Communities of molluscs, vascular plants and bryophytes on spring fens of West Carpathian





Source of data

Data provided by Michal Horsák (Masaryk University, Brno, Czech Republic), a part of the data was published (Horsák & Hájek 2003).

Description of the dataset

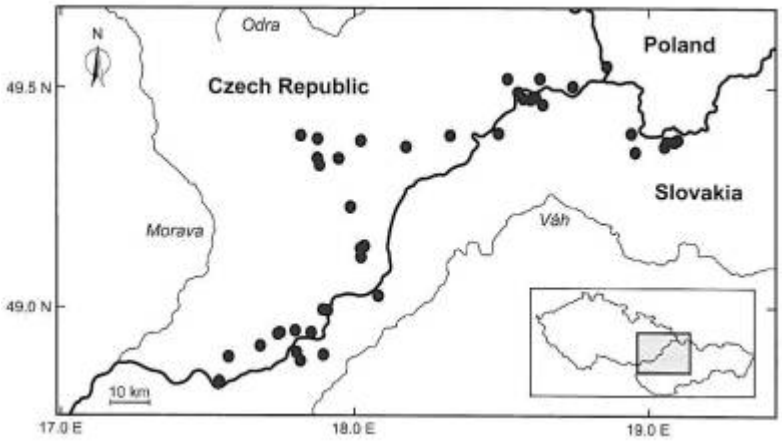
The dataset includes information about species composition of molluscs, vascular plants and bryophytes sampled on 43 localities of spring fens in western Carpathians. At each locality, one plot of 16 m^2 was delineated and sampled for the presence of vascular plants and bryophytes (cover of each species was estimated using nine-degree Braun-Blanquet scale). Within each plot was also collected 12 litres of soil, plant litter and aboveground vegetation, and all molluscs occuring there were determined and their individuals counted. Dataset contains also a set of 14 chemical variables measured in the spring fen water.



Locality

All localities are located at the borderland between the Czech Republic and Slovakia, on the margin of the

Western Carpathians (see the map below, or the link to Google Maps here).



Environmental variables

In August 2000, water samples from central part of each locality were collected, and a set of the following chemical compounds was measured (see Horsák & Hájek (2003) for details):

Name of variable	Description
Ca	calcium
Mg	magnesium
Fe	iron
K	potassium
Na	sodium
Si	silicon
SO4	sulphates
PO4	phosphate
N-NO3	nitrate
N-NH3	amonium
Cl	chloride
pH	water pH
conduct	conductivity
redox	redox potential

Data for download

- molluscs-vasc-bryo.xls - Excel file with all matrices
- molluscs-fens.txt
- vascular-fens.txt
- bryo-fens.txt
- env-fens.txt

Script for direct import of data to R

```
# Import molluscs, vegetation and environmental variables:
moll <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/molluscs-fens.
```

```
txt', row.names = 1)
vasc <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/vascular-fens.
txt', row.names = 1)
env <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/env-fens.txt',
row.names = 1)

# The dataset also contains the bryophytes in each plot (import only if you need
them):
bryo <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/bryo-fens.txt'
, row.names = 1)
```

References

Horsák M. & Hájek M. (2003): Composition and species richness of mollusc communities in relation to vegetation and water chemistry in the Western Carpathian spring fens: the poor-rich gradient. *J. Moll. Stud.* 69: 349-357 pdf

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