

My work @QuantLandscapeEcology

Eduard Szöcs

Institute for Environmental Sciences, University of Koblenz-Landau

Landau, 01.03.2016

My field of research is somewhere between...



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

My philosophy: reproducible and open

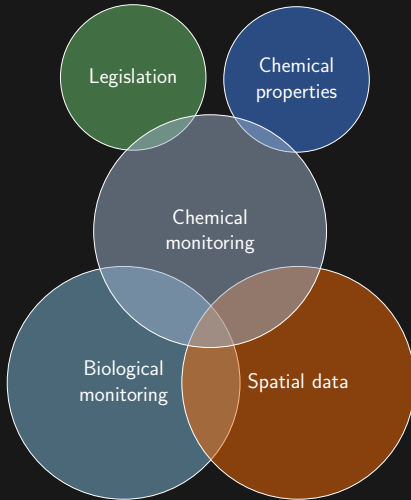
reproducible: always!

open: as much as I am allowed

Tools I am using and developing:



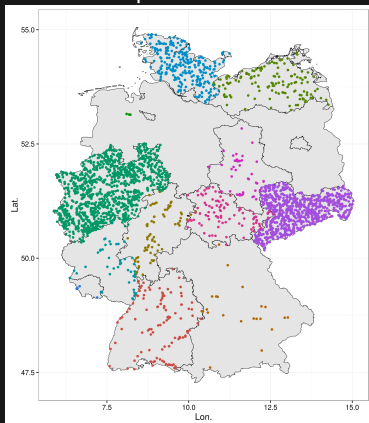
I - Compilation of chemical monitoring data



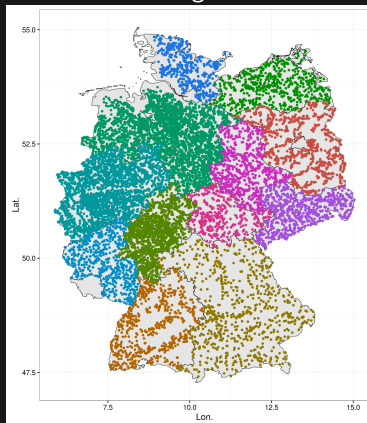
I - Data overview

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

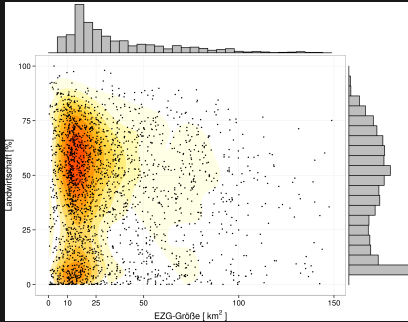
pesticides



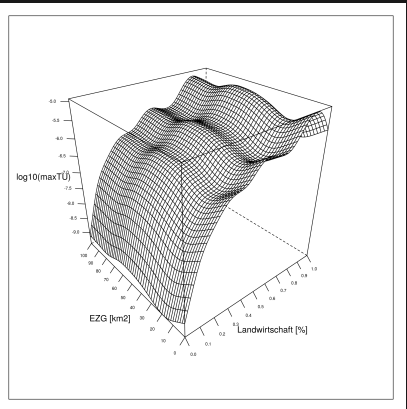
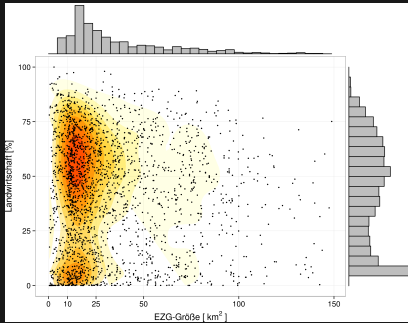
biological



I - What do we know about small water bodies?



I - What do we know about small water bodies?



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

Eduard Szöcs

Institute for Environmental Sciences, University of Koblenz-Landau



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



@EduardSzoecs



https://github.com/edild/talk_work



szoecs@uni-landau.de

