spacum package:armfot R Documentation

Function to draw curves of accumulated species

in order to access the length of the sampling

interval necessary to achieve a stable collector's

curve in camera trap monitoring programs.

Description:

spacum draws a collector's curve for camera trap data.

Usage:

 spacum (x)

Arguments:

dados Data frame consisting of two columns, "date" (containing the

 dates of the capture photographic captures) and "especie"

 (containing the names of the species captured in each date).

Details:

 The input of "especie" can be in the form of species names or

 in the form of numbers assigned to species names.

Value:

 spacum returns a plot of accumulated species as a function of

 sampling dates. It also writes a table (.csv format) with the

 number of accumulated species as a function of camera

 trap/days.

Warning:

 Dates must be in the format "yyyy-mm-dd".

Note:

 This is version 1.0 of a much more complex function, which I

 planned to this final exercise and did not function as I

 intended, but which I will be able to rewrite soon.

Author(s):

 Beatriz de Mello Beisiegel - CENAP/ICMBio

References:

SILVEIRA, L.F., BEISIEGEL, B.M., CURCIO, F.F., VALDUJO, P.H., DIXO, M., VERDADE, V.K., MATTOX, G.M.T. & CUNNINGHAM, P.T.M. 2010. Para que servem os inventários de fauna? Estudos Avançados 24:173-207.

SRBEK-ARAUJO, A.C. & CHIARELLO, A.G. 2007. Armadilhas fotográficas na amostragem de mamíferos: considerações metodológicas e comparação de equipamentos. Rev. Bras. Zool. 24(3):647-656.

Examples:

#Amostragem curta

especie<- rpois (30, 3)

data = as.Date ("2012-03-01")

data= seq(from=data, length.out=30, by=1)

dados = data.frame (data, especie)

spacum (dados)

#Amostragem longa

especie<- rpois (240, 8)

data = as.Date ("2012-03-01")

data= seq(from=data, length.out=240, by=1)

dados=data.frame (data, especie)

spacum (dados)