

Hydromussel Project

Integrating remote sensing into freshwater pearl mussel conservation and management

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Introduction

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Hydromussel Project

Collaboration Evelyn Moorkens & Jeremy Piggott

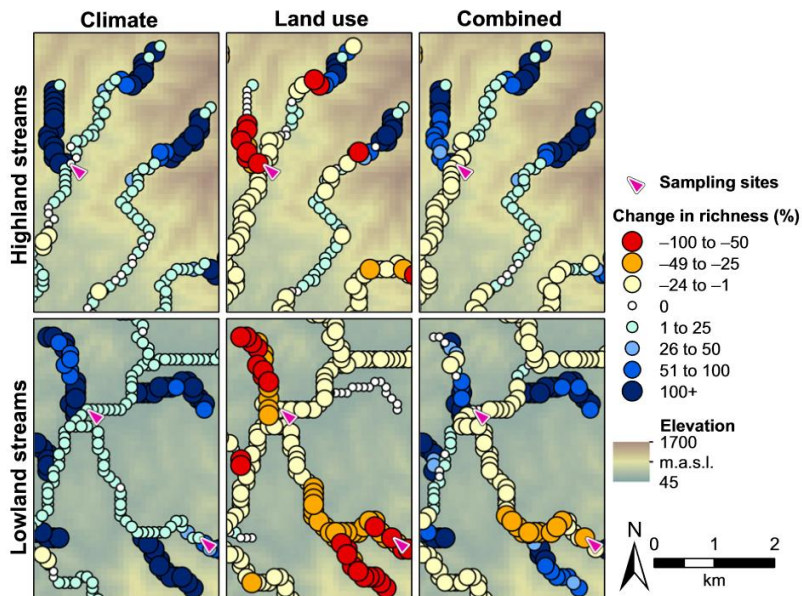
- *Which anthropogenic pressures affect biodiversity and to what extent?*
- *Is the distribution range of a given species impaired by anthropogenic pressures?*
- *Which management measures have the highest potential for the effective conservation of a given species?*

Hydromussel Project - Goals

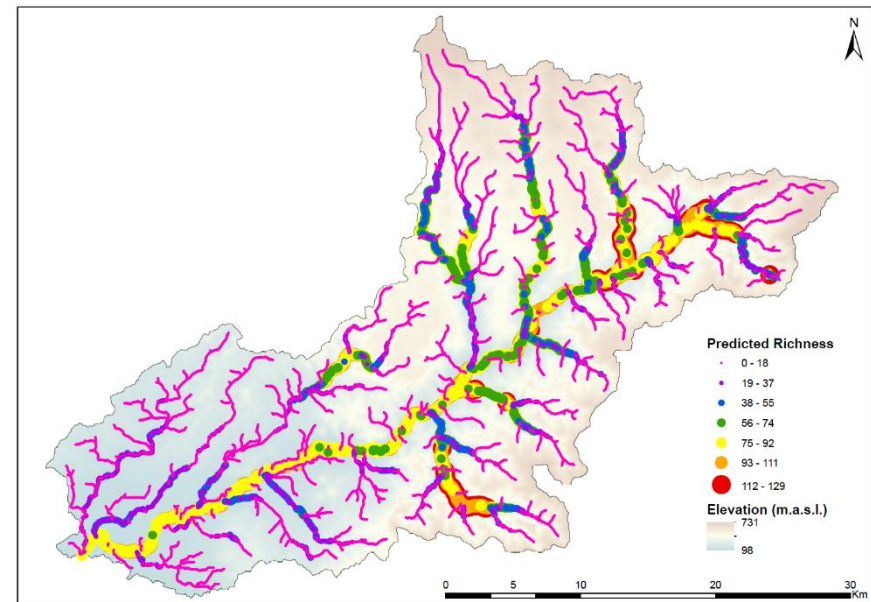
- Understand threats to freshwater pearl mussel populations, in particular changes to the natural **hydrological regime**
- Explore the potential of **remote sensing** data as a source for hydrological variables
- Provide insights that can be applied to a more efficient **management** and the successful **conservation** of existing freshwater pearl mussel populations
- Focus on a subset of 8 catchments, which are *Special Areas of Conservation (SACs)*

I'd be glad to have a chat if you...

- ... have worked with freshwater pearl mussel in Ireland before
- ... are aware of relevant hydrological data
- ... have experience working with remote sensing data in Ireland
- ... are interested in our project
- ... work with species distribution models (SDMs)



(Kuemmerlen et al. 2015, Freshw. Bio.)



(Kuemmerlen et al. 2016, Ecol. Ind.)