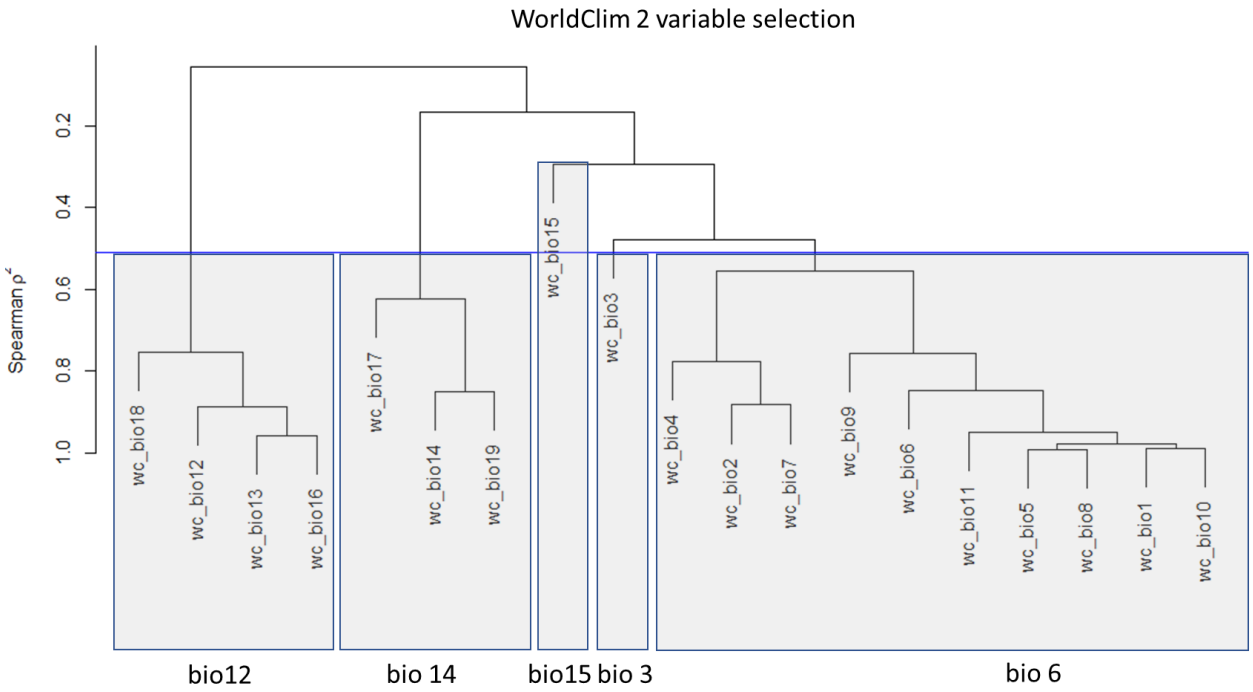
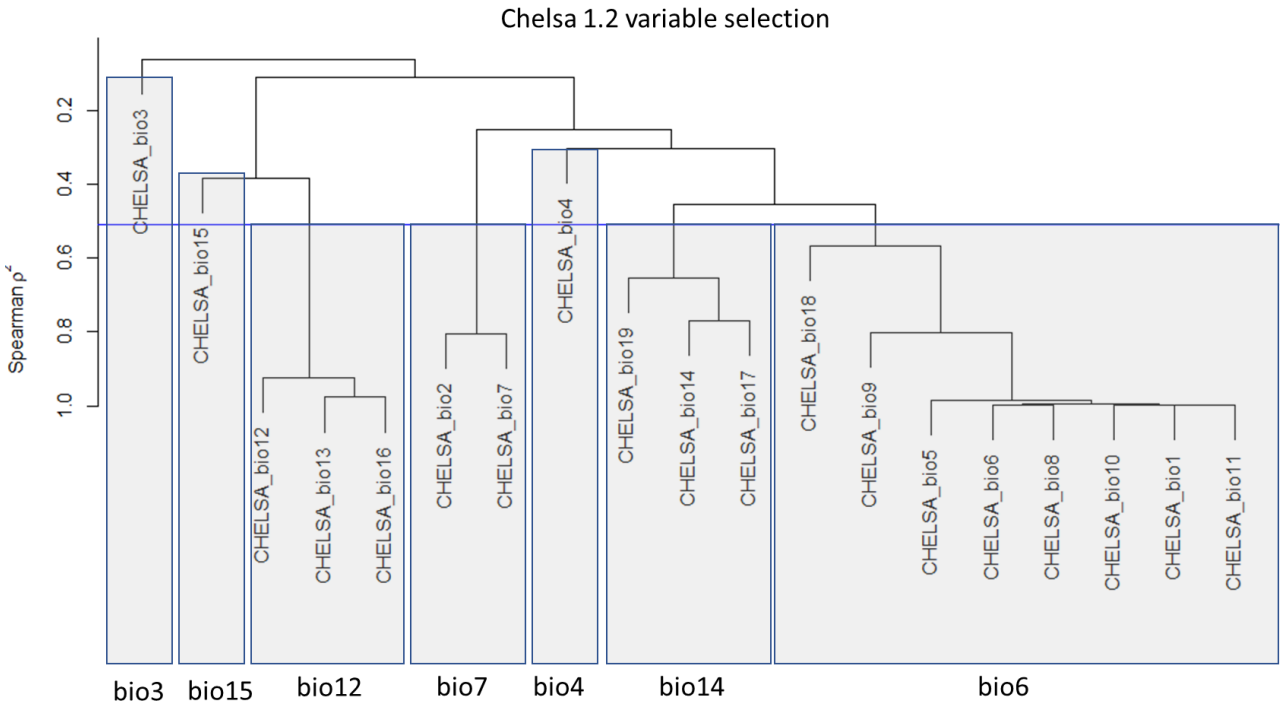
Datta, Schweiger, Kühn 2020: Origin of climatic data can determine the transferability of species distribution models, NeoBiota

Supplementary material S1: Variable selection using cluster analsys based on Spearman's rank corellation and UPGMA method for agglomeration

All 19 bioclimatic variables and their qudratic terms were used in the cluster analysis. A threshold value of ρ=0.7 (or ρ^2=0.49) was used to prune the dendrogram and select relatively less correlated variables for the purpose of modelling. One variable was selected from a cluster. Selection of a variable within the cluster was primarily based on its ecological relevance to the study species.





List of bioclimatic variables:

bio1 = Annual Mean Temperature;
bio2 = Mean Diurnal Range (Mean of monthly (max temp - min temp));
bio3 = Isothermality (BIO2/BIO7) (* 100);
bio4 = Temperature Seasonality (standard deviation *100);
bio5 = Max Temperature of Warmest Month;
bio6 = Min Temperature of Coldest Month
bio7 = Temperature Annual Range (BIO5-BIO6);
bio8 = Mean Temperature of Wettest Quarter
bio9 = Mean Temperature of Driest Quarter;
bio10 = Mean Temperature of Warmest Quarter
bio11 = Mean Temperature of Coldest Quarter;
bio12 = Annual Precipitation
bio13 = Precipitation of Wettest Month;
bio14 = Precipitation of Driest Month
bio15 = Precipitation Seasonality (Coefficient of Variation);
bio16 = Precipitation of Wettest Quarter
bio17 = Precipitation of Driest Quarter;
bio18 = Precipitation of Warmest Quarter;
bio19 = Precipitation of Coldest Quarter