Appendix S1 for ‘Linked disturbance in the temperate forest: Earthworms, deer, and canopy gaps’

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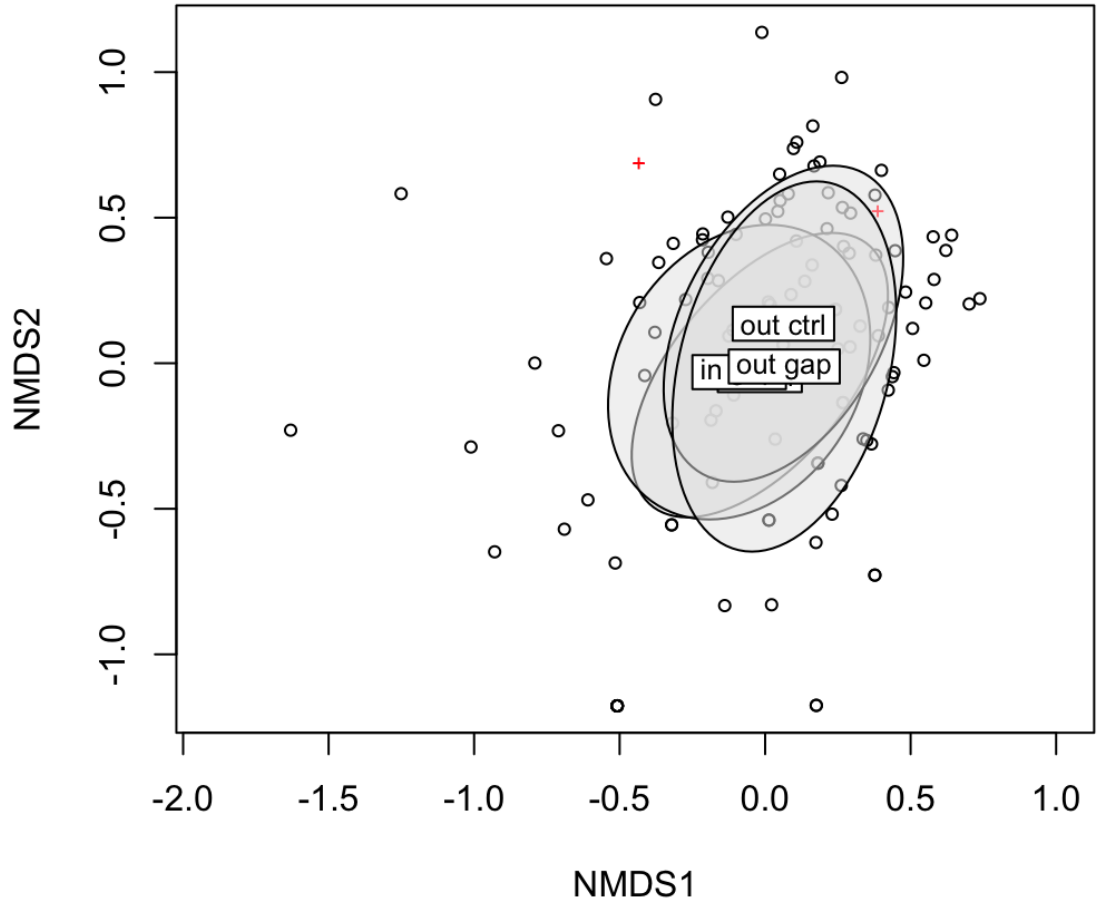
Section S1: MOSS Earthworm Communities Multivariate Stats

```
> anova(betadisper(dis, MOSS_density_nmds_wide_var$gap_fence))
Analysis of Variance Table

Response: Distances
           Df Sum Sq  Mean Sq F value Pr(>F)
Groups      3 0.0596 0.019879  0.5948 0.6198
Residuals 108 3.6097 0.033423
```

```
Permutation test for adonis under reduced model
Terms added sequentially (first to last)
Permutation: free
Number of permutations: 999

adonis2(formula = MOSS_afdb_nmds_wide ~ fence * quad_type, data = MOSS_afdb_nmds_wide_var, permutations = 999)
                Df SumOfSqs      R2      F Pr(>F)
fence            1   0.2018 0.00653 0.7272  0.599
quad_type        1   0.5526 0.01788 1.9909  0.081 .
fence:quad_type  1   0.1797 0.00582 0.6476  0.684
Residual       108  29.9760 0.96978
Total          111  30.9102 1.00000
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```



Section S2: Flambeau Experiment Earthworm Communities Multivariate Stats

```
> anova(betadisper(dis, FE_dens_nmds_wide_var$gap_fence))
Analysis of Variance Table

Response: Distances
          Df  Sum Sq  Mean Sq F value Pr(>F)
Groups     9 0.20604 0.022894    0.95 0.4942
Residuals 40 0.96391 0.024098
```

```
Permutation test for adonis under reduced model
Terms added sequentially (first to last)
Permutation: free
Number of permutations: 999

adonis2(formula = FE_dens_nmds_wide ~ fence * location, data = FE_dens_nmds_wide_var, permutations = 999)
              Df SumOfSqs      R2      F Pr(>F)
fence          1   0.2420 0.04816 2.4615  0.053 .
location       4   0.3586 0.07136 0.9117  0.556
fence:location 4   0.4915 0.09780 1.2496  0.231
Residual      40   3.9332 0.78268
Total         49   5.0253 1.00000
---
Signif. codes:  0 ‘***’ 0.001 ‘**’ 0.01 ‘*’ 0.05 ‘.’ 0.1 ‘ ’ 1
```