Package: vegetools (via r-universe)

August 17, 2024

Title Tools for vegetation analysis

Version 0.1.2

Description By now, just tools to calculate vegetation cover from field transects data.

Depends R (>= 3.3.0)

License GPL-3

Encoding UTF-8

LazyData true

Imports dplyr, gtools, plyr, tidyr

Suggests testthat

URL https://github.com/Pakillo/vegetools

BugReports https://github.com/Pakillo/vegetools/issues

RoxygenNote 5.0.1
Repository https://pakillo.r-universe.dev
RemoteUrl https://github.com/Pakillo/vegetools
RemoteRef HEAD
RemoteSha 9c3a7aea5c5692bfee13e1e10f66123a7824336f

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calculate_cover

Description

Calculate total cover per species in each transect, layer within transect, etc. Optionally, the function can also calculate length of bare ground (as ground not covered by any plant species).

Usage

```
calculate_cover(df, split.cols, first.spcol, last.spcol = ncol(df), tr.length,
bare = FALSE, precision, check.incremental = TRUE, sort.cols = TRUE,
prop = FALSE, long.format = FALSE, show.progress = TRUE)
```

Arguments

| df | A dataframe with one column per recorded species, plus additional columns to identify transects (and possibly sections within transects, shrub or tree layers, etc). For each species, introduce initial and ending distances every time the species appears along the transect (see example). |
|-------------------|--|
| split.cols | A character vector with the names of the variables in df that identify transects or any other structure of the data (e.g. sections within transects, shrub or tree layers, etc.) |
| first.spcol | Integer. Number of the first column containing species cover data. |
| last.spcol | Integer. Number of the last column containing species cover data (last column in df by default). |
| tr.length | Numeric. Total transect length (e.g. in meters). |
| bare | Logical. Calculate bare cover? Default is TRUE. |
| precision | Numeric. Precision of species cover measurements. Only used to calculate bare cover by exclusion. |
| check.incremental | |
| | Logical (default is TRUE). Check that cover data are sorted incrementally? Must be TRUE if calculating bare cover with this function. |
| sort.cols | Logical. If TRUE (default), sort species columns alphabetically (including bare as a species). |
| prop | Logical. If TRUE, results are expressed as proportion of tr.length covered by each species. If FALSE (the default), results represent linear absolute length covered by each species. |
| long.format | Logical. Produce the output dataframe in long format? Default is wide format. See gather. |
| show.progress | Logical. Show progress bar? |
| | |

Value

A dataframe with total cover values per species and transect (plus optionally bare ground).

vegetools

Author(s)

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Examples

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