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| Files | | Description |
| Master\_Thesis.Rproj | | R Project file |
| Hydrodynamic\_Model\_Results.qmd | | Quarto-file reading and processing hydrodynamic model results into raster files |
| Habitat\_Model\_VZH.qmd | | Quarto-file carrying out the habitat model according to Schmidlin et al. (2023) |
| Clean\_Data.qmd | | Quarto-file carrying out |
| BRT\_Model.qmd | |  |
| Index\_Calculation.qmd | |  |
| plot\_visualisation.qmd | | Quarto-file visualising plot results for this project work |
| .gitignore | | Gitignore file in which all folders are named which are to be ignored to upload on github |
| Folders 🡪 *Hidden in github* | | **Description** |
| Abiotic\_MI\_Sampling | |  |
| In Abiotic\_MI\_Sampling | GPS\_Points |  |
| Data\_Complete | |  |
| HSC\_MI | | Folder containing all hydrodynamic model results (2dm-file) from BASEMENT simulations for several discharges (h5-files) |
| results\_univariate | |  |
| raster\_files | | Folder containing all output raster from Hydrodynamic\_Model\_Results.qmd |
| Folder: Pre\_Processing | | **Description** |
| basement\_simulations.qmd | | Quarto-file simulating all discharge scenarios of eight river sections using a self-written function from “mth\_functions.R” |
| reconstruct\_discharges.qmd | | Quarto-file reconstructing hydraulic conditions on the days of macroinvertebrate sampling |
| Folder: abiotic\_mi\_sampling | | Contains all .csv and .txt files used in the Quartos “index\_calculation.qmd” and “prepro\_data.qmd” and result .csv files from the Quartos “index\_calculation.qmd”, “prepro\_data.qmd” and “reconstruct\_discharges.qmd” |
| Folder: hdm\_models | | Contains all hydrodynamic model files of eight river sections used and resulting from the Quarto “basement\_simulations.qmd” and used in “hydrodynamic\_model\_results.qmd” |
| Folder: raster\_files | |  |
| Folder: rasters\_stacked | |  |