Annex 1 - Detailed results of statistical analysis

Figure 1. Principal Coordinate Analysis (PCoA) of vertebrate community composition (Jaccard distances) between the four treatments.
*For these analyses, the data were grouped by transects, considering the years as repetitions and, therefore, grouped at the end.
Figure 2. Permutational Multivariate Analysis of Variance (PERMANOVA) performed in R Program with Vegan package.
*For these analyses, the data were grouped by transects, considering the years as repetitions and, therefore, grouped at the end.

```r
> adonis2(tdm~Methodologies, data=tdm.Met, method = "jacc", permutations = 1000) # sequential
Permutation test for adonis under reduced model
Terms added sequentially (first to last)
Permutation: free
Number of permutations: 1000

adonis2(formula = tdm ~ Methodologies, data = tdm.Met, permutations = 1000, method = "jacc")
Df SumOfSqs R2 F Pr(>F)
Methodologies 3 3.9664 0.38179 7.4189 0.000009 ***
Residual 36 6.4226 0.61821
Total 39 10.3891 1.00000
---
Signif. codes: 0 *** 0.001 *** 0.01 ** 0.05 * 0.1 . 1
> pairwise.perm.manova(tdm.D,tdm.Met$Methodologies,nperm=1000, "jaccard")

Pairwise comparisons using permutation MANOVAs on a distance matrix

data: tdm.D by tdm.Met$Methodologies
1000 permutations

Camera trap SG+TS Sightings
SG+TS 0.0015 - -
Sightings 0.0015 0.0015 -
Tracks and signs 0.0048 0.2627 0.0015

P value adjustment method: fdr
```

Figure 3. Multivariate permutation of dispersal analysis (PERMDISP) performed in R Program with Vegan package.
*For these analyses, the data were grouped by transects, considering the years as repetitions and, therefore, grouped at the end.

```r
> permutest(perm, pairwise = TRUE, permutations = 1000) # PERMDISP result
Permutation test for homogeneity of multivariate dispersions
Permutation: free
Number of permutations: 1000

Response: Distances
Df  Sum Sq Mean Sq   F N.Perm Pr(>F)
Groups 3  0.051098 0.0170326 2.548 1000 0.06593 .
Residuals 36 0.240649 0.0066847
---
Signif. codes: 0 *** 0.001 *** 0.01 ** 0.05 * 0.1 . 1

Pairwise comparisons:
(Observe p-value below diagonal, permuted p-value above diagonal)
  CT        SV     SV+TS   TS
CT 0.067932 0.111888 0.0430
SV 0.076072 0.085315 0.7233
SV+TS 0.109585 0.663546 0.4876
TS 0.049878 0.743372 0.435103
```