Special Issue

Advances in Paleohydrology Using Remote Sensing

Message from the Guest Editors

Paleohydrology is concerned with the study of past hydrologic systems and their change with climate. The present-day geomorphology of deserts and arid lands still contains evidence of the hydrologic history of these environments, when local climate was wetter. Such evidence, in forms of paleorivers and paleolakes, showing alteration, deposition, and erosion processes, is usually retrieved from field observation, but remote sensing techniques have now matured enough to be able to provide valuable information from space. In particular, radar remote sensing techniques, which are able to image the near subsurface under dry sediments and can produce accurate topography using interferometry, have demonstrated their capacities to map ancient hydrologic systems in desert regions. In addition to their interest in understanding the climate history of current arid environments, such studies also provide key information for the prospecting of fossil water resources. **Keywords** paleohydrology; remote sensing; geomorphology; deserts and drylands; water resources

Guest Editors

Prof. Philippe Paillou

Laboratoire d'Astrophysique de Bordeaux, University of Bordeaux, Bordeaux, France

Dr. Troy Sternberg

School of Geography and the Environment, University of Oxford, Oxford OX2 6HY, UK

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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.

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