

H10: Catchment hydrological and biogeochemical behaviour in human-dominated landscapes

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Session Description

Urban, urbanizing and agricultural landscapes (i.e. where we live and where we get our food from) are ubiquitous across Canada. Alterations to drainage networks and elevated inputs of materials such as nutrients, salts, metals, and organic compounds have fundamentally changed the hydrological and biogeochemical functioning of these areas. The goal of this session is to bring together a broad range of research that examines the impacts of human alterations to the landscape to coupled hydrological and biogeochemical processes. Some themes of interest include, but are not limited to, impacts of extreme weather events on hydro-biogeochemical fluxes, agricultural intensification and the functioning of mixed urban and agricultural basins. Studies that address scaling effects and/or use novel field- and modelling-based approaches to explicitly link water sources and flow pathways to biogeochemical patterns are especially encouraged.

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