Evaluation of spatial distribution probability of mussels in rivers and the potential hydraulic drivers

Master Thesis Environmental Engineering

Mussel populations in rivers group themselves at special places in such river. This choice of a habitat can not only be driven by water chemistry. To identify other potential drivers we will

a) Collect information on mussel populations in rivers and map such populations (field study)

b) Collect hydraulic data in the respective areas using the ADCP (field study)

c) Run a numerical simulation (Telemac or Flow3D) to model the hydraulic status for different relevant discharges

This work will be conducted together with the Chair of Aquatic Systems Biology at WZW and the Muschelkoordination Bayern.

As some of the relevant literature might be in German the understanding of such is necessary for this work.

Previous knowledge of one of the software tools is useful but not mandatory.

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