

### **Greenhouse gas evasion from ephemeral streams: A missing link in the Swedish carbon balance**

The evasion of CO<sub>2</sub> from streams and lakes has been recognized as an important component in the carbon balance of landscapes. So far, however, it has not been possible to define the role of temporary streams that only flow during periods of high flow, such as during spring snowmelt or after intense rainfall. A unique set of greenhouse gas measurements from such temporary streams has been collected at an SLU research forest. This project will evaluate those data to determine how much these temporary streams contribute to the loss of CO<sub>2</sub> from the landscape. These losses are expected to be significant and of importance for future calculations about the Swedish carbon budget.

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