Vegetation of acidophilous grasslands in Třebíč region

Source of data

Zelený & Li (2008), Zelený (unpubl.)

Description of dataset

Vegetation samples of acidophilous grasslands (16-25m^2) recorded in 2004-2007.



Photo of patch with acidophilous grassland (Valdíkov, Třebíč district, Czech Republic). Photo credit: D. Zelený.

Locality

North of Třebíč city, Czech Republic. Grasslands typically occur on convex topography with shallow soils, and form “islands” (habitat patches) of acidophilous vegetation in otherwise intensively manages agricultural landscape.

The file with coordinates, which can be opened in Google Earth: grasslands.kml [1)]

Environmental variables

Name of variable	Description
plot	Plot number (used to store the plot in Czech National Phytosociological Database)
area	Area of the plot [m^2]
altitude	Altitude [m a.s.l.]
aspect	Aspect [°]
slope	Slope [°]
heatload	Heat load calculated from slope and aspect following the equation 3 in Keon & McCune 2002 (calculated by heatload function)
coverE2	Cover of shrub layer [%]
coverE1	Cover of herb layer [%]
cover_moss	Cover of moss layer [%]
cover_lich	Cover of lichen layer [%]
cover_bare	Cover of bare soil [%]
pH.H	soil pH, measured in water solution
soildepth	Soil depth, measured by iron rod [cm]
soildepth_sd	Variability of soil depth (calculated from five measurement by iron rod in one plot) [cm]
classification	Classification of plots into vegetation associations. FVd - *Festuco-Veronicetum dillenii*, JmFo - *Jasiono montanae-Festucetum ovinae*, PhFr - *Potentillo heptaphyllae-Festucetum rupicolae*, PpSp - *Polytricho piliferi-Scleranthetum perennis*, and VvAp - *Viscario vulgaris-Avenuletum pratensis*; unclass - not classified.
latitude	Latitude [°]
longitude	Longitude [°]
lat-sjtsk	Latitude [m] (S-JTSK) - transformed from Latitude using dokrovi.exe software
long-sjtsk	Longitude [m] (S-JTSK) - transformed from Latitude using dokrovi.exe software

Data for download

File name	File type	Description
grasslands-spe-env.xls	Excel file	Contains species × sample matrix, environmental variables, explanation of species abbreviations and metadata
grasslands-spe.txt	tab-delimited txt format	Sample × species matrix (48 samples in rows, 171 species in columns)
grasslands-env.txt	tab-delimited txt format	Environmental variable matrix (samples in rows, variables in columns)

Script for direct import of data to R

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

References

- Zelený D. & Li Ch.-F. (2008): Vegetace suchých acidofilních trávníků v oblasti třebíčského žulosyenitového plutonu [Dry acidophilous grassland vegetation in the area of Třebíč's granosyenite

pluton] - *Acta Rerum Naturalium*, 5: 177-194 pdf

[1)]

you need Google Earth installed on your computer to open this file

From:
https://anadat-r.davidzeleny.net/ - **Analysis of community ecology data in R**

Permanent link:
https://anadat-r.davidzeleny.net/doku.php/en:data:grasslands

Last update: **2020/03/25 21:27**