

The longitudinal water quality patterns in agricultural streams

Credits: 30 credits
Level: Master
Subject: Environmental Science
Start: Anytime, however the sampling will be conducted January-September

Background

Water quality in agricultural streams is a function of landscape characteristics, mainly soils and their management, subsurface geology, and climate. Typical water quality monitoring involves point measurements with grab sampling. In this project, we investigate how water quality changes along the selected agricultural streams in Sweden using automated high-resolution water quality sensors.



Objectives

To measure and evaluate patterns in water quality in streams along longitudinal transects. To link longitudinal water quality patterns with existing datasets of catchment characteristics to provide a conceptual model of water quality controls in agricultural streams.

Performance

The work involves:

- Field and laboratory measurements,
- Statistical analysis of a large chemical dataset and GIS analysis of spatial data,
- Literature review and report writing.

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