



## **GHG emissions from temperate lowland bog under contrasting land use: insights from the Defra Lowland Bog Project.**

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The Defra lowland peat project was established 3 years ago in response to the estimation that while lowland peat soils represent only 15% of the area of UK peat they represented 75% of the greenhouse gas emissions. The study has considered a range of settings, including: restored raised bog; extracted bare peat; and peat soil converted for arable. The sites were instrumented to cover as complete a range of greenhouse gases as possible and this included N<sub>2</sub>O as well as fluvial carbon fluxes. This talk will review results with particular emphasis on problems of understanding fluvial carbon fluxes from lowland raised bogs where flow directions are complex.