Changes in vegetation composition modulate the interactions of climate warming and elevated nitrogen deposition on nitrous oxide flux in a boreal peatland

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Nitrous Oxide (N2O) is a potent greenhouse gas, contributing ~6% of global warming. Northern peatlands with large organic nitrogen (N) storage have the potential to be N2O hotspots under climate warming, elevated N deposition and vegetation composition change caused by climate change. We set up a field experiment to manipulate these three factors. In this talk, I will discuss how N2O fluxes are affected by warming and N addition and how these effects are modulated by vegetation composition changes in a boreal peatland. The interaction of abiotic and biotic factors should be included in projecting N2O fluxes in peatlands.

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