

## **B08: General Biogeosciences**

**Conveners:** Murray Richardson<sup>1</sup>, and Carl Mitchell<sup>2</sup>

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### **Session Description**

This session will highlight the diversity of research investigating the biogeoscience/biogeochemical functioning of ecosystems. Presentations discussing all aspects of biogeosciences research from recent advances in understanding the fundamental mechanisms underlying processes shaping landscapes to novel methods for modelling them and approaches for monitoring them via both field and remote techniques are encouraged. Sample topics include integrative approaches to describe biogeoscience processes in both natural and managed ecosystems; characterizing measurement and modelling uncertainty in complex and heterogeneous landscapes; scaling linked water/nutrient/element/sediment exchange processes; determining the impacts of changing climate or land use on water/nutrient/element/sediment exchange processes across ecosystems; identifying and evaluating the effects of drought and other extreme weather phenomena on ecosystem form and function; developing novel and improved sensor systems and measurement techniques; and, diagnosing the effects of biota on driving change in landscape form or hydro-biogeochemical functioning.

**Primary Affiliation:** Biogeosciences