

APPENDIX 1

Functional traits explain amphibian distribution in the Brazilian Atlantic Forest

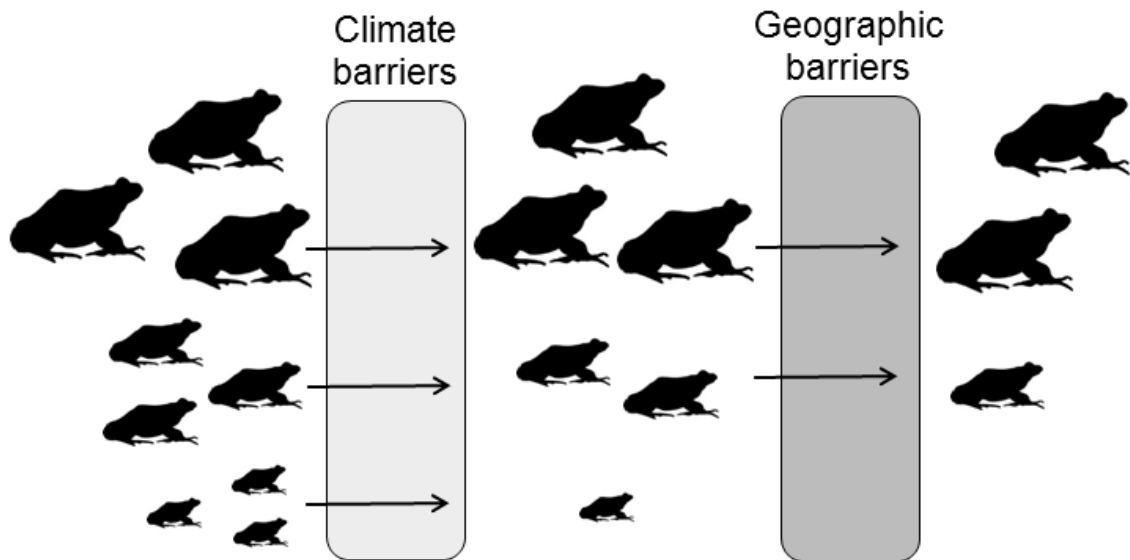


FIGURE 1.1 Hypothetical diagrams showing that amphibians with large to medium body sizes and typical of open areas are better adapted to climate and geographical barriers, suggesting greater dispersal abilities

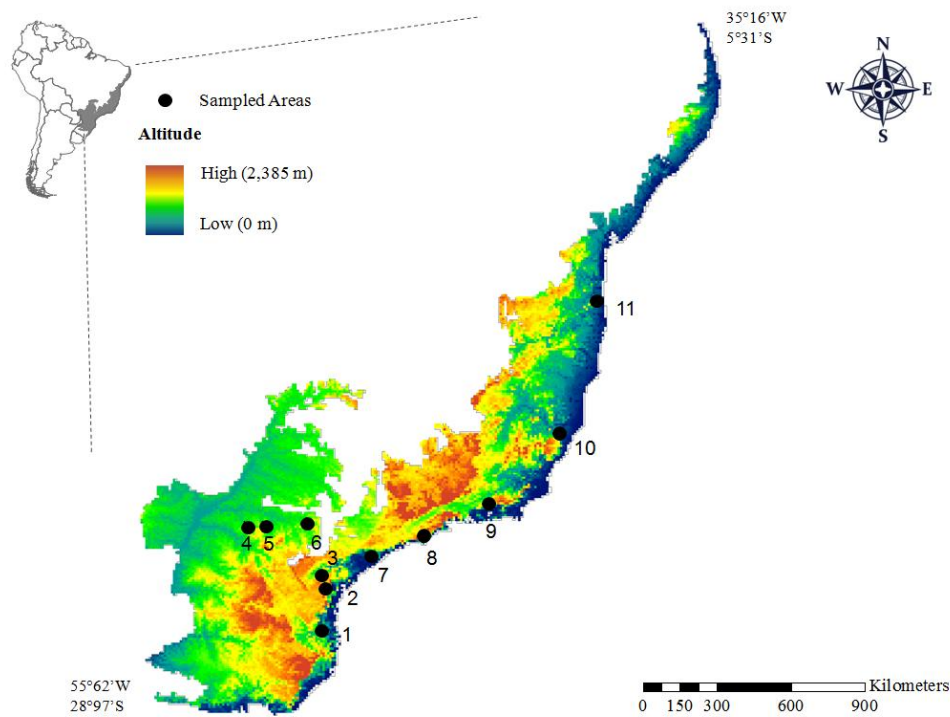


FIGURE 1.2 Location of Brazilian Atlantic Forest hotspot (in gray) in South America.

Black dots indicate sampled areas: 1. Parque Ecológico Spitzkopf, SC; 2. Parque Estadual Pico do Marumbi, PR; 3. Parque estadual de Campinhos, PR; 4. Parque municipal das Perobas, PR; 5. Parque Estadual Mata dos Godoy, PR; 6. Refugio municipal da vida Silvestre, Horto Florestal de Jacarezinho, PR; 7. Estação Ecológica de Juréia-Itatins, SP; 8. Parque Estadual da Serra do Mar Núcleo Caraguatatuba, SP; 9. Parque Nacional da Serra dos Órgãos, RJ; 10. Reserva Biológica Augusto Ruschi, ES; 11. Reserva Biológica de Una, BA.

TABLE 1.1 List of species studied in alphabetical order with their respective distribution area (range = grid of 10 x 10 km) and functional traits.

Species	Range	Activity	Body size (cm)	Toxicity	Habit	Habitat	Reproductive mode	References
<i>Adelophryne glandulata</i>	3	Nocturnal	1,2	Non-toxic	Cryptic	Forested areas	Direct	Lourenço-de-Moraes et al., 2014; present study
<i>Adelophryne meridionalis</i>	2	Nocturnal	1,1	Non-toxic	Cryptic	Forested areas	Direct	Santana et al., 2012; present study
<i>Adelophryne mucronata</i>	38	Nocturnal	1,4	Non-toxic	Cryptic	Forested areas	Direct	Lourenço-de-Moraes et al., 2012a; Haddad et al., 2013; present study
<i>Adelophryne pachydactyla</i>	301	Nocturnal	1,4	Non-toxic	Cryptic	Forested areas	Direct	Lourenço-de-Moraes et al., 2012; Haddad et al., 2013; present study
<i>Adenomera ajurauna</i>	27	Nocturnal	1,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Adenomera araucaria</i>	66	Nocturnal	1,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Adenomera bokermanni</i>	2624	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Adenomera engelsi</i>	45	Diurnal/nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Adenomera marmorata</i>	2378	Diurnal/nocturnal	2,1	Non-toxic	Cryptic	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Adenomera nana</i>	224	Nocturnal	1,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Adenomera thomei</i>	299	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Allobates alagoanus</i>	6	Diurnal	1,5	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Allobates capixaba</i>	578	Diurnal	1,6	Non-toxic	Rheophilic	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Allobates olfersioides</i>	2322	Diurnal	1,6	Non-toxic	Rheophilic	Open and Forested areas	Indirect	Haddad et al., 2013; Lourenço-de-Moraes et al., 2013; present study
<i>Aparasphenodon arapapa</i>	842	Nocturnal	4,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; Lourenço-de-Moraes et al., 2013; present study
<i>Aparasphenodon bokermanni</i>	2	Nocturnal	4,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Aparasphenodon</i>	2532	Nocturnal	8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study

<i>brunoi</i>									
<i>Aplastodiscus albofrenatus</i>	435	Nocturnal	3,9	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus albosignatus</i>	1077	Nocturnal	4,3	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus arildae</i>	1903	Nocturnal	3,7	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus callipygius</i>	404	Nocturnal	4,6	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus cavicola</i>	587	Nocturnal	3,7	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus cochranæ</i>	173	Nocturnal	4,5	Unpalatable or bad odour	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus ehrhardti</i>	395	Nocturnal	3,1	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus eugenioi</i>	269	Nocturnal	3,5	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus flumineus</i>	9	Nocturnal	4,5	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus ibirabitanga</i>	519	Nocturnal	4,1	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus leucoeygius</i>	1588	Nocturnal	4,5	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus musicus</i>	13	Nocturnal	5	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Lutz 1949; Cruz et al., .2004; present study	
<i>Aplastodiscus perviridis</i>	5781	Nocturnal	4,5	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Aplastodiscus sibilatus</i>	271	Nocturnal	3,2	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Aplastodiscus weygoldti</i>	34	Nocturnal	3,8	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Arcovomer passarellii</i>	779	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana albomarginata</i>	4594	Nocturnal	5,8	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Boana</i>	7663	Nocturnal	6,5	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	

<i>albopunctata</i>									
<i>Boana atlantica</i>	1007	Nocturnal	4	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Boana bischoffi</i>	2422	Nocturnal	5,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Boana caingua</i>	1241	Nocturnal	3,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Boana caipora</i>	14	Nocturnal	4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana crepitans</i>	7978	Nocturnal	6,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Boana curupi</i>	121	Nocturnal	4,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana cymbalum</i>	8	Nocturnal	4,9	Non-toxic	Arboreal	Open areas	Indirect	Bokermann 1963; Garcia & Rodrigues 2004	
<i>Boana exastis</i>	47	Nocturnal	9,2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Boana faber</i>	9183	Nocturnal	8,9	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Boana freicanecae</i>	1	Nocturnal	4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana guentheri</i>	373	Nocturnal	4,6	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Boana joaquina</i>	158	Nocturnal	5,4	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Boana latistriata</i>	24	Nocturnal	4,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana leptolineata</i>	1499	Nocturnal	3,3	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013	
<i>Boana lundii</i>	3083	Nocturnal	6,9	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Boana marginata</i>	205	Nocturnal	5,3	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana pardalis</i>	2279	Nocturnal	6,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Boana poaju</i>	7	Nocturnal	3,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013	
<i>Boana polytaenia</i>	1685	Nocturnal	3,6	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013	
<i>Boana pombali</i>	1055	Nocturnal	5,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Boana prasina</i>	2974	Nocturnal	4,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Boana pulchella</i>	2241	Nocturnal	4,5	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013	

<i>Boana punctata</i>	6355	Nocturnal	3,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Boana raniceps</i>	3978	Nocturnal	7,1	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Boana secedens</i>	129	Nocturnal	4,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Boana semiguttata</i>	222	Nocturnal	4,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Boana semilineata</i>	5012	Nocturnal	5,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Boana stellae</i>	164	Nocturnal	4,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Boana stenocephala</i>	7	Nocturnal	2,7	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla ahenea</i>	2	Nocturnal	5,2	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla astartea</i>	1101	Nocturnal	4,4	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Bokermannohyla capra</i>	32	Nocturnal	6,1	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla caramaschii</i>	358	Nocturnal	6,2	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Bokermannohyla carvalhoi</i>	168	Nocturnal	6,4	Unpalatable or bad odour	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla circumdata</i>	1109	Nocturnal	5,4	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Bokermannohyla claresignata</i>	101	Nocturnal	6,1	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Lutz & Lutz 1939; Carvalho-e-Silva & Caramaschi 2004; present study
<i>Bokermannohyla clepsydra</i>	67	Nocturnal	4	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Lutz 1925; Carvalho-e-Silva & Telles 2004a; present study
<i>Bokermannohyla diamantina</i>	6	Nocturnal	4,9	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla gouveai</i>	41	Nocturnal	6,9	Unpalatable or bad odour	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla hylax</i>	979	Nocturnal	6,6	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Bokermannohyla ibitipoca</i>	2	Nocturnal	3,9	Unpalatable or bad odour	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla itapoty</i>	25	Nocturnal	4,1	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013

<i>Bokermannohyla izecksohni</i>	2	Nocturnal	3,1	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla langei</i>	4	Nocturnal	6,6	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Bokermann 1965; Segalla & Silvano 2004; present study
<i>Bokermannohyla lucianae</i>	1	Nocturnal	4,7	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Bokermannohyla luctuosa</i>	450	Nocturnal	6,7	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla martinsi</i>	224	Nocturnal	7,3	Unpalatable or bad odour	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla nanuzae</i>	121	Nocturnal	4,4	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Bokermannohyla oxente</i>	1	Nocturnal	4,9	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Brachycephalus alipioi</i>	9	Diurnal	1,4	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus auroguttatus</i>	4	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus boticario</i>	2	Diurnal	1,2	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus brunneus</i>	1	Diurnal	1,2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus didactylus</i>	474	Diurnal	0,8	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus ephippium</i>	1863	Diurnal	1,9	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Brachycephalus ferruginus</i>	16	Diurnal	1,4	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus fuscolineatus</i>	2	Diurnal	1,2	Non-toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus garbeanus</i>	9	Diurnal	1,7	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus guarani</i>	23	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus hermogenesi</i>	653	Diurnal	1,1	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013

<i>Brachycephalus izecksohni</i>	4	Diurnal	1,3	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus leopardus</i>	2	Diurnal	1,2	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus margaritatus</i>	10	Diurnal	1,7	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus mariaterrezae</i>	2	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus nodoterga</i>	6	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus olivaceus</i>	2	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus pernix</i>	2	Diurnal	1,5	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus pitanga</i>	8	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus pombali</i>	10	Diurnal	1,5	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus pulex</i>	10	—	0,8	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus toby</i>	7	Diurnal	1,4	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus tridactylus</i>	14	Diurnal	1,4	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Brachycephalus verrucosus</i>	2	Diurnal	1,3	Toxic	Cryptic	Forested areas	Direct	Ribeiro et al., 2015
<i>Brachycephalus vertebralis</i>	66	Diurnal	1,4	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ceratophrys aurita</i>	5003	Nocturnal	14,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis alagoana</i>	5	Nocturnal	2,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis atlantica</i>	562	Nocturnal	3,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis capixaba</i>	495	Nocturnal	1,5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013

<i>Chiasmocleis carvalhoi</i>	741	Nocturnal	2,3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis cordeiroi</i>	1	Nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Indirect	Caramaschi & Pimenta 2003, 2004
<i>Chiasmocleis crucis</i>	1	Nocturnal	2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis gnoma</i>	1	Nocturnal	1,6	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis leucosticta</i>	1533	Diurnal/nocturnal	2,5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis mantiqueira</i>	2	Nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chiasmocleis sapiranga</i>	3	Nocturnal	2,5	Non-toxic	Cryptic	Forested areas	Indirect	Cruz et al., 2007; Ângulo 2008
<i>Chiasmocleis schubarti</i>	1398	Nocturnal	3,3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Chthonerpeton indistinctum</i>	528	—	43,5	—	Aquatic	Open and Forested areas	Direct	Haddad et al., 2013
<i>Chthonerpeton noctinectes</i>	3	—	34,5	—	Aquatic	Open and Forested areas	Direct	Silva et al., 2003; Wilkinson 2004
<i>Chthonerpeton viviparum</i>	12	—	55,8	—	Aquatic	Open and Forested areas	Direct	Taylor 1968; Measey et al., 2004
<i>Crossodactylodes bokermanni</i>	36	Nocturnal	1,4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylodes izecksohni</i>	4	Nocturnal	1,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylodes pintoï</i>	4	Nocturnal	1,7	Non-toxic	Arboreal	Forested areas	Indirect	Cochran 1938; Peixoto et al., 2004
<i>Crossodactylus aeneus</i>	1212	—	2,3	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus bokermanni</i>	2	—	2,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus caramaschii</i>	672	Diurnal/nocturnal	2,3	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Crossodactylus cyclospinus</i>	8	—	2,9	Non-toxic	Rheophilic	Forested areas	Indirect	Nascimento & Cruz 2005; Ângulo 2008

<i>Crossodactylus dantei</i>	2	—	2,2	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus dispar</i>	1187	Diurnal	3,1	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus gaudichaudii</i>	783	Diurnal/nocturnal	3,1	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus grandis</i>	133	Diurnal	4,2	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus lutzorum</i>	4	—	2,6	Non-toxic	Rheophilic	Forested areas	Indirect	Carcereli & Caramaschii 1993; Silvano & 2004b; Pimenta et al., 2014
<i>Crossodactylus schmidti</i>	255	Nocturnal	2,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Crossodactylus trachystomus</i>	25	—	2,5	Non-toxic	Rheophilic	Forested areas	Indirect	Cochran 1955; Pimenta & Nascimento 2010
<i>Cycloramphus acangatan</i>	125	Nocturnal	4,3	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Cycloramphus asper</i>	188	Nocturnal	3,5	—	Rheophilic	Forested areas	Indirect	Cochran 1955; Heyer et al., 2004
<i>Cycloramphus bandeirensis</i>	5	—	4,5	—	Rheophilic	Open areas	Indirect	Haddad et al., 2013
<i>Cycloramphus bolitoglossus</i>	306	Nocturnal	3,8	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus boraceiensis</i>	571	Nocturnal	4,7	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Cycloramphus brasiliensis</i>	340	Nocturnal	6,2	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Cycloramphus carvalhoi</i>	5	—	5,6	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus catarinensis</i>	2	Nocturnal	3,5	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus cedrensis</i>	9	—	4,9	—	Rheophilic	Forested areas	Indirect	Heyer 1983; Heyer & Silvano 2004a
<i>Cycloramphus diringshofeni</i>	53	—	3,1	—	Rheophilic	Forested areas	Indirect	Bokermann 1965; Heyer et al., 2004
<i>Cycloramphus dubius</i>	32	Nocturnal	4,9	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013

<i>Cycloramphus duseni</i>	9	—	3,7	—	Rheophilic	Forested areas	Indirect	Heyer 1983; Verdade & Segalla 2004
<i>Cycloramphus eleutherodactylus</i>	1891	Nocturnal	4,8	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Cycloramphus fuliginosus</i>	1052	Nocturnal	3,3	—	Rheophilic	Forested areas	Indirect	Cochran 1955; Verdade & Carvalho-e-Silva 2004
<i>Cycloramphus granulosis</i>	104	—	4,2	—	Rheophilic	Forested areas	Indirect	Bokermann 1951; Heyer & Verdade 2004
<i>Cycloramphus izecksohni</i>	226	Nocturnal	4	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus juimirim</i>	5	Nocturnal	3	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus lithomimeticus</i>	62	Nocturnal	3,1	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus lutzorum</i>	634	Nocturnal	4,1	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus migueli</i>	24	—	4,2	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus mirandaribeiroi</i>	4	—	6,9	—	Rheophilic	Forested areas	Indirect	Heyer 1983; Heyer & Silvano 2004b
<i>Cycloramphus ohausi</i>	17	—	3,8	—	Rheophilic	Forested areas	Indirect	Cochran 1955; Rodrigues & Carvalho-e-Silva 2004b
<i>Cycloramphus organensis</i>	31	Nocturnal	3,2	—	Rheophilic	Open areas	Indirect	Haddad et al., 2013
<i>Cycloramphus rhyakonastes</i>	17	Nocturnal	4,2	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Cycloramphus semipalmatus</i>	108	—	5	—	Rheophilic	Forested areas	Indirect	Heyer 1983; Verdade & Heyer 2004a
<i>Cycloramphus stejneri</i>	17	—	5,6	—	Cryptic	Forested areas	Indirect	Heyer 1983; Verdade & Heyer 2004b
<i>Cycloramphus valae</i>	96	—	3,6	—	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Dasypops schirchi</i>	186	Nocturnal	5,2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Dendrophryniscus berthallutzae</i>	374	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Dendrophryniscus</i>	758	Nocturnal	2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study

<i>brevipollicatus</i>								
<i>Dendrophryniscus carvalhoi</i>	31	—	1,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Dendrophryniscus krausae</i>	8	—	2,3	Non-toxic	Fossorial	Forested areas	Indirect	Haddad et al., 2013
<i>Dendrophryniscus leucomystax</i>	905	Nocturnal	2,5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Dendrophryniscus oreites</i>	29	—	2,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Dendrophryniscus proboscideus</i>	1353	Nocturnal	4,1	Toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Dendrophryniscus stawiarskyi</i>	2	—	2,2	—	—	Forested areas	Indirect	Izecksohn 1994; Silvano et al., 2004
<i>Dendropsophus anceps</i>	2294	Nocturnal	4,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Dendropsophus berthallutzae</i>	998	Nocturnal	2,4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus bipunctatus</i>	1622	Nocturnal	2,6	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus branneri</i>	3285	Nocturnal	2,3	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus decipiens</i>	4178	Nocturnal	1,9	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus dutrai</i>	44	Nocturnal	3,8	—	Arboreal	Forested areas	Indirect	Gomes & Peixoto 1996; Silvano & Peixoto 2004a
<i>Dendropsophus elegans</i>	5047	Nocturnal	3,1	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus giesleri</i>	855	Nocturnal	2,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus haddadi</i>	1029	Nocturnal	2,3	Non-toxic	Arboreal	Open and Forested areas	Indirect	Lourenço-de-Moraes et al., 2012b; Haddad et al., 2013; present study
<i>Dendropsophus limai</i>	4	Nocturnal	1,9	—	Arboreal	Forested areas	Indirect	Bokermann 1962; Carvalho-e-Silva 2004
<i>Dendropsophus meridianus</i>	248	Nocturnal	1,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus</i>	3122	Nocturnal	2,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study

<i>micros</i>								
<i>Dendropsophus minutus</i>	9676	Nocturnal	2,5	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus nahderere</i>	288	Nocturnal	4,6	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus nanus</i>	7282	Nocturnal	2,3	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus novaisi</i>	40	Nocturnal	3,4	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Dendropsophus oliveirai</i>	811	Nocturnal	1,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Dendropsophus pseudomeridianus</i>	200	Nocturnal	1,7	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Dendropsophus ruschii</i>	26	Nocturnal	2,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus sanorni</i>	3410	Nocturnal	2	Unpalatable or bad odour	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Dendropsophus seniculus</i>	2681	Nocturnal	3,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus soaresi</i>	315	Nocturnal	3,5	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Dendropsophus studerae</i>	2	Nocturnal	2,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Dendropsophus weneri</i>	923	Nocturnal	1,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Elaschitocleis bicolor</i>	3457	Nocturnal	3,8	Non-toxic	Fossorial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Elaschitocleis cesarii</i>	7121	Nocturnal	3,2	Non-toxic	Fossorial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Elaschitocleis erythrogaster</i>	37	Nocturnal	3,5	Non-toxic	Fossorial	Open areas	Indirect	Haddad et al., 2013
<i>Eleutherodactylus bilineatus</i>	550	Nocturnal	2,6	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013; present study
<i>Euparkerella brasiliensis</i>	369	Diurnal/nocturnal	1,7	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Euparkerella</i>	186	Diurnal/nocturnal	1,6	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study

<i>cochranae</i>								
<i>Euparkerella cryptica</i>	2	Diurnal/nocturnal	1,9	Non-toxic	Cryptic	Forested areas	Direct	Izecksohn 1998
<i>Euparkerella robusta</i>	2	Diurnal/nocturnal	2,3	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Euparkerella tridactyla</i>	2	Diurnal/nocturnal	1,5	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Fritziana fissilis</i>	934	Nocturnal	2,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Fritziana goeldii</i>	1825	Nocturnal	3,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Fritziana ohausi</i>	977	Nocturnal	3,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Frostius erythrophthalmus</i>	435	Nocturnal	2,3	Toxic	Fossorial	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Frostius pernambucensis</i>	1008	Nocturnal	2,1	Toxic	Fossorial	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Gastrotheca albolineata</i>	703	Nocturnal	6	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013; present study
<i>Gastrotheca ernestoi</i>	321	Nocturnal	6,9	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca fissipes</i>	1550	Nocturnal	7,2	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca flamma</i>	1	Nocturnal	5,5	Non-toxic	Arboreal	Forested areas	Direct	Juncá & Nunes 2008
<i>Gastrotheca fulvorufa</i>	495	Nocturnal	6,9	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca megacephala</i>	895	Nocturnal	10,1	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013; Lourenço-de-Moraes et al., 2016; present study
<i>Gastrotheca microdiscus</i>	1645	Nocturnal	5,9	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca prasina</i>	12	Nocturnal	9,7	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca pulchra</i>	5	Nocturnal	3,3	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013
<i>Gastrotheca recava</i>	6	Nocturnal	7,6	Non-toxic	Arboreal	Forested areas	Direct	Haddad et al., 2013; Lourenço-de-Moraes et al., 2016; present study
<i>Haddadus</i>	2	Nocturnal	6,2	Non-toxic	Cryptic	Open areas	Direct	Haddad et al., 2013

<i>aramunha</i>								
<i>Haddadus binotatus</i>	4965	Nocturnal	6,5	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Haddadus plicifer</i>	1	Nocturnal	1,7	—	—	—	Direct	Hedges et al., 2008
<i>Holoaden bradei</i>	26	—	2,5	Toxic	Cryptic	Open and Forested areas	Direct	Haddad et al., 2013
<i>Holoaden luederwaldti</i>	473	Nocturnal	4,6	Toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Holoaden pholeter</i>	14	Nocturnal	4,6	Toxic	Cryptic	Open and Forested areas	Direct	Haddad et al., 2013
<i>Hylodes amnicola</i>	8	Diurnal	2,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes asper</i>	967	Diurnal	4,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Hylodes babax</i>	32	Diurnal	3,2	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes cardosoi</i>	65	Diurnal	4	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes charadranaetes</i>	73	Diurnal	4,3	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes dactylocinus</i>	19	Diurnal	2,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Hylodes fredii</i>	1	Diurnal	3,7	Non-toxic	Rheophilic	Forested areas	Indirect	Canedo & Pombal 2007
<i>Hylodes glaber</i>	7	Diurnal	2,9	Non-toxic	Rheophilic	Forested areas	Indirect	Mir&a-Ribeiro 1926; Rocha et al., 2004 ^a
<i>Hylodes heyeri</i>	291	Diurnal	4,3	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes lateristrigatus</i>	989	Diurnal	3,5	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes magalhaesi</i>	46	Diurnal	3,4	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes meridionalis</i>	102	Diurnal	4,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Hylodes mertensi</i>	8	Diurnal	5,4	Non-toxic	Rheophilic	Forested areas	Indirect	Bokermann 1956; Rocha et al., 2004b
<i>Hylodes nasus</i>	1510	Diurnal	3,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes ornatus</i>	318	Diurnal	2,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes otavioi</i>	7	Diurnal	3,4	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013

<i>Hylodes perere</i>	30	Diurnal	2,7	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes perplicatus</i>	83	Diurnal	4,4	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes phyllodes</i>	468	Diurnal	3	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes pipilans</i>	5	Diurnal	2,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Hylodes regius</i>	61	Diurnal	3,5	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes sazimai</i>	228	Diurnal	2,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Hylodes uai</i>	24	Diurnal	3,8	Non-toxic	Rheophilic	Forested areas	Indirect	Nascimento et al., 2001; Nascimento & Pimenta 2010
<i>Hylodes vanzolinii</i>	4	Diurnal	2,9	Non-toxic	Rheophilic	Forested areas	Indirect	Heyer 1982; Heyer & Peixoto 2004
<i>Hylomantis aspera</i>	234	Nocturnal	4,4	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Hylomantis granulosa</i>	383	Nocturnal	4,8	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Hyophryne histrio</i>	9	Nocturnal	4,8	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Ischnocnema lactea</i>	2020	Nocturnal	3,2	Non-toxic	Cryptic	Forested areas	Direct	Mir&a-Ribeiro 1923; Hedges et al., 2008; present study
<i>Ischnocnema paranaesis</i>	1	—	1,8	Non-toxic	Cryptic	Forested areas	Direct	Langone & Segalla 1996; Hedges et al., 2008
<i>Ischnocnema abdita</i>	23	—	1,6	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema bolbodactyla</i>	410	—	1,9	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema concolor</i>	4	Nocturnal	2	Non-toxic	Cryptic	Open and Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema epipeda</i>	2	—	2,9	Non-toxic	Cryptic	Forested areas	Direct	Heyer 1984; Silvano & Peixoto 2004b
<i>Ischnocnema erythromera</i>	35	Nocturnal	3	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Ischnocnema gehrti</i>	1	—	1,5	Non-toxic	Cryptic	Forested areas	Direct	Pombal & Cruz 1999; Van Luiz & Cruz 2004; Hedges et al., 2008
<i>Ischnocnema gualteri</i>	19	—	4	Non-toxic	Cryptic	Forested areas	Direct	Lutz 1974; Carvalho-e-Silva et al., 2004; present study
<i>Ischnocnema guentheri</i>	3635	Nocturnal	4	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013; present study

<i>Ischnocnema henselii</i>	1233	Nocturnal	3,6	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Ischnocnema hoehnei</i>	422	—	2,9	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema holti</i>	6	Nocturnal	1,7	Non-toxic	Fossorial	Open and Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema izecksohni</i>	82	—	4,7	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema juipoca</i>	2010	—	2,3	Non-toxic	Cryptic	Open and Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema karst</i>	7	—	2,3	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema manezinho</i>	247	Nocturnal	3,3	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema melanopygia</i>	1	—	2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema nasuta</i>	3936	—	3,9	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema nigriventris</i>	4	—	1,9	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema octavioi</i>	342	—	3,2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema oea</i>	2	Nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema parva</i>	1423	Nocturnal	2	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Ischnocnema pusilla</i>	11	Nocturnal	1,6	Non-toxic	Cryptic	Forested areas	Direct	Bokermann 1967; Cruz & Carvalho-e-Silva 2004a; Hedges et al., 2008
<i>Ischnocnema randorum</i>	5	Nocturnal	1,8	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema sambaqui</i>	34	Nocturnal	3,7	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema spanios</i>	190	—	2,1	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013
<i>Ischnocnema venancioi</i>	76	—	2	Non-toxic	Cryptic	Forested areas	Direct	Lutz 1958; Carvalho-e-Silva 2004 ^a
<i>Ischnocnema verrucosa</i>	855	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013

<i>Ischnocnema vizottoi</i>	40	Nocturnal	2	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013
<i>Itapotihyla langsdorffii</i>	4454	Nocturnal	10,3	Unpalatable or bad odour	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus cupreus</i>	12	Nocturnal	5,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Leptodactylus flavopictus</i>	1014	Nocturnal	13,2	Toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Leptodactylus furnarius</i>	3093	Nocturnal	4,2	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Leptodactylus fuscus</i>	9759	Nocturnal	4,4	Non-toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus gracilis</i>	3623	Nocturnal	4,4	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013
<i>Leptodactylus hylodes</i>	2	—	2,5	—	—	—	—	Heyer 2000
<i>Leptodactylus jolyi</i>	7	Nocturnal	5,4	Non-toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Leptodactylus labyrinthicus</i>	4539	Nocturnal	15,5	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus latrans</i>	9670	Nocturnal	9,6	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus macrosternum</i>	8302	Nocturnal	9	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Leptodactylus marambaiae</i>	4	—	4,1	—	—	—	Indirect	Izecksohn 1976; Carvalho-e-Silva & Cruz 2004b
<i>Leptodactylus mystaceus</i>	830	Nocturnal	5,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Leptodactylus mystacinus</i>	9605	Nocturnal	5,5	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus natalensis</i>	2132	Nocturnal	5,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus notoaktites</i>	2253	Nocturnal	5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus plaumanni</i>	2141	Nocturnal	3,8	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013

<i>Leptodactylus podicipinus</i>	2529	Nocturnal	4,2	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013; present study
<i>Leptodactylus spixii</i>	3808	Nocturnal	5,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Leptodactylus troglodytes</i>	1011	Nocturnal	5,1	Non-toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Leptodactylus vastus</i>	886	Nocturnal	15	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Leptodactylus viridis</i>	234	Nocturnal	7,2	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Limnomedusa macroglossa</i>	1590	Nocturnal	5,4	—	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Lithobates catesbeianus</i>	1198	Nocturnal	8,9	Non-toxic	Semi-aquatic	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Lithobates palmipes</i>	346	Nocturnal	11,3	Non-toxic	Semi-aquatic	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Luetkenotyphlus brasiliensis</i>	3313	—	27	—	Fossorial	Open and Forested areas	Direct	Haddad et al., 2013
<i>Macrogenioglottus alipioi</i>	2512	Nocturnal	9,1	Toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Megaelosia apuana</i>	2	Diurnal	8,1	Non-toxic	Rheophilic	Forested areas	Indirect	Pombal et al., 2003; Pombal 2004
<i>Megaelosia bocainensis</i>	5	Diurnal	10,1	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Megaelosia boticariana</i>	3	—	7,8	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Megaelosia goeldii</i>	451	Diurnal	10	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Megaelosia lutzae</i>	7	Diurnal	9,6	Non-toxic	Rheophilic	Forested areas	Indirect	Izecksohn & Gouvêa 1987; Carvalho-e-Silva & Telles 2004b
<i>Megaelosia massarti</i>	38	Diurnal	11,5	Non-toxic	Rheophilic	Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus admirabilis</i>	7	Diurnal	3,8	Toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus alipioi</i>	5	Diurnal	2,5	Toxic	Phytotelmate	Open areas	Indirect	Haddad et al., 2013; present study

<i>Melanophryniscus cambaraensis</i>	22	Diurnal/nocturnal	3,5	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus dorsalis</i>	110	Diurnal	2,5	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus macrogranulosus</i>	2	—	3,5	Toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus moreirae</i>	17	Diurnal	2,9	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus peritus</i>	2	Diurnal	4	Toxic	—	—	Indirect	Caramaschi & Cruz 2011;
<i>Melanophryniscus setiba</i>	67	Diurnal	1,5	Toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus simplex</i>	9	Nocturnal	2,8	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus spectabilis</i>	1	Diurnal	3,1	Toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus tumifrons</i>	1480	—	3,1	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Melanophryniscus vilavelhensis</i>	13	Nocturnal	1,7	Toxic	Phytotelmate	Open areas	Indirect	Haddad et al., 2013
<i>Mimosiphonops vermiculatus</i>	4	—	18,7	—	Cryptic	Forested areas	Direct	Taylor 1968; Silvano et al., 2004 ^a
<i>Myersiella microps</i>	1236	Nocturnal	3,1	Non-toxic	Fossorial	Forested areas	Direct	Haddad et al., 2013; present study
<i>Odontophrynus americanus</i>	8662	Nocturnal	4,9	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Odontophrynus carvalhoi</i>	657	Nocturnal	6,7	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Odontophrynus maisuma</i>	8390	Nocturnal	4,1	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Ololygon agilis</i>	825	Diurnal/nocturnal	1,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon albicans</i>	464	Nocturnal	3	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon angrensis</i>	102	Diurnal/nocturnal	3,4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon arduous</i>	2	Diurnal/nocturnal	2,1	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013; present study

<i>Ololygon argyromatus</i>	2218	Nocturnal	2,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon ariadne</i>	60	Nocturnal	4,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon aromothyella</i>	10	Nocturnal	2,6	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Ololygon atrata</i>	31	___	2	Non-toxic	Arboreal	___	Indirect	Peixoto 1989
<i>Ololygon belloni</i>	5	Nocturnal	3,9	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon brieni</i>	805	Nocturnal	3,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon carnevallii</i>	960	Nocturnal	3,2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon catharinae</i>	716	Nocturnal	4,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon cosenzai</i>	10	Nocturnal	2,3	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Ololygon flavoguttata</i>	1911	Nocturnal	4,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon heyeri</i>	30	Nocturnal	3,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon hiemalis</i>	964	Nocturnal	3,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon humilis</i>	851	Nocturnal	2,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon insperata</i>	5	Nocturnal	2,3	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon jureia</i>	5	Nocturnal	3	Non-toxic	Arboreal	Forested areas	Indirect	Pombal & Gordo 1991; Rodrigues & Cruz 2004a
<i>Ololygon kautskyi</i>	1	___	2,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon littoralis</i>	300	Nocturnal	3,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon littoreus</i>	113	Nocturnal	2,2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon longilinea</i>	861	Nocturnal	4,2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon luizotavioi</i>	1178	Nocturnal	2,5	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon machadoi</i>	908	Nocturnal	2,4	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013

<i>Ololygon melloi</i>	19	—	1,9	Non-toxic	Arboreal	—	Indirect	Peixoto 1989; Cruz & Telles 2004
<i>Ololygon obtriangulata</i>	1574	Nocturnal	3,5	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon peixotoi</i>	34	Nocturnal	2,3	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon perpusilla</i>	861	Nocturnal	2	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Ololygon ranki</i>	76	Nocturnal	2,3	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon rizibilis</i>	1817	Diurnal/nocturnal	3	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon strigilata</i>	310	Nocturnal	3,8	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Ololygon x-signata</i>	7889	Nocturnal	4,1	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Osaecilia hypereumeces</i>	1	—	64	—	Cryptic	Forested areas	Direct	Taylor 1968; Silvano et al., 2004b
<i>Paratelmatoobius cardosoi</i>	28	Nocturnal	1,7	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Paratelmatoobius gaigeae</i>	5	Nocturnal	1,8	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Paratelmatoobius lutzii</i>	2	—	2,4	—	Cryptic	Open areas	Indirect	Haddad et al., 2013
<i>Paratelmatoobius mantiquera</i>	4	—	1,6	—	Terrestrial	Forested areas	Indirect	Pombal & Haddad 1999
<i>Paratelmatoobius poecilogaster</i>	34	Nocturnal	2,7	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Paratelmatoobius yepiranga</i>	16	Nocturnal	2,1	—	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Phasmahyla cochranai</i>	1126	Nocturnal	3,2	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phasmahyla exilis</i>	438	Nocturnal	2,9	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phasmahyla guttata</i>	917	Nocturnal	3,8	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Phasmahyla jandaia</i>	230	Nocturnal	3,6	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013

<i>Phasmahyla spectabilis</i>	127	Nocturnal	4,6	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phasmahyla timbo</i>	5	Nocturnal	3,5	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phrynomedusa appendiculata</i>	20	---	3,5	Toxic	Arboreal	Forested areas	Indirect	Cruz 1991; Garcia et al., 2004
<i>Phrynomedusa bokermanni</i>	4	---	4,6	Toxic	Arboreal	Forested areas	Indirect	Cruz ruz & Caramaschi 2004
<i>Phrynomedusa fimbriata</i>	4	---	4,5	Toxic	Arboreal	Forested areas	Indirect	Cruz 1991; Cruz & Pimenta 2004
<i>Phrynomedusa marginata</i>	747	Nocturnal	3,1	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phrynomedusa vanzolinii</i>	229	---	3,6	Toxic	Arboreal	Forested areas	Indirect	Cruz 1991; Cruz & Carvalho-e-Silva 2004b
<i>Phyllodytes acuminatus</i>	996	---	2,4	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013
<i>Phyllodytes brevisrostris</i>	4	---	2,4	Non-toxic	Phytotelmate	Forested areas	Indirect	Peixoto & Cruz 1998; Skuk et al., 2004
<i>Phyllodytes edelmoi</i>	196	---	2,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phyllodytes gyrinaethes</i>	105	---	2,6	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phyllodytes kautskyi</i>	657	Diurnal/nocturnal	4	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Phyllodytes luteolus</i>	1671	Nocturnal	2,5	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Phyllodytes maculosus</i>	435	Nocturnal	4,9	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013; Ferreira et al., 2016; present study
<i>Phyllodytes melanomystax</i>	547	Nocturnal	2,3	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Phyllodytes punctatus</i>	1	---	2,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Phyllodytes tuberculosus</i>	42	Nocturnal	2,4	Non-toxic	Phytotelmate	Open areas	Indirect	Haddad et al., 2013; present study
<i>Phyllodytes wuchereri</i>	615	Nocturnal	2,7	Non-toxic	Phytotelmate	Forested areas	Indirect	Haddad et al., 2013
<i>Phyllomedusa</i>	337	Nocturnal	7,5	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013

<i>bahiana</i>									
<i>Phyllomedusa burmeisteri</i>	4892	Nocturnal	6	Toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Phyllomedusa distincta</i>	1766	Nocturnal	6	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Phyllomedusa iheringii</i>	47	Nocturnal	6,8	Toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013	
<i>Phyllomedusa nordestina</i>	1805	Nocturnal	3,7	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Phyllomedusa rohdei</i>	2021	Nocturnal	4,6	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Phyllomedusa tetraploidea</i>	3440	Nocturnal	6,6	Toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Physalaemus aguirrei</i>	976	Nocturnal	2,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus angrensis</i>	2	—	2	Non-toxic	Cryptic	Forested areas	Indirect	Weber et al., 2006	
<i>Physalaemus atlanticus</i>	1	Nocturnal	2,1	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus barrioi</i>	6	Nocturnal	2,9	Non-toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013	
<i>Physalaemus bokermanni</i>	4	Nocturnal	1,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus caeté</i>	37	—	2,5	Non-toxic	Cryptic	Forested areas	Indirect	Pombal & Madureira 1997; Freire & Silvano 2004	
<i>Physalaemus camacan</i>	1	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Physalaemus crombiei</i>	1267	Nocturnal	2,3	Non-toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus cuvieri</i>	9704	Nocturnal	3,1	Non-toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Physalaemus erikae</i>	222	Nocturnal	2,6	Non-toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus feioi</i>	400	Nocturnal	2,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Physalaemus insperatus</i>	2	—	2,6	Non-toxic	Cryptic	Forested areas	Indirect	Cruz et al., 2008; Ângulo 2009	

<i>Physalaemus irroratus</i>	6	—	2,3	Non-toxic	Cryptic	Forested areas	Indirect	Cruz et al., 2007
<i>Physalaemus jordanensis</i>	363	Nocturnal	2,8	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013
<i>Physalaemus kroyeri</i>	769	Nocturnal	2,9	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013
<i>Physalaemus lateristriga</i>	185	Nocturnal	3,5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus lisei</i>	681	Nocturnal	3	Non-toxic	Cryptic	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus maculiventris</i>	1481	Nocturnal	2,3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus maximus</i>	114	Nocturnal	4,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus moreirae</i>	86	Nocturnal	2,6	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus nanus</i>	573	Nocturnal	2,1	Non-toxic	Cryptic	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus obtectus</i>	482	Nocturnal	2,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus olfersii</i>	2346	Nocturnal	3,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus signifer</i>	1688	Nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Physalaemus soaresi</i>	6	Nocturnal	2,1	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Physalaemus spiniger</i>	286	Nocturnal	2,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Pipa carvalhoi</i>	2152	Diurnal/nocturnal	5,5	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Pristimantis paulodutraii</i>	708	Nocturnal	3,6	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Pristimantis ramagii</i>	1272	Nocturnal	2,4	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Pristimantis vinhai</i>	763	Nocturnal	2,5	Non-toxic	Cryptic	Forested areas	Direct	Haddad et al., 2013; present study
<i>Proceratophrys</i>	1226	Nocturnal	6,3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study

<i>appendiculata</i>									
<i>Proceratophrys avelinoi</i>	2412	Nocturnal	2,6	Non-toxic	Cryptic	Open and Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Proceratophrys bigibbosa</i>	913	Nocturnal	5,3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys boiei</i>	5334	Nocturnal	5,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Proceratophrys brauni</i>	410	Diurnal/nocturnal	3,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys cristiceps</i>	722	Nocturnal	6,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys cururu</i>	1	Nocturnal	5,4	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys laticeps</i>	1287	Nocturnal	6,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Proceratophrys melanopogon</i>	532	Nocturnal	5,1	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys minuta</i>	11	Nocturnal	3	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys moehringi</i>	66	Nocturnal	6,3	Non-toxic	Cryptic	Forested areas	Indirect	Weygoldt & Peixoto 1985; Peixoto & Silvano 2004a	
<i>Proceratophrys paviotii</i>	2	Nocturnal	4,7	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys phyllostoma</i>	4	Nocturnal	5,6	Non-toxic	Cryptic	Forested areas	Indirect	Izecksohn et al., 1999; Peixoto & Silvano 2004b	
<i>Proceratophrys renalis</i>	1366	Nocturnal	5,5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study	
<i>Proceratophrys sanctaritae</i>	10	Nocturnal	4,1	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys schirchi</i>	1531	Nocturnal	5	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Proceratophrys subguttata</i>	309	Nocturnal	4,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013	
<i>Pseudis bolbodactyla</i>	1951	Nocturnal	4,5	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013; present study	
<i>Pseudis cardosoi</i>	257	Nocturnal	4,5	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013	

<i>Pseudis fusca</i>	221	Nocturnal	4,1	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Pseudis minuta</i>	795	Nocturnal	3,7	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Pseudis paradoxa</i>	1464	Nocturnal	5,3	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Pseudopaludicola falcipes</i>	5436	Diurnal/nocturnal	1,8	Non-toxic	Cryptic	Open areas	Indirect	Haddad et al., 2013
<i>Rhinella abei</i>	531	Nocturnal	9,3	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella achavali</i>	306	Nocturnal	12	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Rhinella crucifer</i>	1943	Nocturnal	10,1	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella dorbignyi</i>	57	Nocturnal	5,6	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Rhinella fernandezae</i>	971	Nocturnal	5,7	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Rhinella granulosa</i>	8540	Nocturnal	5,3	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella henseli</i>	940	Nocturnal	7	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella hoogmoedi</i>	2257	Nocturnal	5,6	Toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella icterica</i>	7322	Nocturnal	13,7	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella Jimi</i>	2658	Nocturnal	14,5	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Rhinella ornata</i>	2158	Nocturnal	7,9	Toxic	Terrestrial	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Rhinella pygmaea</i>	305	Nocturnal	4,1	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013
<i>Rhinella diptycha</i>	9416	Nocturnal	13	Toxic	Terrestrial	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax alter</i>	3319	Nocturnal	2,8	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax auratus</i>	956	—	2,6	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Scinax caldarum</i>	1052	Nocturnal	2,9	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax cardosoi</i>	282	—	2,6	Non-toxic	Arboreal	—	Indirect	Carvalho-e-Silva & Peixoto 1991; Carvalho-e-Silva & Caramaschi 2004

<i>Scinax cretatus</i>	66	Nocturnal	3,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax crospedospilus</i>	777	Nocturnal	3,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Scinax cuspidatus</i>	2246	Nocturnal	3,1	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax duartei</i>	1040	Nocturnal	3	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax eurydice</i>	3145	Nocturnal	5,3	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax fuscomarginatus</i>	6859	Nocturnal	2,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax fuscovarios</i>	9363	Nocturnal	4,5	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax granulatus</i>	2971	Nocturnal	4,1	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax hayii</i>	1965	Nocturnal	5,1	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Scinax imbegue</i>	16	Nocturnal	3,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax juncae</i>	23	Nocturnal	2,4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Scinax pachycrus</i>	820	Nocturnal	3,2	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax perereca</i>	3047	Nocturnal	4,3	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Scinax similis</i>	451	Nocturnal	3,8	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013; present study
<i>Scinax squalitostris</i>	8423	Nocturnal	2,7	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax trapicheiroi</i>	239	Nocturnal	2,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Scinax tymbamirim</i>	12	Nocturnal	2,6	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax uruguayus</i>	1520	Nocturnal	2,8	Non-toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013
<i>Scinax v-signatus</i>	767	Nocturnal	2,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Scythroehrys sawayae</i>	226	Nocturnal	2,1	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Siphonops annulatus</i>	8685	—	45,4	Toxic	Fossorial	Open and Forested areas	Direct	Haddad et al., 2013; present study
<i>Siphonops hardyi</i>	288	—	17,8	—	Fossorial	Open and Forested areas	Direct	Haddad et al., 2013

<i>Siphonops insulanus</i>	19	—	19	—	Fossorial	Open and Forested areas	Direct	Taylor 1968; Caramaschi et al., 2004
<i>Siphonops paulensis</i>	8614	—	30	—	Fossorial	Open and Forested areas	Inirect	Haddad et al., 2013
<i>Sphaenorhynchus botocudo</i>	13	Nocturnal	2,7	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus bromelicola</i>	2	Nocturnal	2,8	Non-toxic	Phytotelmate	Forested areas	Indirect	Bokermann 1966; Silvano & Peixoto 2004c
<i>Sphaenorhynchus caramaschii</i>	846	Nocturnal	2,7	Non-toxic	Aquatic	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus mirim</i>	9	Nocturnal	1,7	Non-toxic	Aquatic	Open areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus orophilus</i>	732	Nocturnal	3,2	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus palustres</i>	1398	Nocturnal	3,1	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus pauloalvini</i>	424	Nocturnal	1,9	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus planicola</i>	1008	Nocturnal	2	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus prasinus</i>	2031	Nocturnal	2,8	Non-toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Sphaenorhynchus surdus</i>	1046	Nocturnal	2,8	Non-toxic	Aquatic	Open and Forested areas	Indirect	Haddad et al., 2013
<i>Stereocyclops incrassatus</i>	2051	Nocturnal	6,2	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Stereocyclops parkeri</i>	258	Nocturnal	6	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Thoropa lutzi</i>	703	Nocturnal	2,6	Non-toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Thoropa miliaris</i>	3966	Nocturnal	6,3	Non-toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Thoropa petropolitana</i>	209	—	7,5	—	Terrestrial	Forested areas	Indirect	Cochrann 1955; Carvalho-e-Silva & Peixoto 2004
<i>Thoropa saxatilis</i>	145	Nocturnal	5,9	Non-toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Thoropa taophora</i>	499	Nocturnal	6,3	Non-toxic	Terrestrial	Forested areas	Indirect	Haddad et al., 2013
<i>Trachycephalus</i>	323	Nocturnal	10,7	Toxic	Arboreal	Open areas	Indirect	Haddad et al., 2013

<i>atlas</i>								
<i>Trachycephalus dibernardoi</i>	809	Nocturnal	7,8	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Trachycephalus imitatrix</i>	2792	Nocturnal	7,1	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Trachycephalus lepidus</i>	4	Nocturnal	5,9	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Trachycephalus mesophaeus</i>	5477	Diurnal/nocturnal	6,9	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Trachycephalus nigromaculatus</i>	3490	Nocturnal	9,2	Toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Trachycephalus typhoni</i>	4913	Nocturnal	9,2	Toxic	Arboreal	Open and Forested areas	Indirect	Haddad et al., 2013; present study
<i>Vitreorana eurygnatha</i>	4334	Nocturnal	2,4	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Vitreorana uranoscopa</i>	5065	Nocturnal	2,7	Non-toxic	Arboreal	Forested areas	Indirect	Haddad et al., 2013; present study
<i>Xenohyla eugenioi</i>	147	Nocturnal	4,5	—	Arboreal	Open and Forested areas	Indirect	Caramaschi 1998; Silvano & Pimenta 2004a
<i>Xenohyla truncata</i>	218	Nocturnal	5	—	Arboreal	Forested areas	Indirect	Haddad et al., 2013
<i>Zachaenus carvalhoi</i>	2	Nocturnal	2,8	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013
<i>Zachaenus parvulus</i>	268	Nocturnal	2,9	Non-toxic	Cryptic	Forested areas	Indirect	Haddad et al., 2013; present study

TABLE 1.2 Specific functions, ecosystem supporting services and references related to the amphibian functional traits assessed in the Brazilian Atlantic Forest.

Functional traits	Specific functions	Ecosystem supporting services	References
Body size (mm)	Hunting tolerance, dispersal ability, predator-prey relationships, sexual selection	Trophic transfer, nutrient cycling, protection of primary productivity by controlling herbivores	Duellman & Trueb 1994, Wells, 2007, Toledo et al., 2007, Haddad et al., 2013, Hocking & Babbitt 2014
Activity time (subtraits: nocturnal, diurnal, and both)	Dispersal ability, predator-prey relationships, sexual selection	Trophic transfer, nutrient cycling	Duellman & Trueb 1994, Wells, 2007, Haddad et al., 2013, Hocking & Babbitt 2014
Toxicity (subtraits: toxic, non-toxic, unpalatable or bad odor, and no poison)	Hunting tolerance, predator-prey relationships	Trophic transfer, nutrient cycling	Duellman & Trueb 1994, Wells, 2007, Haddad et al., 2013, Hocking & Babbitt 2014
Habitat (subtraits: forested area, open area, and both)	Dispersal ability, predator-prey relationships	Trophic transfer, faunal food chains, nutrient cycling, soil bioturbation, ecosystem engineering	Duellman & Trueb 1994, Wells, 2007, Haddad et al., 2013, Hocking & Babbitt 2014
Habit (subtraits: arboreal, phytotelmate, terrestrial, cryptic, fossorial, rheophilic, semi-aquatic, and aquatic)	Dispersal ability, predator-prey relationships	Trophic transfer, faunal food chains, soil bioturbation, ecosystem engineering, decomposition (tadpoles), nutrient cycling	Duellman & Trueb 1994, Wells, 2007, Haddad et al., 2013, Hocking & Babbitt 2014
Reproductive mode (subtraits: direct or indirect)	Dispersal ability, predator-prey relationships, sexual selection	Trophic transfer, faunal food chains, nutrient cycling, soil bioturbation, decomposition (tadpoles), ecosystem engineering	Duellman & Trueb 1994, Haddad & Prado 2005, Wells, 2007, Haddad et al., 2013, Hocking & Babbitt 2014

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