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Hydrological Impact of Typhoon on Rivers

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Message from the Guest Editors

Dear Colleagues,

Rivers link terrestrial and marine ecosystems, not only transporting numerous substances downstream, but also shaping landscapes and fostering aquatic ecosystems through the interactions of biogeochemical processes with numerous agents. In this regard, rainstorms are regarded as an episodic, strong trigger that accelerates riverine transport and causes sequestrational effects. Recently, global warming has accelerated water cycling via thermodynamics and thus the frequency and intensity of extreme events have been enhanced. The intensified extreme events inevitably stimulate the response of river systems through sediment and nutrient transport, as well as the associated biogeochemical processes. Those strong impacts on river systems should be comprehensively explored. This issue aims to improve the understanding of rainstorm effects in river systems. Inter- and cross-discipline studies on different watershed scales, linking ecosystem services and on watershed management are particularly welcome.

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Guest Editors



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