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Evaluation of Geological Model for Sustainable Utilization and Management of Groundwater Resources

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Message from the Guest Editors

Accurate evaluation of subsurface geological models is essential for sustainable utilization and management of groundwater resources. However, limited data, natural heterogeneity, and data interpretation have been recognized as the primary sources of uncertainties in such models. With decades of developments in measurement technologies and advanced models, much effort has been devoted to reducing uncertainty, mainly focusing on bridging the gaps between available data and accurate geological models. Geology knowledge plays an essential role in characterizing and quantifying uncertainty in various geological models across scales. Ignorance of geological model uncertainty often leads to groundwater and environmental problems, all of which can lead to substantial societal risk. Therefore, it is crucial to characterize and quantify the geological model uncertainty and systematically examine its effect on groundwater resources and environmental issues.

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