

MIERCOLES: ejercicios 6

Exercise 1. Use of the plot function using terrestrial ecology data.

In Chapter 16 of Zuur et al. (2009), a study is presented analysing numbers of amphibians killed along a road in Portugal using generalised additive mixed modelling techniques. In this exercise, we use the plot command to visualise a segment of the data. Open the file `Amphibian_road_Kills.xls`, prepare a spreadsheet, and import the data into R. The variable, `TOT_N`, is the number of dead animals at a sampling site, `OLIVE` is the number of olive groves at a sampling site, and `D_Park` is the distance from each sampling point to the nearby natural park. Create a plot of `TOT_N` versus `D_park`. Use appropriate labels. Add a smoothing curve. Make the same plot again, but use points that are proportional to the value of `OLIVE` (this may show whether there is an `OLIVE` effect).