

Metadata for the dataset “Incorporating biotic interactions and dispersal processes in freshwater species distribution models: a review”

This dataset contains the 141 studies included in the analysis for the article with the same name.

Author.Full.Names= Contains the names of the authors of the study as provided by the Web of Science

Article.Title = Contains the title of the study as provided by the Web of Science

Keywords.Plus= Keywords of the study as provided by the Web of Science

Publication.Year= Year of publication of the study as provided by the Web of Science

DOI= DOI

DOI.Link= Link of the DOI

Ecotype1= Ecosystem focus of the study number 1. Levels =River, Wetland, Lake

Ecotype2= Ecosystem focus of the study number 2. Levels =River, Wetland, Lake

Bio\_int= Whether the modelling approach explicitly considered biotic interactions

Dispersal= Whether the modelling approach explicitly considered dispersal

Study\_area\_km2= Spatial extent of the study area in km<sup>2</sup>

Longitude= Longitude of the centroid location of the study area in decimal degrees

Latitude= Latitude of the centroid location of the study area in decimal degrees

Number\_species= Number of species considered in the study

Organismgroup1= Organism group considered in the study #1

Organismgroup2= Organism group considered in the study #2

Organismgroup3= Organism group considered in the study #3

Start\_time= Earliest occurrence record collection year in the study

End\_time= Latest occurrence record collection year in the study

Bio\_data\_type= Type of biological data used in the study. Levels= Occurrence, Cooccurrence, Abundance

Climatic\_var= Whether climatic variables were used as independent variables

Landuse\_var= Whether landuse variables were used as independent variables

Topographic\_var= Whether topographic variables were used as independent variables

Biological\_var= Whether biological variables were used as independent variables

Connectivity\_var= Whether connectivity variables were used as independent variables

Hydro\_var= Whether hydrological variables were used as independent variables

Waterchem\_var= Whether water chemistry variables were used as independent variables

Other\_var= Whether other variables were used as independent variables

Complexity= Class of the model used to describe species distributions (See Table 1 main text)

Mechanism= Mechanisms incorporated in the model beyond abiotic variables