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Effects of Oceanic-Atmospheric Oscillations on Rivers

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Message from the Guest Editors

Dear Colleagues,

Under the influence of the changing climatic conditions caused by the varying intensity of macroscale types of circulation, a river regime may be destabilized and changed into another, sometimes with distinct regularities in the seasonality of high and low waters, thus disturbing the previously established hydro-ecological and water use conditions. Many naturally occurring ocean–atmosphere oscillations in the Pacific, Atlantic, and Indian oceans have been recognized and named. Some of them have a strong impact on climate and weather patterns in many regions of the world. The phenomenon produces marked effects on the various physical processes that govern the surface hydrometeorology of the study area, mainly temperature, precipitation and streamflow. From both a scientific and a practical point of view it is important to investigate in such a way as to enable the identification of flood- and drought-generating processes and their possible linkages with [...]

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