

**SUPPLEMENTAL INFORMATION**

**DIVERSITY OF AMPHIBIANS AND REPTILES OF  
THE PARQUE SESC SERRA AZUL:  
A TRANSITION ZONE IN MIDWESTERN BRAZIL**

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**TABLE S1.** Reference and geographical location of the 28 areas used in the cluster analysis. A: amphibian data, R: reptile data.

Id	Abbreviation	Ecoregion	Coordinates		Group	References
1	PSSA	Cerrado	14.4986°S	55.7342°W	A/R	This work
2	Cerrado1	Cerrado	16.6589°S	48.6081°W	A/R	Morais et al. (2012)
3	Beni1	Beni Savanna	14.8428°S	64.8888°W	A/R	Rivas et al. (2023)
4	HumChaco1	Humid Chaco	21.6675°S	57.9012°W	A/R	Souza et al. (2010)
5	DryChaco1	Dry Chaco	25.1188°S	62.0703°W	A/R	Kacoliris et al. (2006)
6	ParanaForest1	Alto Paraná Atlantic Forest	22.6554°S	56.0169°W	A/R	Martínez et al. (2016)
7	Cerrado2	Cerrado	17.6086°S	54.8278°W	A/R	Silva Jr. et al. (2009)
8	Cerrado3	Cerrado	17.7695°S	48.6584°W	A/R	Ramalho et al. (2019)
9	Cerrado4	Cerrado	22.5899°S	50.3831°W	A/R	Araujo and Almeida-Santos (2011)
10	Cerrado5	Cerrado	18.8056°S	52.3769°W	A/R	Ramalho et al. (2014)
11	Chiquitano1	Chiquitano Dry Forest	14.639°S	60.9499°W	A/R	Watling et al. (2009)
12	MoistForest1	Madeira-Tapajós Moist Forest	10.1563°S	59.4407°W	A/R	São Pedro et al. (2009)
13	Beni2	Beni Savanna	14.8638°S	66.3376°W	A/R	Eversole et al. (2021)
14	DryForest1	Mato Grosso Tropical Dry Forest	13.265°S	54.8416°W	A/R	Rossi et al. (2023)
15	Chiquitano2	Chiquitano Dry Forest	16.3322°S	62.0023°W	A	Schulze et al. (2009)
16	Pantanal1	Pantanal	19.2716°S	57.636°W	A	Piva et al. (2020)
17	Pantanal2	Pantanal	16.4664°S	58.125°W	A	Pansonato et al. (2011)
18	Pantanal3	Pantanal	16.6017°S	57.1033°W	A	Dorado-Rodrigues et al. (2015)
19	Pantanal4	Pantanal	17.7904°S	57.3749°W	A/R	Jesus and Lima (2003)
20	Pantanal5	Pantanal	19.5998°S	56.2348°W	A/R	Ferreira et al. (2006)
21	MoistForest2	Madeira-Tapajós Moist Forest	12.1169°S	61.85°W	R	Ferrão et al. (2012)
22	MoistForest3	Madeira-Tapajós Moist Forest	9.85469°S	58.2492°W	A	Noronha et al. (2015)
23	HumChaco2	Humid Chaco	25.5003°S	58.0003°W	A/R	Álvarez et al. (2009)
24	HumChaco3	Humid Chaco	26.0378°S	59.1572°W	A/R	Pesci et al. (2018)
25	ParanaForest2	Alto Paraná Atlantic Forest	24.1336°S	55.5168°W	A/R	Cacciali et al. (2015)
26	DryChaco2	Dry Chaco	26.1271°S	62.5116°W	A/R	Pérez-Iglesias et al. (2017)
27	DryForest2	Mato Grosso Tropical Dry Forest	9.45028°S	55.8336°W	A/R	Rodrigues et al. (2015)
28	Chiquitano3	Chiquitano Dry Forest	15.1294°S	58.963°W	A/R	Strüssmann (2003)

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**TABLE S2.** List of amphibian species sampled in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil. Values indicate the number of records according to each sampling method.

Species	Common Name	Active Search	Trap sets	Occasional record	Voucher UFMT-A
ANURA					
Bufonidae					
<i>Rhinella diptycha</i>	Cururu Toad	45	18	20	19724
<i>Rhinella major</i>	No common name	13			19719
<i>Rhinella stanlaii</i>	No common name			1	
Dendrobatidae					
<i>Ameerega braccata</i>	No common name			2	19797
Hylidae					
<i>Boana albopunctata</i>	Spotted Treefrog	12		5	19704
<i>Boana raniceps</i>	Chaco Treefrog	76	1	33	19716
<i>Dendropsophus elianae</i>	No common name	6			19802
<i>Dendropsophus melanargyreus</i>	Interior Treefrog	99	1		19783
<i>Dendropsophus minutus</i>	Lesser Treefrog	5			
<i>Dendropsophus nanus</i>	Dwarf Treefrog	15		10	19793
<i>Osteocephalus taurinus</i>	Manaus Slender-legged Treefrog	6		1	19680
<i>Pithecopus</i> cf. <i>araguaius</i>	No common name	27		1	19779
<i>Scinax fuscomarginatus</i>	Brown Bordered Snouted Treefrog	3		1	19796
<i>Scinax fuscovarius</i>	Snouted Treefrog	165	20	12	19701
<i>Scinax nasicus</i>	Lesser Snouted Treefrog	6		2	19746
<i>Trachycephalus typhonius</i>	Lost Treefrog	10	1	7	19662
Leptodactylidae					
<i>Adenomera</i> aff. <i>hylaedactyla</i>	No common name	67	181	41	19784
<i>Leptodactylus brevipes</i>	No common name	13		2	19773
<i>Leptodactylus elenae</i>	Marbled White-lipped Frog	1	5		19744
<i>Leptodactylus fuscus</i>	Fuscous Foam Frog	41	7	8	19661
<i>Leptodactylus labyrinthicus</i>	Pepper Foam Frog	69	8	11	19734

Species	Common Name	Active Search	Trap sets	Occasional record	Voucher UFMT-A
<i>Leptodactylus macrosternum</i>	Miranda's White-lipped Frog	145	1	56	19693
<i>Leptodactylus mystaceus</i>	Basin White-lipped Frog	9	4	2	19760
<i>Leptodactylus syphax</i>	Whistling Foam Frog	9	12	2	19695
<i>Physalaemus albonotatus</i>	Menwig Frog	91	74	29	19800
<i>Physalaemus centralis</i>	Central Dwarf Frog	11	11	3	19755
<i>Physalaemus cuvieri</i>	Barker Frog	9	12	2	19788
<i>Physalaemus nattereri</i>	Cuyaba Dwarf Frog	210	3	2	19733
<i>Pseudopaludicola ameghini</i>	Dwarf Swamp Frog	10		1	19768
<i>Pseudopaludicola motorzinho</i>	No common name	1			
<i>Pseudopaludicola mystacalis</i>	Cope's Swamp Frog	7		8	19763
Microhylidae					
<i>Chiasmocleis albopunctata</i>	White-spotted Humming Frog	7		5	19795
<i>Dermatonotus muelleri</i>	Mueller's Termite Frog	14	6	7	19741
<i>Elachistocleis magna</i>	No common name	30	6	3	19777
Strabomantidae					
<i>Oreobates heterodactylus</i>	Caceres Robber Frog	2	9	4	19776
<i>Pristimantis dundeei</i>	No common name	54	23	26	19753

**TABLE S3.** List of reptile species sampled in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil. Values indicate the number of records according to each sampling method.

Species	Common Name	Active Search	Trap sets	Occasional record	Voucher UFMT-R
TESTUDINES					
Chelidae					
<i>Mesoclemmys vanderhaegei</i>	Vanderhaege's Toadhead Turtle	1	1		
<i>Phrynops geoffroanus</i>	Geoffroy's Toadhead Turtle			1	
Testudinidae					
<i>Chelonoidis carbonarius</i>	Red-footed Tortoise	1		11	
CROCODYLIA					
Alligatoridae					
<i>Caiman crocodilus</i>	Spectacled Caiman	18		10	
<i>Paleosuchus palpebrosus</i>	Dwarf Caiman	5		9	
SQUAMATA					
Suborder Amphisbaenia					
Amphisbaenidae					
<i>Amphisbaena alba</i>	Red Wormlizard			1	12903
Suborder Sauria					
Gekkonidae					
<i>Hemidactylus mabouia</i>	House Gecko	10		13	12852
Gymnophthalmidae					
<i>Cercosaura olivacea</i>	Olive Tegu			5	12865
<i>Cercosaura parkeri</i>	Parker's Many-fingered Teiid			1	12869
<i>Colobosaura modesta</i>	Bahia Colobosaura	4	9	4	12877
<i>Micrablepharus maximiliani</i>	No common name		10	4	12868
Hoplocercidae					
<i>Hoplocercus spinosus</i>	Spiny Weapontail		22		12880
Iguanidae					
<i>Iguana iguana</i>	Green Iguana			1	
Phyllodactylidae					
<i>Phyllopezus przewalskii</i>	Przewalsky's Gecko			1	
Polychrotidae					
<i>Polychrus acutirostris</i>	Brazilian Bush Anole	3		4	12901
Scincidae					
<i>Copeoglossum nigropunctatum</i>	Black-Spotted Skink	1		6	12912
<i>Notomabuya frenata</i>	Cope's Mabuya	1	2	5	12856

Species	Common Name	Active Search	Trap sets	Occasional record	Voucher UFMT-R
Sphaerodactylidae					
<i>Gonatodes humeralis</i>	Trinidad Gecko		3	6	12876
Teiidae					
<i>Ameiva ameiva</i>	Giant Ameiva	48		31	12886
<i>Ameivula ocellifera</i>	Spix's Whiptail			1	
<i>Salvator merianae</i>	Argentine Giant Tegu			5	
<i>Tupinambis matipu</i>	No common name	1		3	
Tropiduridae					
<i>Tropidurus lagunablanca</i>	No common name	4	5	15	12883
<i>Tropidurus torquatus</i>	Amazon Lava Lizard			2	
Suborder Serpentes					
Boidae					
<i>Boa constrictor</i>	Common Boa			8	
<i>Corallus hortulana</i>	Amazon Tree Boa			1	
<i>Epicrates crassus</i>	Paraguayan Rainbow Boa			4	12897
<i>Eunectes murinus</i>	Green Anaconda			1	
Colubridae					
<i>Chironius flavolineatus</i>	Boettger's Sipo			2	12900
<i>Chironius dixonii</i>	Chaco Whipsnake			1	
<i>Drymarchon corais</i>	Indigo Snake		1	4	
<i>Leptophis marginatus</i>	Southern Parrot Snake			1	12884
<i>Mastigodryas boddaerti</i>	Boddaert's Tropical Racer	1	1	7	12887
<i>Oxybelis aeneus</i>	Brown Vinesnake			1	
<i>Spilotes pullatus</i>	Chicken Snake			9	12895
<i>Spilotes sulphureus</i>	Amazon Puffing Snake			1	
<i>Tantilla melanocephala</i>	Black-headed Snake		1	1	12838
Dipsadidae					
<i>Adelphostigma occipitalis</i>	Spotted Ground-Snake			4	12889
<i>Apostolepis sanctaeritae</i>	Tocantins Blackhead			1	12844
<i>Apostolepis</i> sp. 1 (gr. <i>nigroterminata</i> )	No common name		1		12839
<i>Apostolepis</i> sp. 2 (gr. <i>nigroterminata</i> )	No common name		1		12842
<i>Atractus albuquerquei</i>	Albuquerque Ground Snake			1	12913
<i>Dipsas</i> sp. (cf. <i>mikanii</i> )	No common name			1	
<i>Dryophylax</i> sp. (cf. <i>chaquensis</i> )	No common name			1	
<i>Erythrolamprus aesculapii</i>	South American False Coral Snake			1	12890
<i>Erythrolamprus almadensis</i>	Almaden Ground Snake			4	12906
<i>Erythrolamprus poecilogyrus</i>	No common name	1	2	4	12921

Species	Common Name	Active Search	Trap sets	Occasional record	Voucher UFMT-R
<i>Erythrolamprus reginae</i>	Royal Ground Snake			2	12899
<i>Hydrodynastes gigas</i>	False Water Cobra			1	
<i>Leptodeira annulata</i>	Banded Cat-eyed Snake	5	1	9	12918
<i>Oxyrhopus rhombifer</i>	Amazon False Coral Snake			1	12914
<i>Oxyrhopus trigeminus</i>	Brazilian False Coral Snake	1		3	12919
<i>Phalotris nasutus</i>	Chaco Burrowing Snake	1			12840
<i>Philodryas nattereri</i>	Paraguay Green Racer			1	
<i>Philodryas olfersii</i>	Lichtenstein's Green Racer			2	12885
<i>Phimophis guerini</i>	Argentine Pampas Snake	1			12917
<i>Pseudoboa nigra</i>	Black False Boa	3	1	3	12847
<i>Xenodon merremii</i>	Wagler's Snake		2		12911
Leptotyphlopidae					
<i>Epictia tenella</i>	Guyana Blind Snake			5	12843
<i>Trilepida brasiliensis</i>	Brazilian Blind Snake		2	1	12845
Typhlopidae					
<i>Amerotyphlops brongersmianus</i>	Brongersma's Worm Snake		7		12837
Viperidae					
<i>Bothrops moojeni</i>	Brazilian Lancehead	2	2	15	12882
<i>Crotalus durissus</i>	Cascabel Rattlesnake	1		8	12755

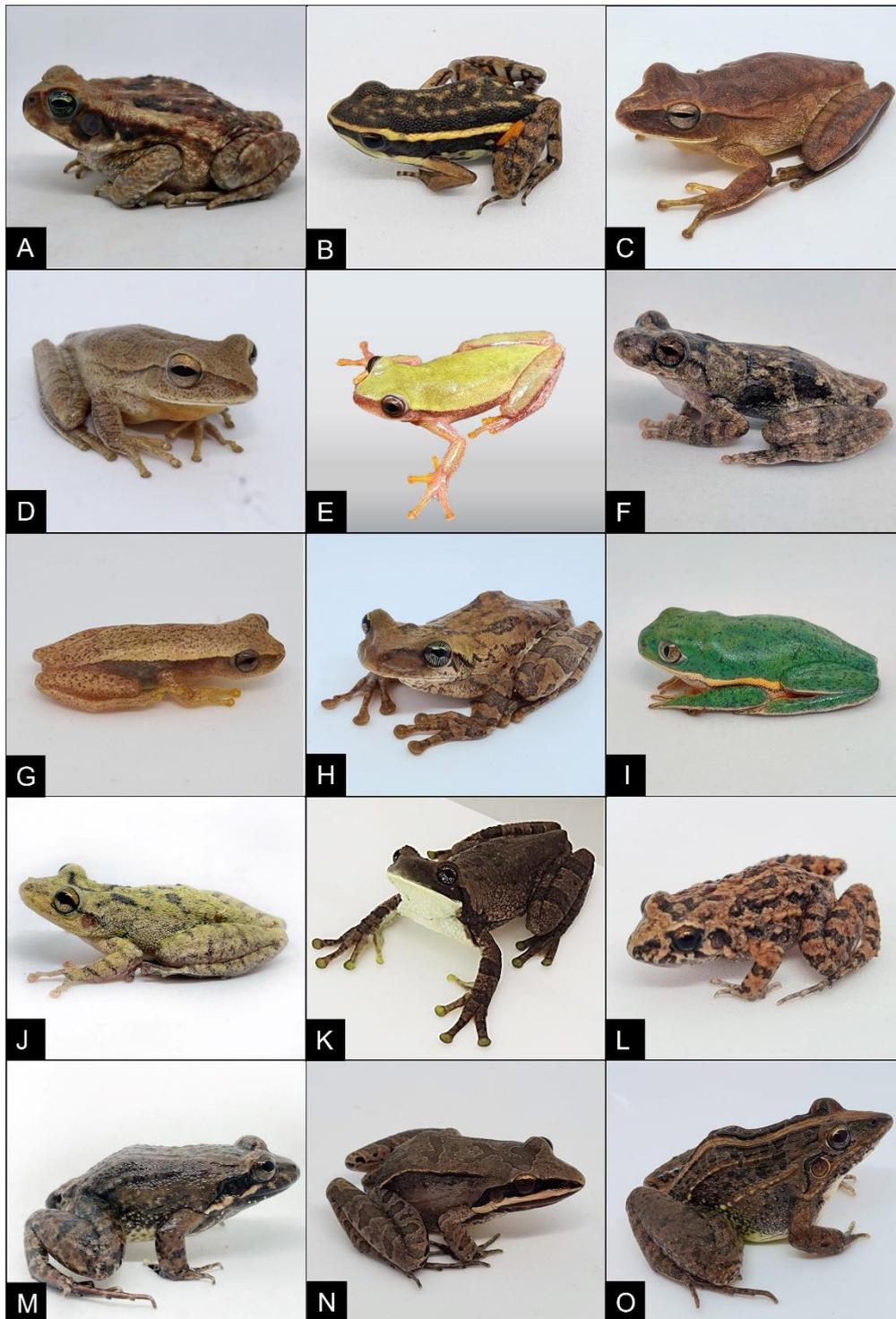
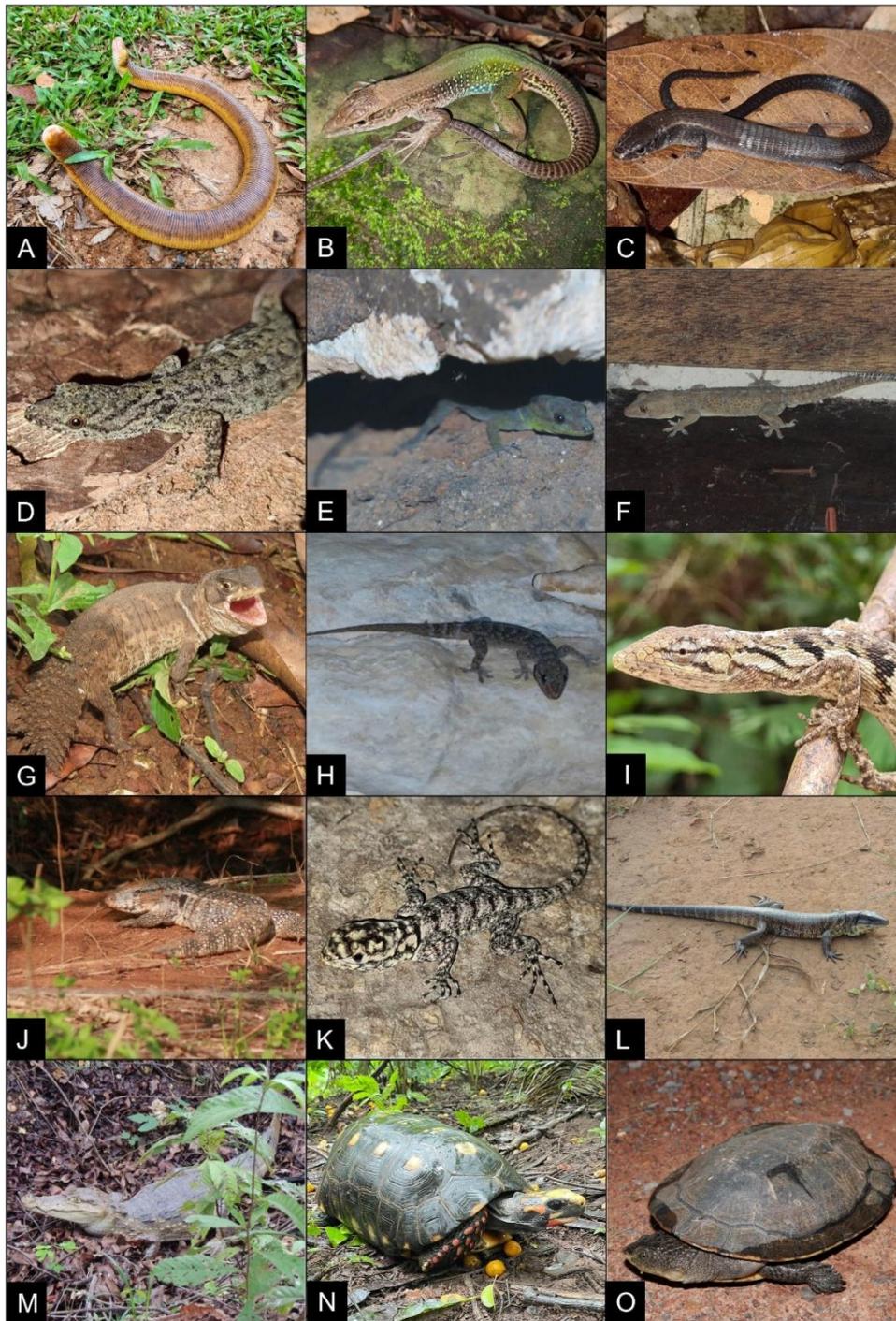


FIGURE S1. Some amphibian species recorded in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil: A) *Rhinella diptycha*, B) *Ameerega braccata*, C) *Boana albopunctata*, D) *B. raniceps*, E) *Dendropsophus elianae*, F) *D. melanargyreus*, G) *D. nanus*, H) *Osteocephalus taurinus*, I) *Pithecopus* cf. *araguaius*, J) *Scinax fucovarius*, K) *Trachycephalus typhonius*, L) *Adenomera* aff. *hylaedactyla*, M) *Leptodactylus brevipes*, N) *L. elenae*, O) *L. fuscus*.



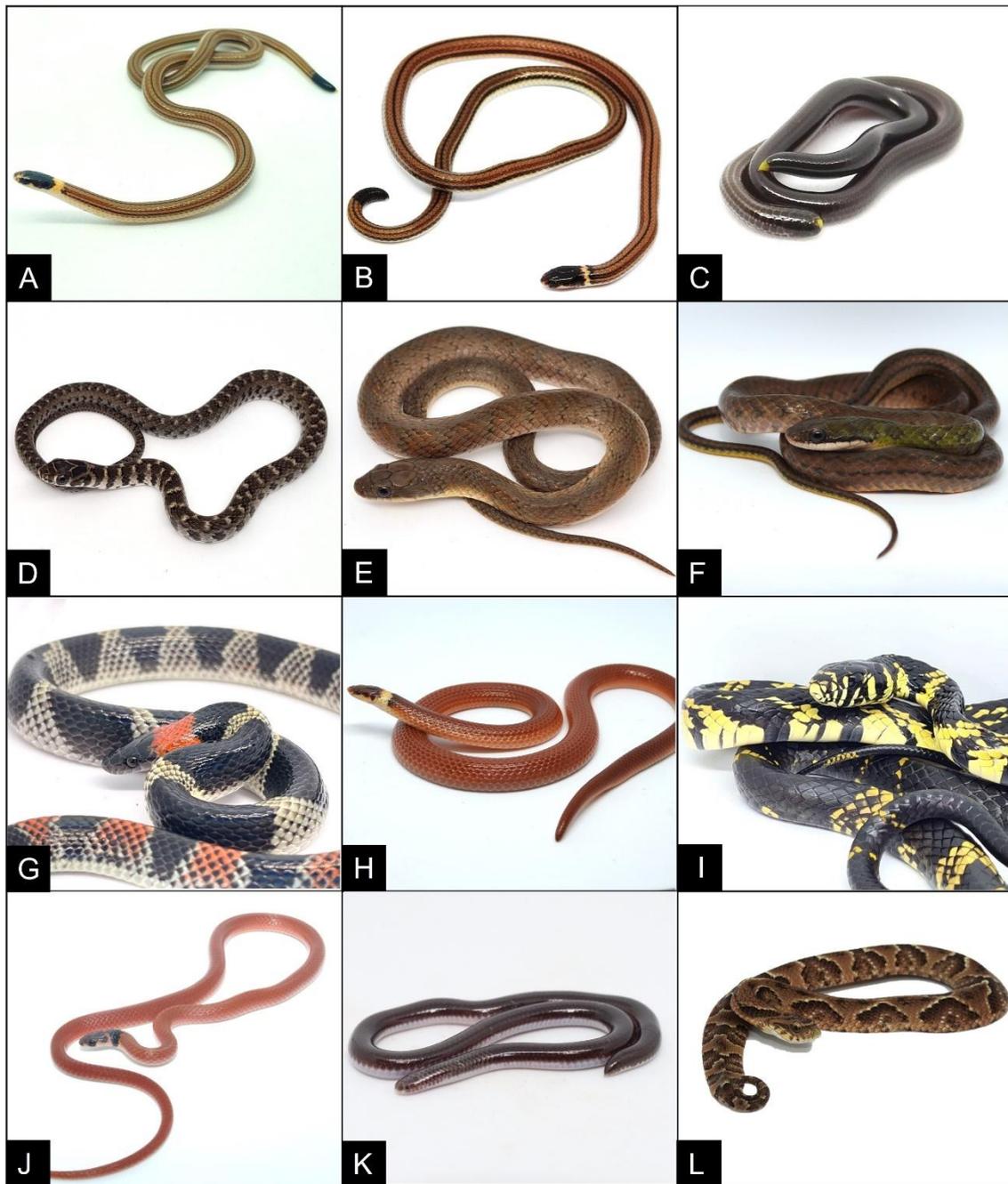
FIGURE S2. Some amphibian species recorded in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil: A) *Leptodactylus labyrinthicus*, B) *L. macrosternum*, C) *L. syphax*, D) *Physalaemus centralis*, E) *P. albonotatus*, F) *P. cuvieri*, G) *P. nattereri*, H) *Pseudopaludicola ameghini*, I) *P. motorzinho*, J) *P. mystacalis*, K) *Chiasmocleis albopunctata*, L) *Dermatonotus muelleri*, M) *Elachistocleis magna*, N) *Oreobates heterodactylus*, O) *Pristimantis dundeei*.



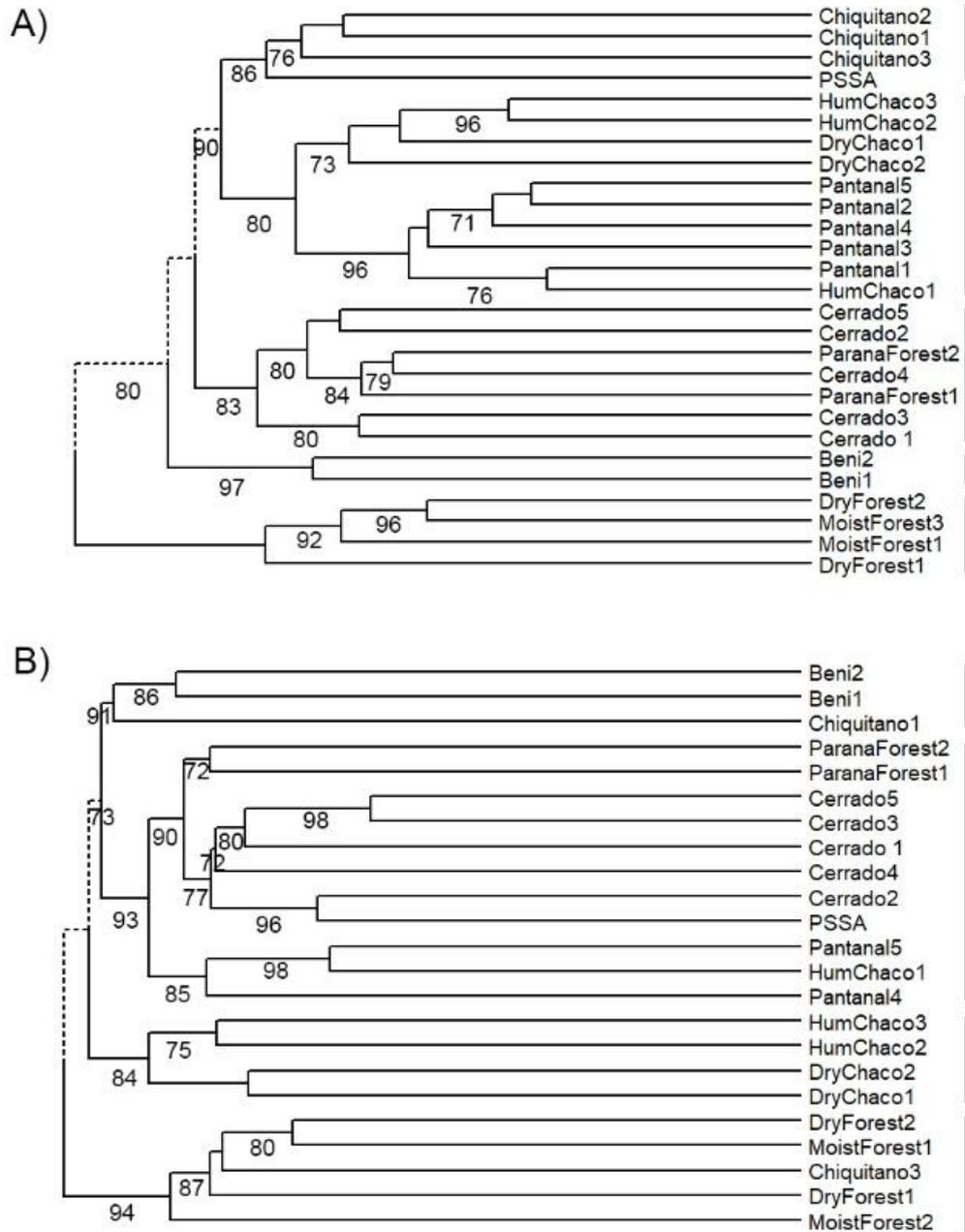
**FIGURE S3.** Some reptile species recorded in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil: A) *Amphisbaena alba*, B) *Ameiva ameiva*, C) *Colobosaura modesta*, D) *Gonatodes humeralis* (female), E) *G. humeralis* (male), F) *Hemidactylus mabouia*, G) *Hoplocercus spinosus*, H) *Phyllopezus przewalskii*, I) *Polychrus acutirostris*, J) *Salvator merrianae*, K) *Tropidurus lagunablanca*, L) *Tupinambis matipu*, M) *Caiman crocodilus*, N) *Chelonoidis carbonarius*, O) *Mesoclemmys vanderhaegei*.



**FIGURE S4** Some reptile species recorded in the Parque Sesc Serra Azul, Rosário Oeste, Mato Grosso, Brazil: A) *Adelphostigma occipitalis*, B) *Amerotyphlops brongersmianus*, C) *Apostolepis sanctaeritae*, D) *Atractus albuquerquei*, E) *Boa constrictor*, F) *Bothrops moojeni*, G) *Crotalus durissus*, H) *Drymarchon corais*, I) *Epicrates crassus*, J) *Erythrolamprus aesculapii*, K) *Leptodeira annulata*, L) *Mastigodryas boddaerti*, M) *Oxyrhopus trigeminus*, N) *Pseudoboa nigra*, O) *Phimophis guerini*.



**FIGURE S5** Some reptile species recorded in the Parque SESC Serra Azul, Rosário Oeste, Mato Grosso, Brazil: A) *Apostolepis* sp.1, B) *Apostolepis* sp.2, C) *Epictia tenella*, D) *Erythrolamprus almadensis*, E) *E. poecilogyrus*, F) *E. reginae*, G) *Oxyrhopus rhombifer*, H) *Phalotris nasutus*, I) *Spilotes pullatus*, J) *Tantilla melanocephala*, K) *Trilepida brasiliensis*, L) *Xenodon merremii*.



**FIGURE S6.** Dissimilarity dendrogram generated by UPGMA from A) amphibian and B) reptile species composition recorded in 28 areas of central South America. Vertical bars indicate clusters. Values around nodes are unbiased bootstrap. Nodes lacking values have bootstrap values < 70. Abbreviation id is found in Table S1.