



Groundwater–Surface Water Interactions

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Message from the Guest Editor

The interactions between groundwater and surface water occur through various pathways and can affect the physical, chemical, and biological attributes of connected subsurface and surface systems. Groundwater–surface water interactions (GWSWI) are complex and can have significant spatial and temporal variability. The interactions involve the exchange of water volumes, but also of contaminants that are contained or transported with the water via transition zones. These transition zones include areas (or volumes) of surface water bodies (e.g., wetlands, streambeds, lakebeds and seabeds) and adjacent subsurface materials, where the environmental characteristics shift between a surface water dominated system to a groundwater dominated system. These areas can also be subject to intense hydrological and biogeochemical processes, which can be localized (i.e., “hot spots”) or occur during certain periods of time (i.e., “hot moments”)[...]

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Message from the Editor-in-Chief

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