

Processing coastal flooding layers and visualizing via mapping

We will build on what we have learnt over the past few assignments by analyzing coastal flooding risk in the Netherlands.

The Mason honor code applies.

The aim is to complete Exercise 1.2 in notebook 10.01.

Compile the code in the usual single loop approach you have been taught and then:

- Process the national outline shapefile.
- Process the sub-national regional layers (e.g., GID 1).
- Clip and export a .tif flooding layer for the Netherlands.
- Create a map using the results, to illustrate the areas vulnerable to coastal flooding.

Your aim is to have a single loop which can later be scaled to lots of other countries.

50 points are available for providing the correct code, with the remaining points available for submitting the correct map. To provide the code, copy screenshots of your notebook into your submission document, so the answers can be reviewed on blackboard (just make sure the code/text is large enough).

Due 11am on Monday 10th April 2023.