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Sustainable Management of Aquifers in Semi-Arid Tropics

Guest Editor:

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Deadline for manuscript submissions:
closed (20 January 2020)

Message from the Guest Editor

Semi-arid Tropics areas suffer from increasing surface water scarcity due to population growth and economic activity development. Therefore, groundwater has become an increasingly exploited resource for agriculture irrigation and drinking water supply. A consequence of this is an unbalanced situation between natural recharge and water abstraction, inducing water table depletion. Climate change will impact these tropical areas in various ways, increasing average temperature and changing rainfall patterns. Cost-effective groundwater management solutions are necessary in order to reduce the adverse impacts of these long term trends.

Contributions are expected on the following topics:

- Evaluation of natural recharge in semi-arid areas
- Characterization of groundwater flow in fractured aquifers
- Estimation of groundwater reserves in heterogeneous aquifers
- Managed aquifer recharge cost-benefit analysis
- Climate change impact assessment on groundwater
- Groundwater abstraction regulation
- Groundwater numerical modeling

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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.

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