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

Supplementary material S2: Multimodel inference table

Tables depicting all the component models of the best subset (i.e. models that differed by 2 or less in AIC). The bioclimatic variables and their coefficients of each component model used in the multimodel inference approach are reported. It also shows the weighted averages of the coefficients used for prediction from the final averaged model. Δ*AICc* represents the difference in AIC from the best model. The Akaike weight of a model is defined as the relative likelihood of a model divided by the sum of the relative likelihoods across all models. The default full average method is used for averaging. In this method, if a variable is absent from one of the component models (i.e. NA), a parameter estimate of "zero" is substituted in the averaging process (Symonds and Moussalli 2011). This method results in shrinkage of parameter estimates for those variables which are less important (Grueber et al. 2011).

WorldClim data – WorldClim variable selection

Models	***df***	***Intercept***	***bio12***	***bio14***	***bio15***	***bio3***	***bio6***	Δ***AICc***	***weight***
1	5	-0.09	0.71	0.75	1.62	-0.42	NA	0	0.70
2	6	-0.09	0.81	0.71	1.46	-0.45	0.20	1.70	0.30
Average		**-0.09**	**0.74**	**0.74**	**1.57**	**-0.43**	**0.06**		

Chelsa data – Chelsa variable selection

Model	***df***	***Intercept***	***bio12***	***bio14***	***bio15***	***bio4***	***bio7***	***bio3***	***bio6***	Δ***AICc***	***weight***
1	7	-0.08	NA	1.36	2.2	-1.26	-1.515	0.48	0.52	0	0.27
2	8	-0.07	0.54	1.02	1.63	-1.26	-1.382	0.42	0.60	0.41	0.22
3	5	-0.05	NA	1.31	2.02	-1.57	-1.175	NA	NA	1.25	0.15
4	6	-0.08	NA	1.23	2.15	-1.48	-1.286	0.27	NA	1.41	0.13
5	7	-0.03	0.68	0.96	1.33	-1.45	-1.114	NA	0.37	1.66	0.12
6	6	-0.04	0.47	0.97	1.56	-1.56	-1.062	NA	NA	1.73	0.11
Average		**-0.061**	**0.25**	**1.17**	**1.87**	**-1.39**	**-1.31**	**0.26**	**0.31**		

Chelsa data – WorldClim variable selection

Models	*df*	*Intercept*	*bio12*	*bio14*	*bio15*	*bio3*	*bio6*	*ΔAICc*	*weight*
1	3	-0.02	1.52	NA	NA	NA	0.64	0	0.42
2	4	-0.04	1.57	NA	NA	0.14	0.69	1.16	0.23
3	4	-0.02	1.55	-0.12	NA	NA	0.56	1.56	0.19
4	4	-0.03	1.48	NA	0.07	NA	0.60	1.96	0.16
Average		**-0.03**	**1.53**	**-0.023**	**0.01**	**0.03**	**0.63**		

References

Grueber CE, Nakagawa S, Laws RJ, Jamieson IG (2011) Multimodel inference in ecology and evolution: Challenges and solutions. Journal of Evolutionary Biology 24: 699–711. https://doi: 10.1111/j.1420-9101.2010.02210.x

Symonds MRE, Moussalli A (2011) A brief guide to model selection, multimodel inference and model averaging in behavioural ecology using Akaike's information criterion. Behavioral Ecology and Sociobiology 65: 13–21. https://doi: 10.1007/s00265-010-1037-6