Supplement S1. Comparisons of roadkill samples of bats and non-bat vertebrates across elevational subregions in Taiwan from 2013 to 2018.

Table. Number and proportion of roadkill grid samples and incidence of bats and non-bat vertebrates across the four elevational subregions in Taiwan from 2013 to 2018.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **I (0-100m)** | **II (100-500m)** | **III (500\_1500m)** | **IV(>1500m)** |
| Number of sample grids | 10943 | 8954 | 9404 | 7670 |
| Proportion of total sample grids | 0.30 | 0.24 | 0.25 | 0.21 |
| All vertebrate roadkill incidence | 27889 | 21488 | 9241 | 1226 |
| Bat roadkill incidence | 392 | 190 | 51 | 9 |
| Grid with bat roadkill | 251 | 144 | 39 | 9 |
| Non-bat roadkill incidence | 29568 | 23074 | 9986 | 1438 |
| Proportion of total sample grid (%) | 29.60 | 24.22 | 25.44 | 20.75 |
| Proportion of total roadkill incidence (%) | 46.60 | 35.91 | 15.44 | 3.32 |
| Proportion of total bat roadkill incidence (%) | 61.06 | 29.60 | 7.94 | 0.02 |
| Proportion of non-bat roadkill incidence (%) | 46.45 | 35.98 | 15.52 | 2.06 |

R script

> bat <- c (312, 190, 51, 9)

> chisq.test(bat, p = c(0.3, 0.24, 0.25, 0.21))

Chi-squared test for given probabilities

data: bat

X-squared = 302.21, df = 3, p-value < 2.2e-16

> nBat <- c(29568, 23074, 9986,1438)

> chisq.test(nBat, p = c(0.3, 0.24, 0.25, 0.21))

Chi-squared test for given probabilities

data: nBat

X-squared = 22428, df = 3, p-value < 2.2e-16

> chisq.test(bat, p = c(0.464, 0.36, 0.155, 0.021))

Chi-squared test for given probabilities

data: bat

X-squared = 26.45, df = 3, p-value = 7.678e-06