

Supplementary Materials:

Table S1: Distribution of limnic gastropods and associated trematodes and their coordinates

Collection point data			Limnic gastropods										Larval trematodes			
			Ampullariidae	Planorbidae							Succineidae	Lymnaeidae				Physidae
Points	Geographic coordinates UTM	Hydrographic units	<i>Pomacea</i> sp.	<i>Biomphalaria</i> sp.	<i>B. glabrata</i>	<i>B. straminea</i>	<i>B. tenagophila</i>	<i>B. cousini</i>	<i>B. kuhniiana</i>	<i>Drepanotrema cinex</i>	<i>Oncomelox</i> sp.	<i>Pseudosuccinea columella</i>	<i>Stemophysa marmorata</i>	Echinostome	Xiphiocercaria	Strigeid oocercaria
1	-18,775347 -43,255115	HU1		X	X				X				X			
2	-18,773126 -43,269246	HU1		X	X				X							
5	-18,77955 -43,285942	HU1	X	X	X	X			X	X			X			
6	-18,792883 -43,289729	HU1		X	X								X			
9	-18,760984 -43,342033	HU3		X	X								X			
10	-18,759874 -43,347945	HU4		X	X							X				
11	-18,734675 -43,361932	HU5		X					X	X			X			X
12	-18,737719 -43,363778	HU5		X									X			
15	-18,730363 -43,365636	HU4		X	X					X			X			
18	-18,763129 -43,413238	HU7									X	X	X			
25	-18,78412 -43,377884	HU7											X			
32	-18,858279 -43,338465	HU9		X						X			X		X	X
33	-18,856991 -43,339102	HU9		X			X						X	X		
37	-18,697598 -43,332415	HU12		X	X											
39	-18,707207 -43,336425	HU12											X			
40	-18,721655 -43,33313	HU11		X				X								
41	-18,72545 -43,32192	HU1	X	X	X				X				X			

Table S2: Jaccard's analysis for hydrographic units

	HU1	HU3	HU4	HU5	HU7	HU9	HU12	HU11
HU1	1							
HU3	0.42	1						
HU4	0.5	0.6	1					
HU5	0.57	0.4	0.5	1				
HU7	0.1	0.2	0.33	0.16	1			
HU9	0.37	0.4	0.5	0.6	0.16	1		
HU12	0.42	1	0.6	0.4	0.2	0.4	1	
HU11	0.12	0.25	0.16	0.2	0	0.2	0.25	1

Table S3: Jaccard's analysis for the limnic gastropods

	<i>Biomphalaria</i> sp.	<i>B. glabrata</i>	<i>B. straminea</i>	<i>B. tenagophila</i>	<i>B. cousini</i>	<i>B. kuhniana</i>	<i>S. marmorata</i>	<i>D. cimex</i>	<i>Omalonyx</i> sp.	<i>P. columella</i>	<i>Pomacea</i> sp.
<i>Biomphalaria</i> sp.	1										
<i>B. glabrata</i>	0.57	1									
<i>B. straminea</i>	0.14	0.25	1								
<i>B. tenagophila</i>	0.14	0	0	1							
<i>B. cousini</i>	0	0	0	0	1						
<i>B. kuhniana</i>	0.28	0.2	0.5	0	0	1					
<i>S. marmorata</i>	0.75	0.57	0.14	0.14	0	0.28	1				
<i>D. cimex</i>	0.57	0.3	0.25	0.25	0	0.5	0.57	1			
<i>Omalonyx</i> sp.	0	0	0	0	0	0	0.14	0	1		
<i>P. columella</i>	0.12	0.2	0	0	0	0	0.28	0.2	0.5	1	
<i>Pomacea</i> sp.	0.14	0.25	1	0	0	0.5	0.14	0.25	0	0	1

Table S4: Logistic regression for *Biomphalaria glabrata*

Variable Independent	P	OR
<i>B. tenagophila</i>	Collinearity	
<i>B. straminea</i>	Collinearity	
<i>Biomphalaria</i>	Collinearity	
<i>B. cousini</i>	Collinearity	
<i>B. kuhniana</i>	Prob > chi2 = 0.0015	28.8
<i>Drepanotrema</i>	Prob > chi2 = 0.1488	
<i>Omalonyx</i>	Collinearity	
<i>Pseudosuccinea</i>	Prob > chi2 = 0.3222	
<i>Stenophysa</i>	Prob > chi2 = 0.0064	8.5
<i>Pomacea</i>	Collinearity	