

Special Issue

On the Concerted Adaptation of Soil, Water and Vegetation to Water Management and Climate Change

Message from the Guest Editors

In rural areas, available freshwater resources are increasingly under pressure due to the growing competition of land use functions for available water. Both natural vegetation and agricultural crops depend largely on soil moisture conditions in the root zone. Climate change leads to more prolonged drought periods that alternate with more intensive rainfall events. With unaltered water management practices, this may result in a severe reduction of crop yields and plant biodiversity. These risks can partly be avoided by adapting the groundwater and surface water regime. This Special Issue is seeking contributions focussing on i) a better understanding of interacting processes in the groundwater–soil–plant–atmosphere system, both of natural vegetation and crops, ii) effects of climate change on the future freshwater availability for nature and agriculture, iii) adaptive measures to anticipate and adapt to limited freshwater availability, and iv) integrated approaches to optimize freshwater availability for all land use functions.

Guest Editors

Prof. Dr. ir. Jan-Philip M. Witte

KWR Watercycle Research Institute, Nieuwegein, Netherlands; System Ecology Group, Faculty of Science, Vrije Universiteit Amsterdam, Amsterdam, Netherlands

Dr. ir. Ruud P. Bartholomeus

KWR Watercycle Research Institute, Nieuwegein, the Netherlands; Soil Physics and Land Management, Wageningen University, Wageningen, the Netherlands

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

Dr. Jean-Luc PROBST

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Toulouse, France

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