenon and its diversity across the world are illustrated using a global set of daily streamflow series, whereas regional and local aspects of drought are studied using a combination of hydrological time series and catchment information. Hydrological Drought Processes and Estimation Methods for Streamflow and Groundwater Second Edition concludes with human impacts, including climate change impacts on drought, drought forecasting, and early warning, and examples of procedures on how to manage water during drought. The majority of the examples are taken from regions where the rivers run most of the year but not exclusively. The material presented ranges from well-established knowledge and analysing methods to recent developments in drought research. Its nature varies accordingly from a more traditional textbook and clear overview to that of a research paper which introduces recent approaches and methodologies for drought analysis. Includes a number of innovative tools, self-guided tours, worked examples, and software to support both the understanding and teaching of different methods for evaluating drought severity, human impacts, ecological effects of drought, and regional methods that enable estimation. Offers applications, demonstrations using a comprehensive database of streamflow and thematic data from a large number of national and international agencies which illustrate how data are used when evaluating drought severity. Presents the state of the art of hydrological drought, including well-established knowledge as well as recent developments in drought research. [Integrated Drought Management, Volume 1](#) Vijay P. Singh, Deepak Jhajharia, Rasoul Mirabbasi, Rohitashw Kumar, 2023-09-12 The first volume of this comprehensive global perspective on Integrated Drought Management is focused on understanding drought causes and the assessment of drought impacts. It explains different types of drought: agricultural, meteorological, hydrological, and socioeconomic droughts; their indices; and the impact of climate change on drought. The volume also examines spatiotemporal analysis of drought variability and patterns, assessment, and drought evaluation. With numerous case studies from India, Mexico, Turkey, Brazil, US, and other countries, this volume serves as a valuable resource for all readers who want to advance their knowledge on drought and risk management. Features: Provides a global perspective on drought prediction and management and a synthesis of the recent state of knowledge. Covers a wide range of topics from essential concepts and advanced techniques for forecasting and modeling drought to societal impacts, consequences, and planning. Presents numerous case studies with different management approaches from different regions and countries. Addresses how climate change impacts drought, the increasing challenges

associated with managing drought decision making and policy implications Includes contributions from hundreds of experts around the world Professionals researchers academics and postgraduate students with knowledge in environmental sciences ecology agriculture forestry hydrology water resources engineering and earth sciences as well as those interested in how climate change impacts drought management will gain new insights from the experts featured in this two volume handbook

*Handbook of Drought and Water Scarcity* Saeid Eslamian, Faezeh A. Eslamian, 2017-07-20 This volume includes over 30 chapters written by experts from around the world It examines the environmental aspects of drought such as groundwater and soil contamination river low flow urban water quality and desertification It also examines the effects of climate change and variability on drought and discusses the differences in groundwater rainfall and temperatures and their related effects It presents analytical modeling for better understanding drought in uncertain and changing climates **Drought** Ana Iglesias, Dionysis Assimacopoulos, Henny A.J. Van Lanen, 2018-11-05 Comprehensive coverage of understanding prevention and risk management of extreme drought events with examples of approaches followed in water stressed regions This book describes the progress made in our understanding of severe drought and explains how we can deal with and even avoid complete devastation brought on by such punishing events It brings forward advanced knowledge on drought hazard analysis and management particularly from EU funded research projects to assist in the development of the corresponding drought management plans In addition this book addresses issues of social vulnerability to drought and science policy interfaces which are important elements of drought management Divided into three sections this book covers the diagnosis of physical processes historic drought and the trends in historic drought and perspectives of future drought It takes 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 socio economic instruments for risk mitigation It also discusses the interactions that have resulted in the complex institutional framework and highlights the importance of stakeholder involvement and awareness building for successful drought management In addition *Drought Science and Policy* features a collection of case studies that include the description of effective measures taken in the past Addresses the growing issue of drought preparedness planning monitoring and mitigation Teaches methodologies and lessons focused on specific drought prone regions so the applications have more significance Provides examples of approaches followed in water stressed regions river basin and national scale with drought analyses at the pan European scale *Drought Science and Policy* will be an invaluable reference for researchers and practitioners in the field as well as Masters students taking relevant courses in drought management and natural disaster management *Progress in Modern Hydrology* John C. Rodda, Mark Robinson, 2015-08-26 Hydrology is vital to human civilisations as well as to natural ecosystems yet it has only emerged as a distinct scientific discipline during the last 50 years or so This book reviews the development of modern hydrology primarily through the experiences of the multidisciplinary team of scientists and engineers at Wallingford near Oxford who have been

at the forefront of many of the developments in UK hydrological research These topics include The development of basic understanding through the collection of data with specialised instrumentation in experimental basins The study of extreme flows both floods and droughts The role moisture in the soil Studies of the processes controlling evaporation Water resource studies Modelling and prediction of the extremes of flow improved Understanding of water quality issues A widening recognition of the importance of an ecosystem approach Meeting the challenges of climate change Data handling Future developments in hydrology and the pressures which generate them Readership hydrologists in both academia and a wide range of applied fields such as civil engineering meteorology geography and physics as well as advanced students in earth science environmental science and physical geography programmes worldwide

### **Hydrology and Hydrologic Modelling**

P. V. Timbadiya, P. L. Patel, Vijay P. Singh, Priyank J. Sharma, 2023-05-01 This book comprises the proceedings of the 26th International Conference on Hydraulics Water Resources and Coastal Engineering HYDRO 2021 focusing on broad spectrum of emerging opportunities and challenges in the field of hydrology and hydrological modelling It covers a range of topics including but not limited to ground water modelling and management integrated water resources and watershed management surface water hydrology drought assessment and mitigation risk reliability and design of hydrologic system etc Presenting recent advances in the form of illustrations tables and text it offers readers insights for their own research In addition the book addresses fundamental concepts and studies in the field of hydrology and hydrological modelling making it a valuable resource for both beginners and researchers wanting to further their understanding of hydraulics water resources and coastal engineering

Runoff Prediction in Ungauged Basins Günter Blöschl, 2013-04-18 A synthesis of international catchment hydrology research for researchers and professionals in hydrology soil science and environmental and civil engineering

**Climate Variability and Change** Flow Regimes from International Experimental and Network Data (Project), 2006 This volume contains 117 reviewed papers from over 30 countries published in English French and Spanish which reflect both international dimension of FRIEND and the key challenges facing hydrologists in the 21st century

**Surface- and Groundwater Quality Changes in Periods of Water Scarcity** Miloš Gregor, 2012-09-14 This thesis deals with the evaluation of surface and groundwater quality changes in the periods of water scarcity in river catchment areas The work can be divided into six parts Existing methods of drought assessment are discussed in the first part followed by the brief description of the software package HydroOffice designed by the author The software is dedicated to analysis of hydrological data separation of baseflow parameters of hydrological drought estimation recession curves analysis time series analysis The capabilities of the software are currently used by scientist from more than 30 countries around the world The third section is devoted to a comprehensive regional assessment of hydrological drought on Slovak rivers followed by evaluation of the occurrence course and character of drought in precipitation discharges base flow groundwater head and spring yields in the pilot area of the Nitra River basin The fifth part is focused on the assessment of changes in surface and

groundwater quality during the drought periods within the pilot area Finally the results are summarized and interpreted and rounded off with an outlook to future research

**Groundwater Response to Changing Climate** Makoto Taniguchi, Ian P. Holman, 2010-01-12 Groundwater systems are vital to both society and the environment supporting food production and many other ecosystem services Sustainable management of this vital resource for future generations requires a sound understanding of how groundwater might respond to the inevitable changes in future climate In this volume recent developments within

**Hydrometeorology** Kevin Sene, 2015-12-09 This second edition explores some of the latest techniques used to provide forecasts for a wide range of water related applications in areas such as floods droughts water resources and environmental impacts The practical uses can range from decisions on whether to issue a flood warning through to providing longer term advice such as on when to plant and harvest crops or how to operate reservoirs for water supply and hydropower schemes It provides an introduction to the topic for practitioners and researchers and useful background for courses in areas such as civil engineering water resources meteorology and hydrology As in the first edition the first section considers topics such as monitoring and forecasting techniques demand forecasting and how forecasts are interpreted when issuing warnings or advice Separate chapters are now included for meteorological and catchment monitoring techniques allowing a more in depth discussion of topics such as weather radar and water quality observations The chapters on meteorological and hydrological forecasting now include a greater emphasis on rainfall forecasting and ensemble and probabilistic techniques Regarding the interpretation of forecasts an updated chapter discusses topics such as approaches to issuing warnings and the use of decision support systems and risk based techniques Given the rapid pace of development in flash flood forecasting techniques flash floods and slower responding riverine floods are now considered in separate chapters This includes more detail on forecasting floods in large river basins and on methods for providing early warnings of debris flows surface water flooding and ice jam and dam break floods Later chapters now include more information on developing areas such as environmental modelling and seasonal flow forecasting As before examples of operational systems are provided throughout and the extensive sets of references which were a feature of the first edition have been revised and updated Key themes floods droughts meteorological observations catchment monitoring meteorological forecasts hydrological forecasts demand forecasts reservoirs water resources water quality decision support data assimilation probabilistic forecasts Kevin Sene is a civil engineer and researcher with wide experience in flood risk management water resources and hydrometeorology He has previously published books on flood warning forecasting and emergency response and flash floods Springer 2008 2013

*Groundwater-Surface Water Interactions* Habil. Jörg Lewandowski, Karin Meinikmann, Stefan Krause, 2020-12-10 Recent years have seen a paradigm shift in our understanding of groundwater surface water interactions surface water and aquifers were long considered discrete separate entities they are now understood as integral components of a surface subsurface continuum This book provides an overview of current

research advances and innovative approaches in groundwater surface water interactions The 20 research articles and 1 communication cover a wide range of thematic scopes scales and experimental and modelling methods across different disciplines hydrology aquatic ecology biogeochemistry and environmental pollution The book identifies current knowledge gaps and reveals the challenges in establishing standardized measurement observation and assessment approaches It includes current hot topics with environmental and societal relevance such as eutrophication retention of legacy and emerging pollutants e.g. pharmaceuticals and microplastics urban water interfaces and climate change impacts The book demonstrates the relevance of processes at groundwater surface water interfaces for 1 regional water balances and 2 quality and quantity of drinking water resources As such this book represents the long awaited transfer of the above mentioned paradigm shift in understanding of groundwater surface water interactions from science to practice

**Hydrological Extremes** Ashish Pandey, S.K. Mishra, M.L. Kansal, R.D. Singh, V. P. Singh, 2020-11-07 This book presents quality technical papers representing the recent developments in the field of hydrological modeling water management and water governance including practical applications The content covers multifarious aspects of hydrology and water resources It includes an application of the Hydrologic Modelling System HEC HMS which has been successfully demonstrated for assessment of floods The authors suggest an approach for the mitigation of cyclone disaster through a case study of the Phailin cyclone whilst considering mitigating pluvial flooding developing suitable management strategies The book includes chapters discussing the detrended fluctuation analysis which is carried out for multifractal description of droughts Drought characteristics are analyzed and drought indices evolved for drought preparedness management The use of science in community planning under changing climate is also studied and discussed The authors present an experimental study wherein hydraulic coefficients are calibrated by using vertical orifice A cross flow hybrid hydrokinetic turbine is also evaluated for performance and high head regulating radial gate designed and studied its sensitivity This book will appeal to researchers field practitioners NGO and other Governmental as well as private water practitioners

**Drought: Research and Science-Policy Interfacing** Joaquin Andreu, Abel Solera, Javier Paredes-Arquiola, David Haro-Monteagudo, Henny van Lanen, 2015-02-12 Droughts occur in arid and semi arid areas of the world but also in humid areas and can develop over short periods flash drought or longer periods seasons decades Even though progress has been made it remains difficult to adequately characterize monitor forecast and manage droughts due to their multi faceted nature Usually drought does

**Management of Water Resources in Poland** Martina Zelenáková, Katarzyna Kubiak-Wójcicka, Abdelazim M. Negm, 2021-01-23 This book contains a rich resource of essential information on the water resources capacities in Poland This book contributes to the recognition of water resources management including extreme hydrological events such as floods and droughts The book incorporates case studies illustrating solutions of water quantity management in Poland This edited book covers all water bodies in the country including rivers lakes reservoirs and groundwater The novelty of this book

is that it represents the first time a manuscript covers the assessment of water resources in Poland including variability availability and economic use of the hydrological resources in the country with the lowest renewable resources of surface water per inhabitant in Europe Given the depth and breadth of its coverage the book offers engineers researchers policy planners decision makers and stakeholders essential new insights into efficient water resources management **Open**

**Channel Hydraulics, River Hydraulic Structures and Fluvial Geomorphology** Artur Radecki-Pawlik,Stefano

Pagliara,Jan Hradecky,2017-09-07 This book presents practical hydraulic and river engineering research along with fluvial geomorphological concepts and links the theoretical and practical knowledge of people working every day with rivers streams and hydraulic structures to fluvial geomorphology Besides providing a guide for professionals this book also provides material for students to acquire the knowledge and skills to rehabilitate rivers streams and waterways **Water Resources**

**in Slovakia: Part II** Abdelazim M. Negm,Martina Zeleňáková,2018-12-08 This book offers up to date information on the impact of climate change on water resources in Slovakia the occurrence of drought and floods hazards and protection methods The topics covered include hydrological extremes such as droughts and flood in Slovakia risk assessment and protection sustainable management and water management in buildings The closing chapter provides general conclusions and recommendations for future research It appeals to graduate students and researchers as well as to decision makers involved in planning future water resources in Slovakia Applied Drought Modeling, Prediction, and Mitigation Zekâi

Şen,2015-08-03 Applied Drought Modelling Prediction and Mitigation provides a practical guide to new and recent methodologies for drought characterizations change modeling down scaling and future predictions The modeling procedures covered by the book include recent advancements in regional drought extent coverage intensity and water deficit predictions which are increasingly significant given current climate change impacts on water resources Each modeling procedure is explained theoretically prior to the mathematical derivation and includes book examples exercises and case studies that supplement the applied and practical material thus making the approaches accessible and applicable to the reader Presents new and recent methodologies for drought characterizations change modeling down scaling and future predictions Includes online modeling tools to help readers quickly solve drought related problems Presents methodologies including drought features duration intensity and magnitude at any desired risk level Include case studies from arid and semi arid regions

**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

**H2Karst Research in Limestone Hydrogeology** Jacques Mudry, François Zwahlen, Catherine Bertrand, James W. LaMoreaux, 2014-05-17 Chapters in this book are contributions from the 9th Conference on limestone hydrogeology organized in Besan on in September 2011 selected by the scientific committee of H2Karst The book presents latest results on in the field of groundwater flow and storage within the different subsystems of karst aquifers insights into the complex interaction between groundwater and surface water in karst areas by a multidisciplinary approach current knowledge on contamination problems and contaminant transport in karst aquifers as well as an overview of karst hydrogeology in different contexts around the world

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