Ecography

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Supplementary material

Appendix 1

Table A1: Simpson's Diversity Index (SDI): worked example for diet breadth for the Mandarin duck (*Aix galericulata*).

Food type	Invertebrates	Fish	Seeds	Plants	
Proportion of diet (%)	20	10	40	30	
Proportion of diet / total proportion for food type	20 / 100 = 0.2	10 / 100 = 0.1	40 / 100 = 0.4	30 / 100 = 0.3	
Squared total	$0.2^2 = 0.04$	$0.1^2 = 0.01$	$0.4^2 = 0.16$	$0.3^2 = 0.09$	
SDI (sum of squared totals)	0.04	0.01	0.16	0.09	**SDI = 0.3**

Table A2: Variance Inflation Factors for eight predictor variables (calculated using car package (Fox and Weisberg, 2011)).

	Variance Inflation Factor
Alien range size	1.59
Body mass	1.17
Brain size	1.40
Diet breadth	1.04
Habitat breadth	1.07
Human Development Index (HDI)	1.14
Number of realms occupied	1.43
Residence time	1.47

Table A3: Hierarchical Partitioning for the five predictor variables found to influence the availability of impact data for alien birds in multivariate analyses (calculated using the hier.part package (Walsh and Mac Nally, 2013)).

	I	I(%)	J	Total
Alien range size	14.38	28.81	13.27	27.65
Brain size	11.08	22.20	-5.50	5.58
Habitat breadth	3.87	7.75	4.23	8.10
Number of realms occupied	8.84	17.71	11.60	20.44
Residence time	11.75	23.53	8.64	20.38

I = Independent contribution of each variable; I(%) = Independent contribution of each variable as a percentage of total explained variance; J = Conjoint contribution of each variable; Total = I + J. I and J are average changes in log likelihood (direct and indirect) resulting from the addition of the variable to models not including that variable.