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Special Issue "Toward sustainable watershed management"

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Special Issue Information

There are nine planetary boundaries, first published in 2009, identifying the global priorities maintaining the sustainability of humanity and the ecosystem. They are 1) Climate change, 2) Biosphere integrity (including genetic diversity and functional diversity), 3) Stratospheric ozone depletion, 4) Ocean acidification, 5) Biogeochemical flows (including phosphorus and nitrogen cycle), 6) Land-system change, 7) Freshwater use, 8) Atmospheric aerosol loading, and 9) Introduction of novel entities (e.g. micro-plastics). The scientists think that these nine processes regulate the stability and resilience of the earth system – the interactions of land, ocean, atmosphere and life that together provide the environment that our societies depend on. However, two of the nine, i.e. the biosphere integrity and biogeochemical flow, have gone beyond the identified threshold and threatened the sustainability of the Earth. Sustainable watersheds are small pieces of a jigsaw puzzle, i.e. the Earth. Sustainable watershed management is the key leading to sustainable watersheds and then a sustainable world.

This special issue is looking for studies aiming at the achievement of sustainable watershed, particularly those considering the links between water conservancy and one (or more) of the nine boundaries mentioned above. We also appreciate studies focusing on impact assessment of water resources and water qualities, considering the land-water continuum and surface water-groundwater interaction. Evaluations on the sustainability and resilience of watersheds are invited as well. Studies from modeling work and field survey are both welcomed.

Keywords:

Sustainability
Resilience
Water resources
Water quality
Land-water system

Manuscript Submission Information

http://twc.bse.ntu.edu.tw/submit.html

*Please note that only English manuscripts will be considered

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Global Land Programme 2018 Asia Conference

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