

BIOL 410 Tutorial 10

Community composition

BCI Vegetation data

Barro Colorado Island

Forest data from central Panama

All trees with a DBH > 10cm recorded

Large data set

- 225 species

- 50+ plots

Using a subset

- 24 plots

- Only include 20 species

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Questions

Calculate

1.

Questions

Questions

Calculate

8. Beta diversity (/)

What does this value indicate about the diversity between these sites?

9. K dissimilarity index between site 11 and 12

Hints

`rowSums(data)` : calculates the sum across rows

`colSums(data)` : calculates the sum down columns

`log(x)` : equivalent to $\ln(x)$

`plot(x,y)` : plots x vs. y

`is.na(x)` : returns whether or not a value in a vector, matrix etc. is NaN