

Supplementary information

Key Determinants of Freshwater Gastropod Diversity and Distribution: The Implications for Conservation and Management

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Table S1. Indicator species selected in four clusters based on the Indval. Only taxa with significant Indval values are shown.

Cluster	Order	Family	Species	Indval	P value
1	Mesogastropoda	Pleuroceridae	<i>Semisulcospira libertine</i>	0.57	0.001
	Mesogastropoda	Pleuroceridae	<i>Semisulcospira forticosta</i>	0.51	0.001
	Mesogastropoda	Pleuroceridae	<i>Semisulcospira tegulata</i>	0.29	0.001
	Mesogastropoda	Pleuroceridae	<i>Semisulcospira coreana</i>	0.24	0.001
	Mesogastropoda	Pleuroceridae	<i>Semisulcospira paucicincta</i>	0.02	0.016
	Mesogastropoda	Pleuroceridae	<i>Koreanomelania nodifila</i>	0.07	0.006
	Mesogastropoda	Pleuroceridae	<i>Koreanomelania paucicincta</i>	0.02	0.019
	Mesogastropoda	Viviparidae	<i>Cipangopaludina japonica</i>	0.02	0.047
2	Basommatophora	Lymnaeidae	<i>Austropeplea ollula</i>	0.06	0.009
3	Mesogastropoda	Pleuroceridae	<i>Semisulcospira gottschei</i>	0.39	0.001
	Mesogastropoda	Pleuroceridae	<i>Koreoleptoxis globus</i>	0.05	0.006
4	Mesogastropoda	Ampullariidae	<i>Pomacea canaliculata</i>	0.23	0.001
	Mesogastropoda	Bithyniidae	<i>Gabbia misella</i>	0.14	0.001
	Mesogastropoda	Bithyniidae	<i>Parafossarulus manchouricus</i>	0.07	0.002
	Basommatophora	Lymnaeidae	<i>Radix auricularia</i>	0.71	0.001
	Basommatophora	Physidae	<i>Physa acuta</i>	0.46	0.001
	Basommatophora	Planorbidae	<i>Gyraulus convexiusculus</i>	0.35	0.001
	Basommatophora	Planorbidae	<i>Hippeutis cantori</i>	0.41	0.001
	Basommatophora	Planorbidae	<i>Polypylis hemisphaerula</i>	0.05	0.002
	Mesogastropoda	Stenothyridae	<i>Stenothyra glabra</i>	0.23	0.001
	Mesogastropoda	Viviparidae	<i>Cipangopaludina chinensis malleata</i>	0.25	0.001

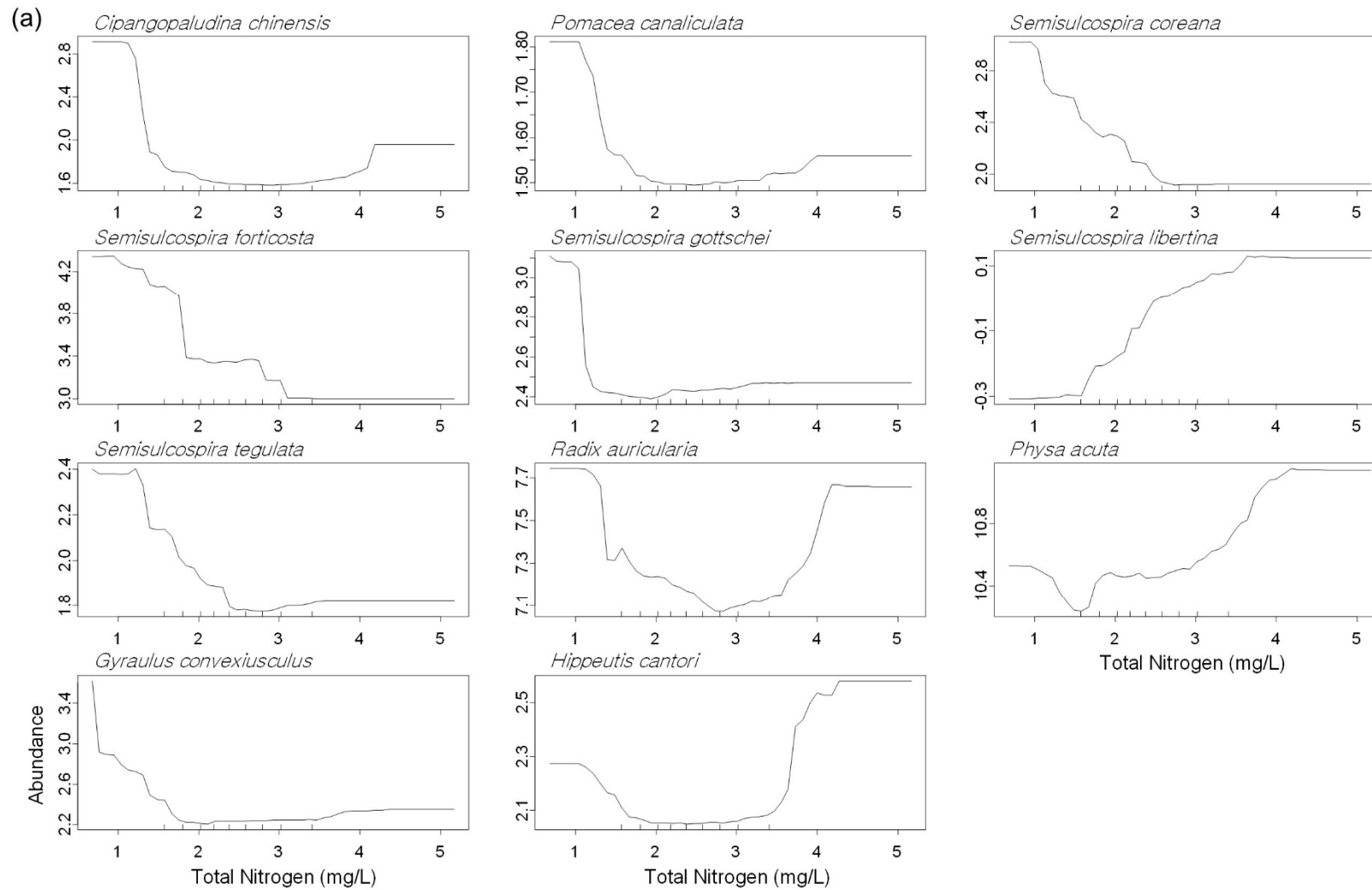


Figure S1. Partial dependence plots of 11 abundant species responding to (a) total nitrogen, (b) agriculture (%) in land cover, (c) water current velocity and (d) cobble (%).

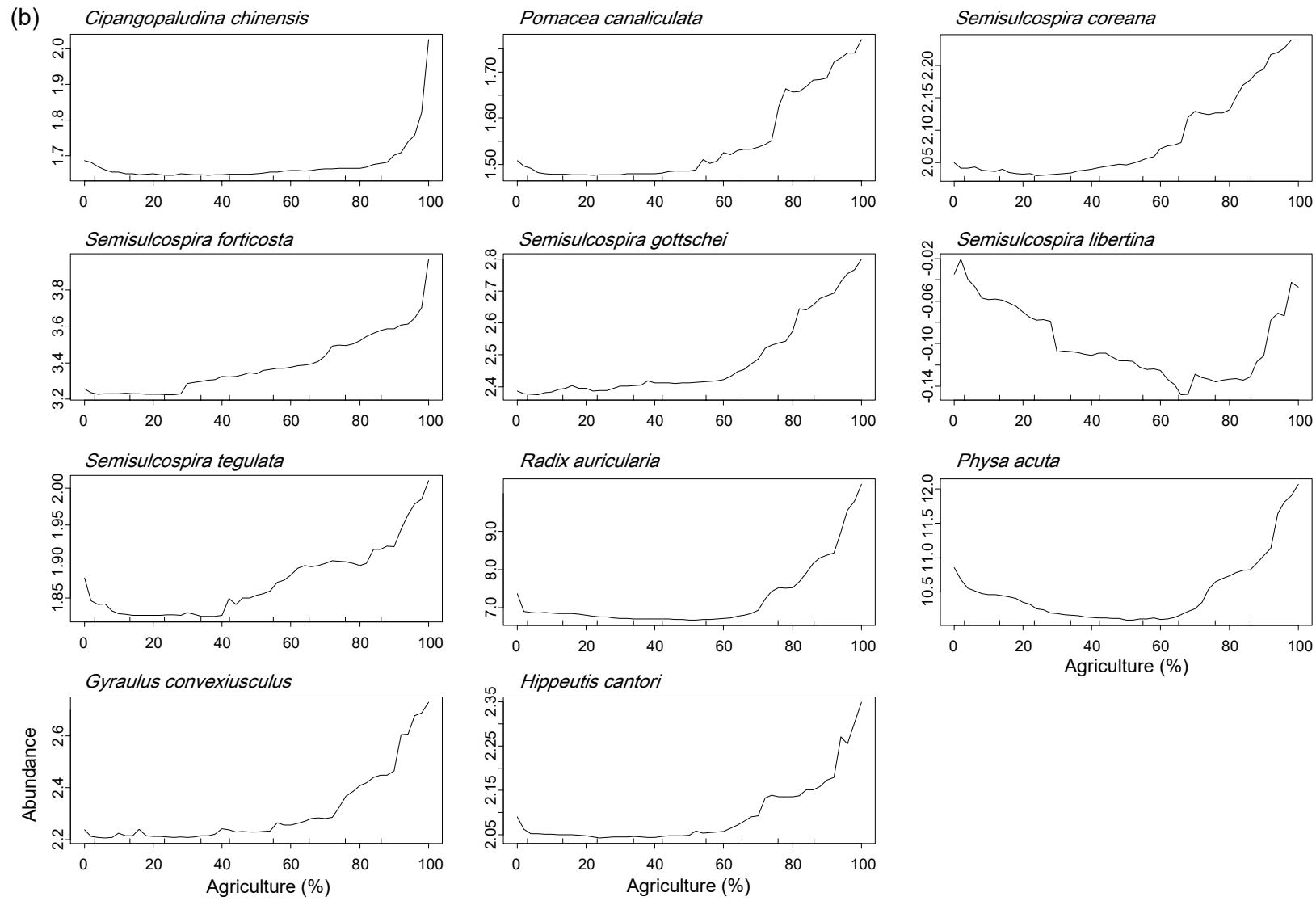


Figure S1. Continued.

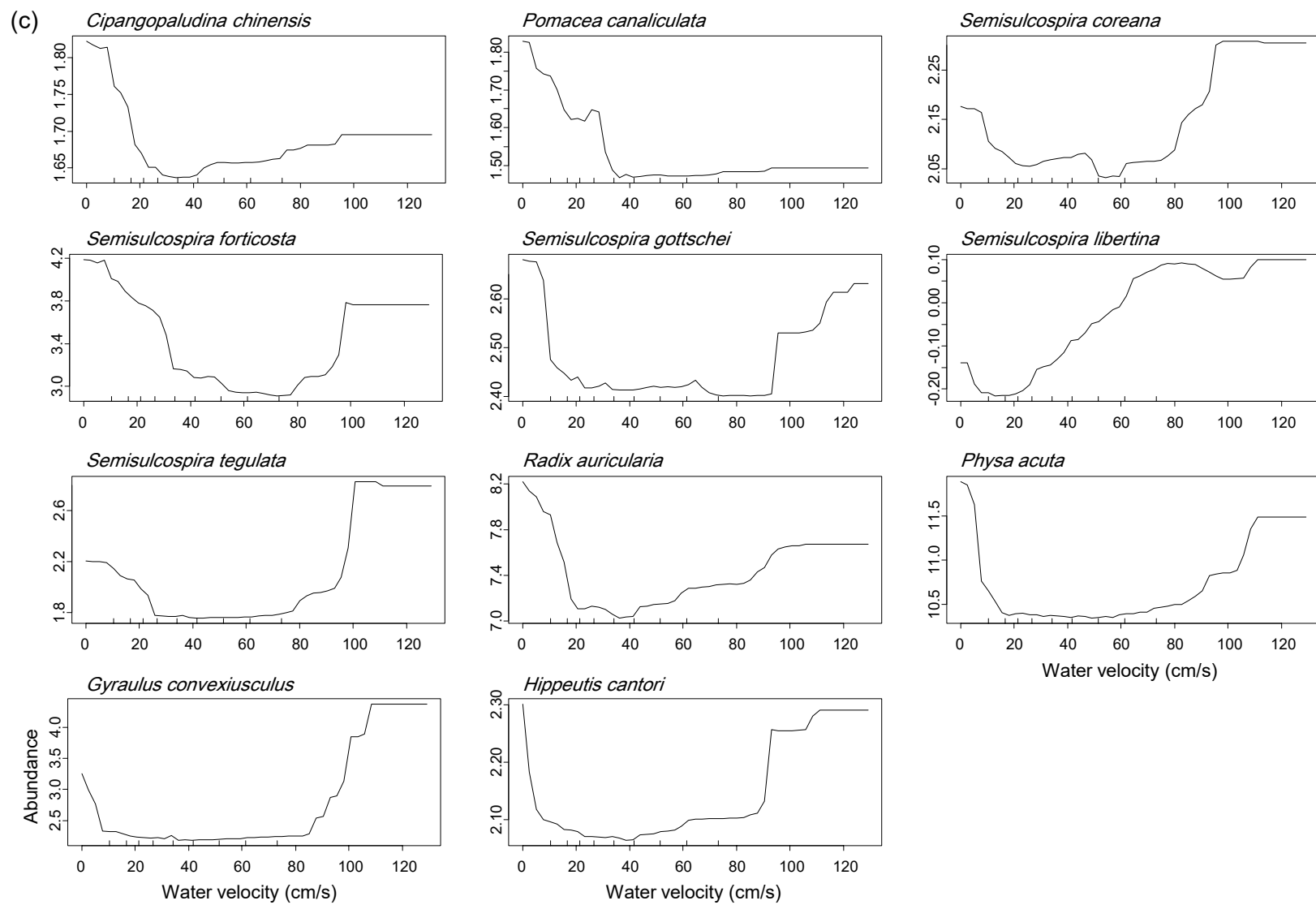


Figure S1. Continued.

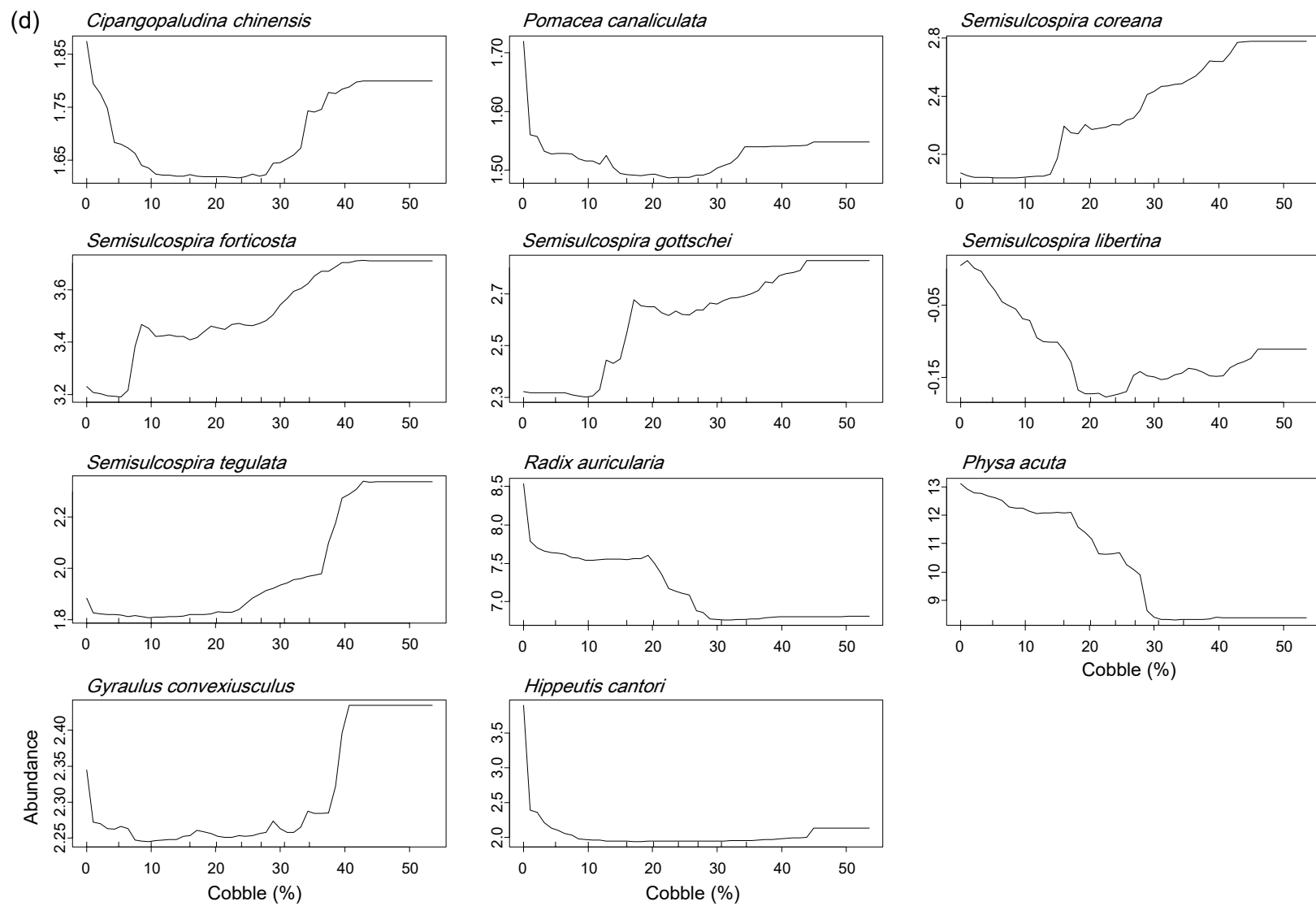


Figure S1. Continued.