

## Supplement C: Examples from the Literature

### Papers demonstrating use of analysis tools

#### *Weighted Averaging (WA)*

There are *many* papers that use WA to calculate scores for species after a free ordination, but I'm still looking for a good one that uses WA to calculate scores for sites as it was originally designed.

#### *Polar Ordination (BC)*

Winter, S. H.S. Fischer and A. Fischer. 2010. Relative quantitative reference approach for naturalness assessments of forests. *Forest Ecology and Management* 259(8):1624-1632.

#### *Canonical Correspondence Analysis (CCA)*

Schowe, K.A. J.S. Harding and P.A. Broady. 2013. Diatom community response to an acid mine drainage gradient. *Hydrobiologia* 705(1):147-158.

#### *Redundancy Analysis (RDA)*

Frameschi, I.F. L.A. Andrade, V. Fransozo, L.C. Fernandes-Góes, M. Furlan and A. Fransozo. 2015. Ecological distribution of the hermit crab *Dardanus insignis* in shallow waters of the tropical-subtropical transition zone on the Brazilian coast. *Marine Biodiversity* 1-9.

#### *Fuzzy Set Ordination (FSO)*

Zaharescu, D.G., C.I. Burghelea, P.S. Hooda, R.N. Lester and A. Palanca-Soler. 2016. Small lakes in big landscape: Multi-scale drivers of littoral ecosystem in alpine lakes. *Science of the Total Environment* 551:496-505.

#### *Principal Components Analysis (PCA)*

Chavarie, L., K. Howland, C. Gallagher and W. Tonn. 2016. Fatty acid signatures and stomach contents of four sympatric Lake Trout: assessment of trophic patterns among morphotypes in Great Bear Lake. *Ecology of Freshwater Fish* 25(1):109-124.

#### *Nonmetric Multidimensional Scaling (NMS)*

Zenner, E.K., S.L. Olszewski, B.J. Palik, D.N. Kastendick, J.E. Peck and C.R. Blinn. 2012. Riparian vegetation response to gradients in residual basal area with harvesting treatment and distance to stream. *Forest Ecology and Management* 283:66-76.

#### *Cluster Analysis*

Rasheed, A.A., A. Perveen, R. Abid and M. Qaiser. 2016. Pollen morphology of the subfamily Arecoideae Griff. (Family-Arecaceae) from Pakistan and Kashmir. *Pakistan Journal of Botany* 48(3):1051-1060.

### *Multiresponse Permutation Procedure (MRPP)*

Nascimbene, J., M. Zottini, D. Ivan, V. Casagrande and L. Marini. 2016. Do vineyards in contrasting landscapes contribute to conserve plant species of dry calcareous grasslands? *Science of the Total Environment* 545:244-249.

### *Distance-based MANOVA (PerMANOVA)*

Ulyshen, M.D., S.V. Diehl and D. Jeremic. 2016. Termites and flooding affect microbial communities in decomposing wood. *International Biodeterioration & Biodegradation* 115:83-89.

### *Aggregate F-Statistics (SumF)*

Helsen, K. M. Hermy and O. Honnay. 2015. Changes in the species and functional trait composition of the seed bank during semi-natural grassland assembly: seed bank disassembly or ecological palimpsest? *Journal of Vegetation Science* 26(1):58-67.

### *Indicator Species Analysis (ISA)*

Antonelli, L., J. Foata, Y. Quilichini and B. Marchand. 2016. Influence of season and site location on European cultured sea bass parasites in Corsican fish farms using indicator species analysis (IndVal). *Parasitology research* 115(2):561-568.

### *Mantel Test*

Davis, R.A., L.E. Valentine, M.D. Craig, B. Wilson, W.J. Bancroft and M. Mallie. 2014. Impact of *Phytophthora*-dieback on birds in *Banksia* woodlands in south west Western Australia. *Biological Conservation* 171:136-144.

### *Fourth Corner Analysis (FCA)*

Frimpong, E.A and P.L. Angermeier. 2010. Traitbased approaches in the analysis of stream fish communities. In *Community ecology of stream fishes: concepts, approaches, and techniques*. American Fisheries Society, Symposium Vol. 73:109-136.