

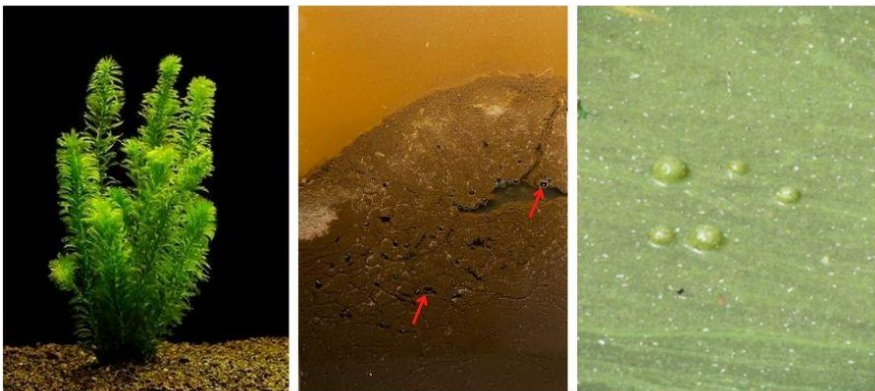


DOES THE BIOTURBATING ROLE OF MACROPHYTES AFFECT THE METHANE PRODUCTION IN FRESHWATER SEDIMENTS?

INTERSHIP OPPORTUNITY
AT THE DEPARTMENT OF AQUATIC ECOLOGY AND ENVIRONMENTAL BIOLOGY

AIM OF THE PROJECT

*Methane is the second most important greenhouse gas in the atmosphere and inland waters are its main natural source. This gas is produced in the sediment through microbial communities where it accumulates forming bubbles. Therefore, understanding how bubble release is affected by organisms that impact sediment processes (i.e., bioturbators) in inland waters is of great interest in this project, we aim to test sediment(s) with one bioturbating macrophyte (e.g., *Egeria* sp.) to link its activity on methane production, bubble formation, and emission. The outcome of this experimental set-up will give first insights into the key role of plants as bioturbating organisms in aquatic systems that act as major methane hotspots.*



ARE YOU INTERESTED? CONTACT US:

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WHAT YOU ARE GOING TO LEARN?

As our intern, you will have the opportunity to work in an experimental setup at the greenhouse in Radboud University. You will gain practical knowledge on different methodologies such as measuring GHG emissions, imaging techniques to evaluate microorganisms, visually monitoring the gas bubbles in the sediment among others. We are looking for enthusiastic and proactive students who are eager to work in ecology experiments and learn new methodologies. Approx. starting date: October - November 2022. We are also open to discuss any of your interests and ideas to come up with a suitable internship project for either BSc or MSc level.

