

## **CGU\_H\_08: Coupled Hydrological and Biogeochemical Functions, Part I: Wetland Ecosystems**

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### **Session Description**

Wetlands cover large swaths of Canada's landmass and provide many important ecosystem services (i.e., global carbon sink) that are dependent on local hydrobiogeochemical functions. These wetland functions rely on complex interactions between hydrological, biological, and chemical processes. Although individually complex, there is only a basic understanding of how these processes form interrelated feedbacks that regulate wetland function. Furthermore, these governing processes occur from the pore to landscape scales where small changes at one scale can have profound effects at others. It is this interconnectivity between processes and scales that makes wetlands an ideal vehicle to research linked hydrobiogeochemical feedbacks and processes. This session aims to bring together wetland hydrologists, biologists, ecologists, soil scientists, biochemists, and geochemists to share cutting-edge research on all wetlands (i.e., peatlands, marshes, swamps, etc.). In particular, contributions will be welcome that cover integrated research on hydrological fluxes, soil physics, biogeochemical transformations of nutrients and contaminants, carbon fluxes, and wetland ecology and biology that illuminate the interactions between processes and scales. Additionally, we welcome the presentation of new, developing, or novel methodologies, experiments and modelling approaches that highlight these complex integrated processes.

**Primary Affiliation:** CGU, Hydrology

**Joint Session Submission:** CGU, Biogeosciences; CSSS