

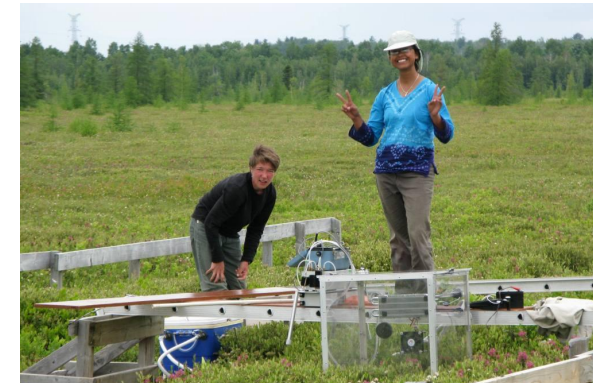
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Does nitrogen deposition lead to a weaker or stronger carbon sink in nutrient-poor peatlands?

- **Vegetation** up to 90% increase in vascular aboveground plant abundance and loss of *Sphagnum* under N addition treatments
- **Net Ecosystem CO₂ Exchange**: the bog and fen show contrasting patterns



Mer Bleue Bog, Ottawa, Canada

NH₄NO₃
at 1.6-6.4 g N m⁻² y⁻¹

Since 2000
Ericaceous shrubs dominate,
Light saturated **NEE +200%**



Degerö Stormyr fen, Vindeln, Sweden

NH₄NO₃
at 3.0 g N m⁻² y⁻¹

Since 1995
Sedges dominate
Light saturated **NEE -70%**

Canada



