

Ecography

ECOG-03904

Burgess, T., McDougall, K., Scott, P., Hardy, G. and Garnas, J. 2019. Predictors of *Phytophthora* diversity and community composition in natural areas across diverse Australian ecoregions. – Ecography doi: 10.1111/ecog.03904

Supplementary material

Figure A1. Non-metric multidimensional scaling results axes 1 v. 2 (a), 1 v. 3 (b) and 2 v. 3 (c); (d) with an NMDS stressplot (d). Symbols/colours are coded by ecotype (see Fig 1).

Figure A2. Mean site richness in sites where two dominant invaders (*P. multivora* and *P. cinnamomi*) and two dominant native species (*P. versiformis* and *P. boodjera*) are present (blue) v. absent (red). Blue bars include the focal species.

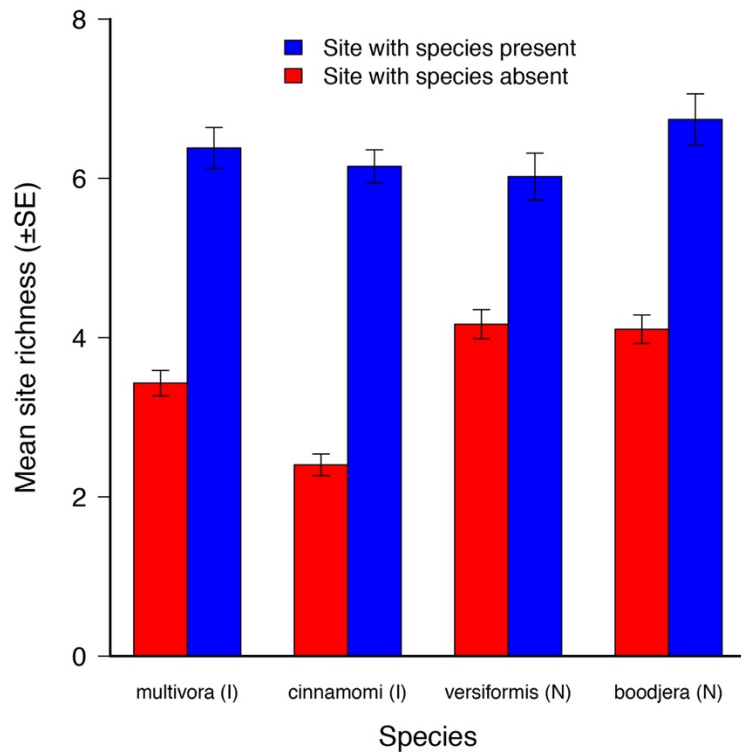


Figure A3. Expected alpha (α) diversity (a and c) and pairwise similarity (b and d) within and among sites (a measure of β diversity) for $q=1$ and $q=2$, by ecoregion. In (a and c), black circles correspond to ecoregions rarefied to 10 sites and crosses to ecoregions extrapolated to 10 sites. In (b and d), triangles show pairwise similarity among sites within an ecoregion while open diamonds depict the mean pairwise similarity between each ecoregion and all others. The parameter q determines the relative sensitivity to species commonness and rarity of with $q=0$ corresponding to equal weighting; as q increases the relatively contribution of rare species is minimized. The parameter q can take any positive number with $q=1$ corresponding to Shannon and $q=2$ to Simpson measures of a diversity and of Horn and Morista-Horn for β diversity. Error bars are 95% confidence intervals. Ecoregion codes (x axis) are given in Fig. 1.

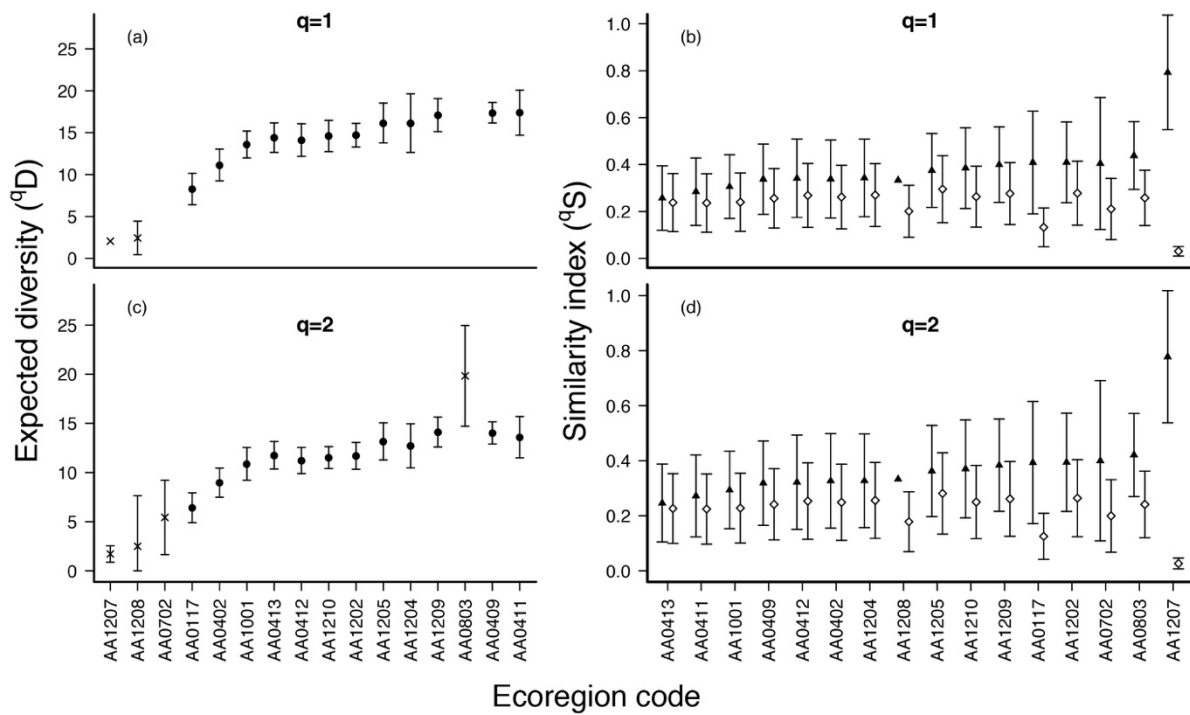


Figure A4. Correlation matrix between continuous variables (see Table 1 for explanation of the axis). Circle size indicates statistical significance with larger circles denoting smaller p-values (stronger statistical support). Red circles correspond to negative correlations and blue to positive. In both cases, colour intensity increases with the strength of the correlation coefficient (Pearson's r). See Table 1 for Worldclim code meanings.

