

Description of data on rat sightings in Madrid

Background

The dataset deals with rat sightings in Madrid during the period 1 Jan 2010 to 31 Dec 2013, together with possible explanatory variables. Dividing the city into 1,907 pixels of 250m x 250m, the variables described below were recorded for each pixel.

Data description

The dataset consists of the following variables. In each case, "number" refers to the total number observed in the pixel over the three year period.

id	ID number of the pixel
total.count	number of rats and cockroaches
rat.count	number of rats
ckr.count	number of cockroaches
xc	x-coordinate (m) of the centroid of the pixel
yc	y-coordinate
market.dist	distance (m) to nearest market
sewer.dist	distance (m) to nearest sewer
catfeeding.dist	distance (m) to nearest cat-feeding station

Reference

Graler, B., Ayyad, C. and Mateu, J. (2017). Prediction of count data based on weakly dependent spatial covariates using a copula approach - application to rat sightings. *Environmental and Ecological Statistics* 24, 443-448