

Special Issue

Water Resources Investigation: Geologic Controls on Groundwater Flow

Message from the Guest Editors

The geologic system often exerts considerable control on the surface and subsurface hydrologic system. Stratigraphy, juxtaposition across faults, physical properties of the faults themselves, 3D lithologic heterogeneity of aquifer systems, and variably connected fault-fracture networks can all affect the occurrence, movement, and quality of surface and groundwater. Water resource investigations may evaluate the degree of geologic control on hydrologic phenomenon through conceptualization of the hydrogeologic system, numerical modeling studies. Water resource investigations develop and integrate geologic and hydrologic data at the watershed, basin, or regional scale, requiring expertise and judgement when determining what spatial scale of geologic feature or level of geologic detail to include. This Special Issue invites papers that report on water resource studies in which the geologic setting plays a crucial role. These include regional groundwater assessments, basin-scale groundwater studies, numerical modeling studies that include 3D geologic frameworks, and use of geophysics to better characterize regional aquifer frameworks.

Guest Editors

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Message from the Editor-in-Chief

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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