Advances in Meteorology

Special Issue on

Hydrological Processes in Changing Climate, Land Use, and Cover Change

CALL FOR PAPERS

Global environmental change, such as climate change, land use, and land cover change, is significantly influencing hydrological processes from catchment to regional and to global scales, resulting in hydrologic nonstationarity. Therefore, it is urgent to improve our skills or methods to better understand mechanism of hydrological processes under global environmental change. This needs multidisciplinary studies that involve hydrology, meteorology, remote sensing, ecology, etc.

We invite researchers to contribute to original research articles that will stimulate the continuing efforts to understand hydrological processes in changing environment at a scale from catchment to region and to globe. We are particularly interested in articles that (1) introduce new physical/statistical methodologies and new models to simulate hydrological processes in various spatial scales; (2) use new techniques/methods/models to separate climate change, land use, and cover change impact on hydrological processes; (3) predict surface water availability from region to continent and to globe.

Potential topics include, but are not limited to:

- Improving estimates of hydrological processes using various hydrological models (lumped or distributed)
- Detecting trends and variation of hydrological variables, such as runoff, actual evapotranspiration, and soil moisture
- Separating climate change and land use change impacts on runoff
- Predicting catchment and regional water availability in a changing climate
- Investigating ecohydrological links between hydrological variables and various ecosystems
- Measuring or estimating hydrological variables, such as precipitation, evapotranspiration, runoff, and soil moisture in data-sparse regions

Authors can submit their manuscripts via the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/amete/hypro/.

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