

My work @QuantLandscapeEcology

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My field of research is somewhere between...



... Eco(toxico-)logy, Statistics, Data analyses and Programming

My philosophy: reproducible and open

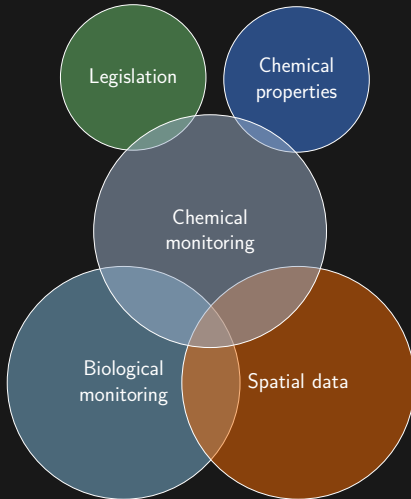
reproducible: always!

open: as much as I am allowed

Tools I am using and developing:



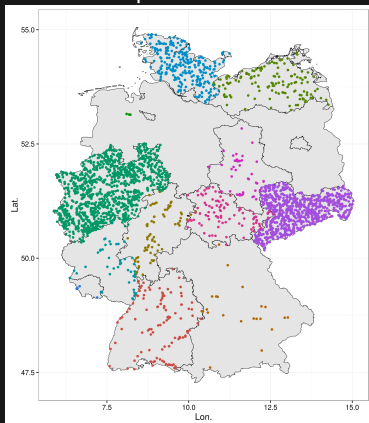
I - Compilation of chemical monitoring data



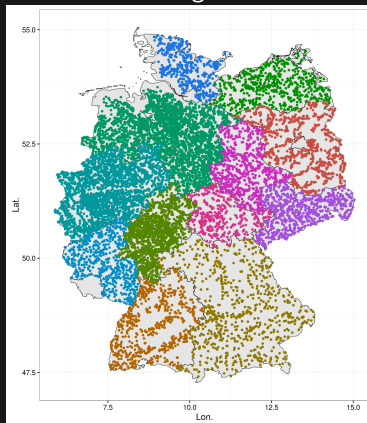
I - Data overview

| type | start* | end | no. sites | no. samples | no. variables |
|------------|------------|------------|-----------|-------------|---------------|
| pesticides | 2005-01-02 | 2015-03-25 | 3112 | 46295 | 491 |
| biological | 2005-01-11 | 2013-11-29 | 14211 | 27392 | 2824 |

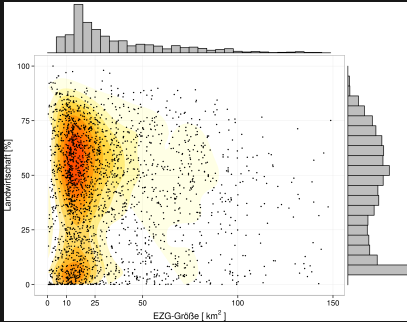
pesticides



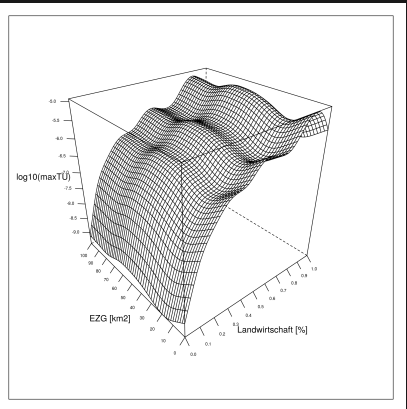
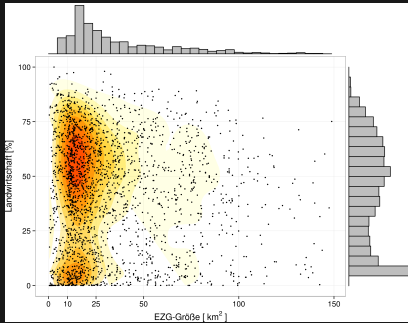
biological



I - What do we know about small water bodies?



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Other questions / analyses are in the pipeline...

II - Develop tools to handle such data

Mainly R-packages:

`taxize`: Cleaning and handling **taxonomic** data.

`webchem`: Search **chemical** information.

`other`: `vegan`-package, resolving ambiguous taxa, ...



III - Other stuff I am working on

Field study: Organization, communication, field work, ...

Statistics:

- ▶ Methods to analyse mesocosm data
- ▶ Methods to model non-linear non-normal censored data
- ▶ Help out my nice colleagues

Freelance:

- ▶ in my (rare) free time...
- ▶ R Courses
- ▶ Data sourcing, cleaning & analysis

Data in Eco(toxico)logy

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<http://edild.github.io/>



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https://github.com/edild/talk_work



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