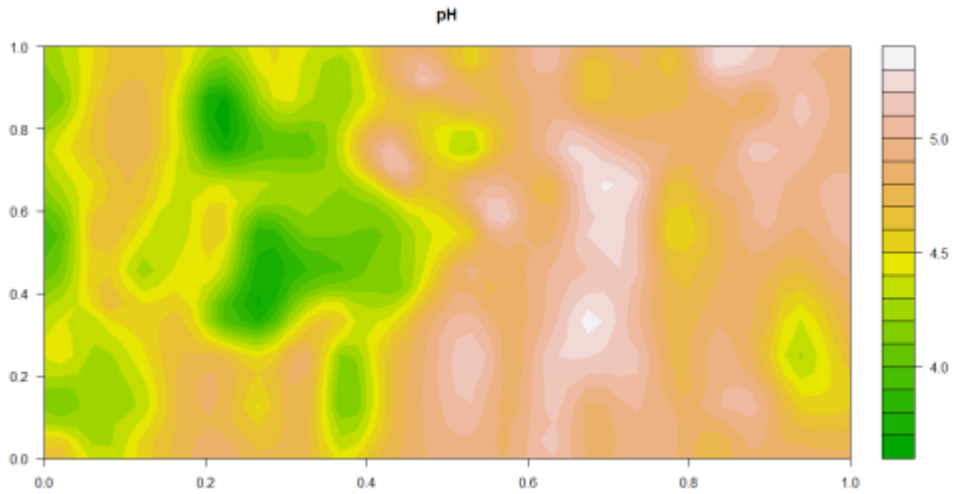
Script used to prepare BCI.soil data from the accessible Excel dataset

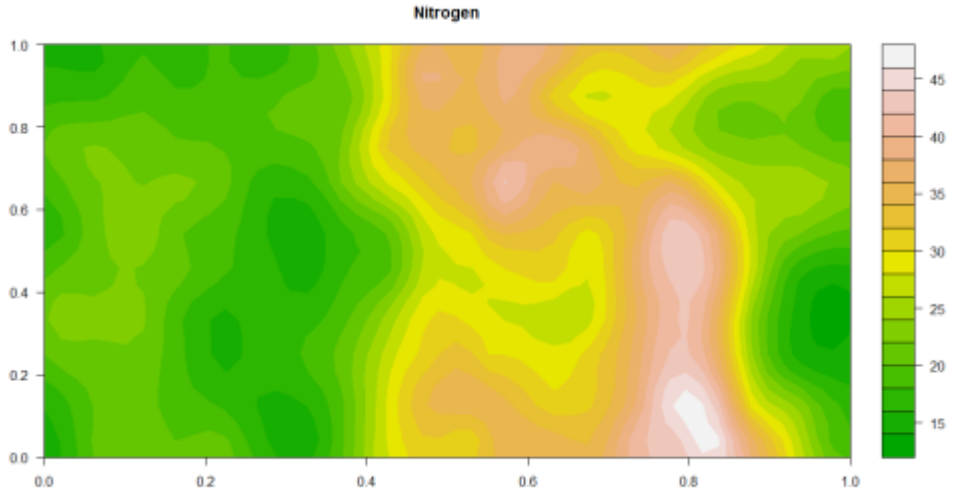
The original Excel file was downloaded here and the second worksheet (*means (20 X 20 m)*) was saved as bci-soil-20x20.txt file and uploaded to this website. Further, the file was resampled into 1ha plots (i.e. values within 25 20×20 m plots have been averaged):

```
soil20x20 <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/bci-soil-20x20
.txt')
BCI.soil <- NULL
for (x in seq (10, 990, by = 100))
    for (y in seq (10, 490, by = 100))
        BCI.soil <- rbind (BCI.soil, colMeans (soil20x20[soil20x20$x >= x &
soil20x20$x < (x+100) & soil20x20$y >= y & soil20x20$y < (y+100),]))
BCI.soil <- as.data.frame (BCI.soil)
write.table (BCI.soil, file = 'BCI.soil.txt', sep = '\t')
```

Script used to create soil maps

```
soil20x20 <- read.delim
('https://raw.githubusercontent.com/zdealveindy/anadat-r/master/data/bci-soil-20x20
.txt')
filled.contour (matrix (soil20x20$pH, ncol = 25, byrow = T), color.palette =
terrain.colors, main = 'pH')
filled.contour (matrix (soil20x20$N, ncol = 25, byrow = T), color.palette =
terrain.colors, main = 'Nitrogen')
```





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

Permanent link:
https://anadat-r.davidzeleny.net/doku.php/en:data:bci:script-soil

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