

Curso: “Estimaciones de conectividad hídrica en escenario de cambio global”

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Duración: 40 hs

Temario:

1. Introduction to river connectivity indices, general structure of the riverconn package and an application example (1h). This is the same presentation I gave in Budapest: it is a general overview of the concepts behind river connectivity indices and shows an example of application for community ecology.
2. Tools for processing riverscape spatial data in R (1-2 h). This practical focuses on the tools we use to process spatial data in R, mostly the ‘sf’, the ‘terra’ packages, and their integration with the tidyverse to build user-friendly data processing pipelines.
3. Data for riverscape analyses (1-2 h). This practical describes how to preprocess/clean spatial data to generate riverconn-friendly network objects.
4. River connectivity indices with riverconn (1 h). This practical describes how to calculate river connectivity indices and perform barriers prioritization with riverconn.
5. Use of riverconn data for community ecology (1-2 h). This practical describes how to use riverconn indices in community ecology (ordination and distance-based methods)

Bibliografia

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- Recinos Brizuela, S.S., Funk, A., Tiwari, S., Baldan, D. & Hein, T. (2024) Multilayer networks in landscape ecology: a case study to assess changes in aquatic habitat connectivity for flying and non-flying benthic macroinvertebrates in a Danube floodplain. *Landscape Ecology*, **39**, 186.
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