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# SUBSURFACE HYDROLOGICAL RESPONSES TO LAND COVER AND LAND USE CHANGES

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*edited by*

**Makoto Taniguchi**

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# Subsurface Hydrological Response To Land Cover And Land Use Changes

**Bruce Lankford, Karen Bakker, Mark  
Zeitoun, Declan Conway**



## **Subsurface Hydrological Response To Land Cover And Land Use Changes:**

**Subsurface Hydrological Responses to Land Cover and Land Use Changes** Makoto Taniguchi, 2012-12-06 Since human beings first appeared on the earth we have changed land cover and land use for our own purposes such as conveniences and high productivity. As a result of the land cover and land use changes, many serious environmental problems occur on the earth. Studying meteorological and hydrological effects of vegetation and land cover use changes helps us to understand the environmental changes and problems happening near the earth surface because the vegetation distributes the solar energy and water on the earth surface into atmosphere and geosphere. Subsurface hydrological responses to land cover and land use changes have drawn only regional environmental concerns although global change caused by biosphere change has been studied in various scientific fields. The changes in land cover and land use alter water solute and heat cycles in basins and elements of those balances including evapotranspiration, groundwater recharge rate, discharge rates into rivers or ocean, and soil moisture content, which are directly or indirectly related to the global environmental issues. Therefore, the changes in biosphere may substantially alter the subsurface hydrological system. For instance, increased groundwater recharge rates following clearing forest into grasses might be one consequence resulting in rising water tables and salinization.

*Subsurface Hydrological Responses to Land Cover and Land Use Changes* Makoto Taniguchi, 2011-09-26

Since human beings first appeared on the earth we have changed land cover and land use for our own purposes such as conveniences and high productivity. As a result of the land cover and land use changes, many serious environmental problems occur on the earth. Studying meteorological and hydrological effects of vegetation and land cover use changes helps us to understand the environmental changes and problems happening near the earth surface because the vegetation distributes the solar energy and water on the earth surface into atmosphere and geosphere. Subsurface hydrological responses to land cover and land use changes have drawn only regional environmental concerns although global change caused by biosphere change has been studied in various scientific fields. The changes in land cover and land use alter water solute and heat cycles in basins and elements of those balances including evapotranspiration, groundwater recharge rate, discharge rates into rivers or ocean, and soil moisture content, which are directly or indirectly related to the global environmental issues. Therefore, the changes in biosphere may substantially alter the subsurface hydrological system. For instance, increased groundwater recharge rates following clearing forest into grasses might be one consequence resulting in rising water tables and salinization.

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of groundwater and of saltwater intrusion in the Nile Delta aquifer Excessive pumping and groundwater quality assessment for irrigation and drinking purposes Groundwater management for sustainability in the Nile Delta The volume appeals to postgraduate students researchers scientists professionals decision makers and planners Understanding the Impact of Human Interventions on the Hydrology of Nile Basin Headwaters, the Case of Upper Tekeze Catchments Tesfay Gebremicael,2019-11-26 The availability and distribution of water resources in catchments are influenced by various natural and anthropogenic factors Human induced environmental changes are key factors controlling the hydrological flows of semi arid catchments Land degradation water scarcity and inefficient utilization of available water resources continue to be important constraints for socio economic development in the headwater catchments of the Nile river basin in particular over the Ethiopian Catchments This research investigates the impact of landscape anthropogenic changes on the hydrological processes in the Upper Tekeze basin A tributary of the Nile The hydrology of the basin is investigated through analysis of hydro climatic data remote sensing techniques new field measurements and parsimonious hydrological models The empirical evidence provided in this book confirms that human induced environmental changes can significantly change the hydrology of catchments both in negative degradation and in positive restoration ways This book also shows that rainfall runoff relationships in semi arid catchments are non uniform and hence the application of hydrological models in such catchments need special attention Moreover parsimonious dynamic hydrological model improves our understanding of the hydrological response to dynamic environmental changes **Sustainability Science for Watershed Landscapes** James Roumasset, Kimberly M. Burnett, Arsenio Molina Balisacan, 2010 Proceedings from the International Conference on Sustainability Science for Watershed Landscapes held in Honolulu Hawaii in November 2007 **Water** Peter H. Gleick, 2000 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 **Challenges of the New Water Policies for the XXI Century** Enrique Cabrera, Ricardo Cobacho, 2004-06-23 The concept of sustainable development appeared almost twenty years ago adapting traditional policies to new circumstances and promoting progress capable of satisfying the necessities of both present and future generations It is widely believed that the need for a proper and sustainable management of water will be a problem which Water Resources Management , 1996-02 **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

**Navigating the Nexus** Aliva Nanda, Pankaj Kumar Gupta, Vivek Gupta, Prakash Kumar Jha, Swatantra Kumar Dubey, 2025-02-01 This book encompasses updated information as well as future directions for researchers working in the fields of environmental science water resource engineering and agricultural science Navigating the Nexus Hydrology Agriculture Pollution and Climate Change focuses on the thematic areas of water resource agriculture and environmental domains This book covers advances in modelling approaches including Machine Learning ML Artificial Intelligence AI applications GIS and remote sensing and sensors to provide hydrological agricultural and environmental solutions during the ongoing climate crisis

Interpreting the Impacts of Land Use on Water Quality Using Groundwater Flow and Transport Simulations in the Grand Traverse Bay Watershed David Francis Boutt, 1999

**The 6th International Symposium on Water Resource and Environmental Management** Haoqing Xu, 2024-04-29 This book is designed to be the introductory work in the Water Energy Environment Governance from Interdisciplinary Perspectives Series and provides an in depth look at sustainable development and management in the water sector across The water energy environment nexus WEEN represents important interstate connections of water energy and the environment Present day water and energy systems are interdependent Water is used in all phases of energy production and electricity generation Energy is required to extract convey and deliver water of appropriate quality for diverse human uses and then again to treat waste waters prior to their return to the environment Security in water energy and the environment is associated with human economic and environmental sustainability This interweaving is strengthening under aggregating natural resource scarcity and climate change This book includes selected papers from the 6th International Symposium on Water Resource and Environmental Management WREM 2023 and consists of themes pertaining to water resource and environmental management It provides readers with comprehensive information and formulation of

solutions leading to a set of Water Energy Environment Governance from Interdisciplinary Perspectives through our forum and the publication of your research As a reference it is of interest to students scientists engineers government officials and water resource managers

**Water Security** Bruce Lankford, Karen Bakker, Mark Zeitoun, Declan Conway, 2013-10-15 The purpose of this book is to present an overview of the latest research policy practitioner academic and international thinking on water security an issue that like water governance a few years ago has developed much policy awareness and momentum with a wide range of stakeholders As a concept it is open to multiple interpretations and the authors here set out the various approaches to the topic from different perspectives Key themes addressed include Water security as a foreign policy issue The interconnected variables of water food and human security Dimensions other than military and international relations concerns around water security Water security theory and methods tools and audits The book is loosely based on a masters level degree plus a short professional course on water security both given at the University of East Anglia delivered by international authorities on their subjects It should serve as an introductory textbook as well as be of value to professionals NGOs and policy makers

**Handbook of Water Resources Management: Discourses, Concepts and Examples** Janos J. Bogardi, Joyeeta Gupta, K. D. Wasantha Nandalal, Léna Salamé, Ronald R.P. van Nooijen, Navneet Kumar, Tawatchai Tingsanchali, Anik Bhaduri, Alla G. Kolechkina, 2021-06-12 This book provides an overview of facts theories and methods from hydrology geology geophysics law ethics economics ecology engineering sociology diplomacy and many other disciplines with relevance for concepts and practice of water resources management It provides comprehensive but also critical reading material for all communities involved in the ongoing water discourses and debates The book refers to case studies in the form of boxes sections or as entire chapters They illustrate success stories but also lessons to be remembered to avoid repeating the same mistakes Based on consolidated state of the art knowledge it has been conceived and written to attract a multidisciplinary audience The aim of this handbook is to facilitate understanding between the participants of the international water discourse and multi level decision making processes Knowing more about water but also about concepts methods and aspirations of different professional disciplinary communities and stakeholders professionalizes the debate and enhances the decision making

*Afrotropical Streams and Rivers* Tatenda Dalu, Frank Masese, 2024-11-09 The Afrotropical Streams and Rivers Structure Ecological Processes and Management is a comprehensive guide that provides assessment of major rivers and tributaries in Africa Unlike other books available the editors present a thorough study of geomorphological hydrological biological and ecological processes incorporating a range of plant and animal communities while considering implications of human communities that depend upon them This book edited by a diverse cohort of researchers and or scholars is intended as an educational and practical guide for graduate students researchers and scientists who focus on the biodiversity conservation and management policy issues of the African river systems Provides a comprehensive introduction to African freshwater rivers their biota and abiotic processes Contains unique case studies on African streams and rivers



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