

Supplementary Material

A taxonomic revision of *Scinax nebulosus* (Anura: Hylidae) with the revalidation of *Scinax cynocephalus* and the description of three new species DOI: 10.25225/jvb.26059

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Table S1. Specimens of the *Scinax nebulosus* complex and closely related taxa included in the molecular analyses, with their respective localities, voucher numbers, and GenBank accession numbers.

Species	Locality	Voucher	Genbank nº	Source
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	CAUC07 (URCA-H:12586)	PZ840065	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	URCA2019 (URCA-H:12481)	PZ840076	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	URCA2020 (URCA-H:12482)	PZ840077	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	URCA2027 (URCA-H:12591)	PZ840078	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	URCA2037 (URCA-H:12601)	PZ840081	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Caucaia, Ceará, Brazil	URCA2038 (URCA-H:12602)	PZ840071	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	RHCRA02	PZ840063	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	URCA1990 (URCA-H:11652)	PZ840073	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	URCA1991 (URCA-H:11653)	PZ840074	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	URCA1999 (URCA-H:11878)	PZ840070	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	URCA2012 (URCA-H:12260)	PZ840069	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Crato, Ceará, Brazil	URCA2015 (URCA-H:12263)	PZ840075	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Ipú, Ceará, Brazil	IPURH02 (URCA-H:12268)	PZ840064	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Ipú, Ceará, Brazil	URCA2080 (URCA-H:12272)	PZ840080	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Ipú, Ceará, Brazil	URCA2089 (URCA-H:12281)	PZ840072	this study
<i>Scinax divae</i> sp. nov. (L1 East)	Campo Alegre, Alagoas, Brazil	Sne03093AL	MK411428	De Freitas et al. 2022

<i>Scinax divae</i> sp. nov. (L1 East)	Campo Alegre, Alagoas, Brazil	Sne08993AL	MK411429	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Limoeiro de Anadia, Alagoas, Brazil	MUFAL12900	OP022109	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL11426/2	OP022030	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL11426/3	OP022031	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL11472/2	OP022035	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL11473/1	OP022036	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL11473/2	OP022037	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Maceió, Alagoas, Brazil	MUFAL12493	OP022102	Dubeux et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	São Miguel dos Campos, Alagoas, Brazil	MNRJ36696	OQ934755	Araujo-Vieira et al. 2023
<i>Scinax divae</i> sp. nov. (L1 East)	Ibiapina, Ceará, Brazil	CE581	EU201096	Fouquet et al. 2007
<i>Scinax divae</i> sp. nov. (L1 East)	Ibiapina, Ceará, Brazil	CE5B	KDQF01002162	Vacher et al. 2020
<i>Scinax divae</i> sp. nov. (L1 East)	São Benedito, Ceará, Brazil	ACCCE616	KDQF01000013	Vacher et al. 2020
<i>Scinax divae</i> sp. nov. (L1 East)	Timbaúba, Pernambuco, Brazil	ZUFRJ 8786	EU201095	Fouquet et al. 2007
<i>Scinax divae</i> sp. nov. (L1 East)	Timbaúba, Pernambuco, Brazil	ZUFRJ 7854	KDQF01000012	Vacher et al. 2020
<i>Scinax divae</i> sp. nov. (L1 East)	Macaiba, Rio Grande do Norte, Brazil	Snegr1885	MK411437	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Nisia Floresta, Rio Grande do Norte, Brazil	AAG-UFU 6251	MK503366	Costa 2019 (unpublished)
<i>Scinax divae</i> sp. nov. (L1 East)	Parnamirim, Rio Grande do Norte, Brazil	Snegr1870	MK411434	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Parnamirim, Rio Grande do Norte, Brazil	Snegr1871	MK411435	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Parnamirim, Rio Grande do Norte, Brazil	Snegr1881	MK411436	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	Vila Flor, Rio Grande do Norte	Snegr2930	MK411440	De Freitas et al. 2022
<i>Scinax divae</i> sp. nov. (L1 East)	not provide	Snegr2050	MK411438	De Freitas et al. 2022
<i>Scinax nebulosus</i> (L2)	Bragança, Pará, Brazil	CHUFCA11622	PZ840097	this study
<i>Scinax nebulosus</i> (L2)	Bragança, Pará, Brazil	CHUFCA11621	PZ840099	this study
<i>Scinax nebulosus</i> (L2)	Parauapebas, Pará, Brazil	URCA2815 (UFRA_R11)	PZ840085	this study

<i>Scinax nebulosus</i> (L2)	Parauapebas, Pará, Brazil	URCA2824 (UFRA_R23)	PZ840086	this study
<i>Scinax nebulosus</i> (L2)	Parauapebas, Pará, Brazil	URCA2832 (UFRA_R31)	PZ840087	this study
<i>Scinax nebulosus</i> (L2)	Parauapebas, Pará, Brazil	URCA2840 (UFRA_R39)	PZ840088	this study
<i>Scinax nebulosus</i> (L2)	Primavera, Pará, Brazil	MVP33	PZ840067	this study
<i>Scinax nebulosus</i> (L2)	Ananindeua, Pará, Brazil	PS337	OQ934641	Araujo-Vieira et al. 2023
<i>Scinax nebulosus</i> (L2)	Belém, Pará, Brazil	MPEG31631	MK503362	Costa 2019 (unpublished)
<i>Scinax nebulosus</i> (L2)	Belém, Pará, Brazil	MPEG31632	MK503363	Costa 2019 (unpublished)
<i>Scinax nebulosus</i> (L2)	Belém, Pará, Brazil	MPEG31633	MK503364	Costa 2019 (unpublished)
<i>Scinax nebulosus</i> (L2)	Belém, Pará, Brazil	MPEG31636	MK503365	Costa 2019 (unpublished)
<i>Scinax costrictus</i> (L3)	Acreuna, Goiás, Brazil	ZUEC24588	MK503378	Costa 2019 (unpublished)
<i>Scinax costrictus</i> (L3)	Goianapolis, Goiás, Brazil	ZUFG3407	OQ934446	Araujo-Vieira et al. 2023
<i>Scinax costrictus</i> (L3)	Palmeiras de Goiás, Goiás, Brazil	ZUFG3408	OQ934445	Araujo-Vieira et al. 2023
<i>Scinax constrictus</i> (L3)	Palmeiras de Goiás, Goiás, Brazil	ZUEC24593	MK503379	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Palmeiras de Goiás, Goiás, Brazil	ZUEC24594	MK503380	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Palmeiras de Goiás, Goiás, Brazil	AAG-UFU 3385	MK503381	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Paranaiguara, Goiás, Brazil	SMRP 471.1	MK503376	Costa 2019 (unpublished)
<i>Scinax costrictus</i> (L3)	Paranaiguara, Goiás, Brazil	SMRP 471.2	MK503377	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Pirenópolis, Goiás, Brazil	Snegr767	MK411432	De Freitas et al. 2022
<i>Scinax constrictus</i> (L3)	Pirenópolis, Goiás, Brazil	Snegr768	MK411433	De Freitas et al. 2022
<i>Scinax constrictus</i> (L3)	Água Boa, Mato Grosso, Brazil	PHV2480(MTR)	OQ934447	Araujo-Vieira et al. 2023
<i>Scinax constrictus</i> (L3)	Água Boa, Mato Grosso, Brazil	PHV2481(MTR)	OQ934448	Araujo-Vieira et al. 2023
<i>Scinax constrictus</i> (L3)	Barra do Garças, Mato Grosso, Brazil	MZUSP152308	OQ934449	Araujo-Vieira et al. 2023
<i>Scinax constrictus</i> (L3)	Barra do Garças, Mato Grosso, Brazil	PHV2754(MTR)	OQ934450	Araujo-Vieira et al. 2023
<i>Scinax constrictus</i> (L3)	Lajeado, Tocantins, Brazil	LAJ104	KDQF01002717	Vacher et al. 2020

<i>Scinax constrictus</i> (L3)	Palmas, Tocantins, Brazil	AAG-UFU 2772	MK503374	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Palmas, Tocantins, Brazil	AAG-UFU 2774	MK503375	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Porto Nacional, Tocantins, Brazil	ZUEC13496	MK503372	Costa 2019 (unpublished)
<i>Scinax constrictus</i> (L3)	Porto Nacional, Tocantins, Brazil	ZUEC13497	MK503373	Costa 2019 (unpublished)
<i>Scinax cynocephalus</i> (L5)	Trombetas, Pará, Brazil	CTGA1678	PZ840061	this study
<i>Scinax cynocephalus</i> (L5)	Caracará, Roraima, Brazil	CTGA6117	PZ840060	this study
<i>Scinax cynocephalus</i> (L5)	St Elie, French Guiana	AF0601 (MNHN-RA-2025.0039)	PZ840068	this study
<i>Scinax cynocephalus</i> (L5)	Lac Pali, Kaw, French Guiana	AG318	KDQF01001540	Vacher et al. 2020
<i>Scinax cynocephalus</i> (L5)	Laussat Road 8/pk6, French Guiana	126bm	EF217514	Fouquet et al. 2007
<i>Scinax cynocephalus</i> (L5)	Mana, French Guiana	258mc	EF217513	Fouquet et al. 2007
<i>Scinax cynocephalus</i> (L5)	Regina Road, French Guiana		AF467262	Salducci et al. 2002
<i>Scinax cynocephalus</i> (L5)	Bamboo landing, Guyana	SMNS12524	KDQF01004242	Vacher et al. 2020
<i>Scinax cynocephalus</i> (L5)	Iwokrama, Guyana	MTD47705	KDQF01003029	Vacher et al. 2020
<i>Scinax cynocephalus</i> (L5)	Mabaruma, Guyana	394BPN	EU201094	Fouquet et al. 2007
<i>Scinax cynocephalus</i> (L5)	Upper Demerara-Berbice, Guyana	AMNHA141126	OQ934751	Araujo-Vieira et al. 2023
<i>Scinax cynocephalus</i> (L5)	Coesevijne savanne, Surinam	NZCS78	KDQF01003787	Vacher et al. 2020
<i>Scinax cynocephalus</i> (L5)	Sipaliwini, Surinam	AF2145	KDQF01000860	Vacher et al. 2020
<i>Scinax cynocephalus</i> (L5)	Sipaliwini, Surinam	AF2174	KDQF01000871	Vacher et al. 2020
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2101 (URCA-H:12730)	PZ840090	this study
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2102 (URCA-H:12731)	PZ840095	this study
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2103 (URCA-H:12732)	PZ840091	this study
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2104 (URCA-H:12733)	PZ840094	this study
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2106 (URCA-H:12735)	PZ840092	this study
<i>Scinax galacticus</i> sp. nov. (L6)	Santarém, Pará, Brazil	URCA2108 (URCA-H:12737)	PZ840093	this study

<i>Scinax galacticus</i> sp. nov. (L6)	Serra do Navio, Amapá, Brazil	MTR13838	KDQF01003275	Vacher et al. 2020
<i>Scinax galacticus</i> sp. nov. (L6)	Mina Palito, Itaituba, Pará, Brazil	MPEG36833	KDQF01003009	Vacher et al. 2020
<i>Scinax galacticus</i> sp. nov. (L6)	UHE Belo Monte, Vitoria do Xingú, Pará, Brazil	BM079	KDQF01001822	Vacher et al. 2020
<i>Scinax galacticus</i> sp. nov. (L6)	UHE Belo Monte, Vitoria do Xingú, Pará, Brazil	BM352	KDQF01001847	Vacher et al. 2020
<i>Scinax guapore</i> sp. nov. (L7)	Vilhena, Rondônia, Brazil	LTJV10	PZ840062	this study
<i>Scinax guapore</i> sp. nov. (L7)	Concepcion, Bolívia	AS0151	JF790036	Jansen et al. 2011
<i>Scinax guapore</i> sp. nov. (L7)	Concepcion, Bolívia	MJ1261	JF790037	Jansen et al. 2011
<i>Scinax guapore</i> sp. nov. (L7)	Ñuflo de Chaves, Bolívia	AS0148	JF790035	Jansen et al. 2011
<i>Scinax guapore</i> sp. nov. (L7)	Ñuflo de Chaves, Bolívia	MJ1290	JF790038	Jansen et al. 2011
<i>Scinax guapore</i> sp. nov. (L7)	Mato Grosso, Brazil	Sne05536MT	MK411430	De Freitas et al. 2022
<i>Scinax guapore</i> sp. nov. (L7)	Mato Grosso, Brazil	Sne5611MT	MK411431	De Freitas et al. 2022
<i>Scinax guapore</i> sp. nov. (L7)	Corumbá, Mato Grosso do Sul, Brazil	AB418	OQ934752	Araujo-Vieira et al. 2023
<i>Scinax guapore</i> sp. nov. (L7)	Pacaas Novos, Rondônia, Brazil	MTR25655	KDQF01003626	Vacher et al. 2020
<i>Scinax</i> sp. (L4)	São Pedro da Água Branca, Maranhão, Brazil	URCA2400	PZ840089	this study
<i>Scinax</i> sp. (L4)	Road Vanderlândia to Babaçulandia, Tocantins, Brazil	CFBH08171	OQ934753	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. (L4)	São Pedro da Água Branca, Maranhão, Brazil	SMRP 378.3	MK503371	Costa 2019
L1 West	Barreirinhas, Maranhão, Brazil	CHUFCA11614	PZ840100	this study
L1 West	Barreirinhas, Maranhão, Brazil	CHUFCA11613	PZ840101	this study
L1 West	Bom Jardim, Maranhão, Brazil	CHUFCA11617	PZ840102	this study
L1 West	Bom Jardim, Maranhão, Brazil	CHUFCA11618	PZ840098	this study
L1 West	Ribeiro Gonçalves, Piauí, Brazil	RG26 (URCA-H:12640)	PZ840066	this study
L1 West	Ribeiro Gonçalves, Piauí, Brazil	URCA2053 (URCA-H:12618)	PZ840082	this study
L1 West	Ribeiro Gonçalves, Piauí, Brazil	URCA2057 (URCA-H:12622)	PZ840079	this study
L1 West	Ribeiro Gonçalves, Piauí, Brazil	URCA2062 (URCA-H:12627)	PZ840083	this study

L1 West	Ribeiro Gonçalves, Piauí, Brazil	URCA2074 (URCA-H:12642)	PZ840084	this study
L1 West	Açailândia, Maranhão, Brazil	CFBH15626	OQ934754	Araujo-Vieira et al. 2023
L1 West	Balsas, Maranhão, Brazil	MNRJ43945	OQ934756	Araujo-Vieira et al. 2023
L1 West	Carolina, Maranhão, Brazil	AAG-UFU 3262	MK503369	Costa 2019 (unpublished)
L1 West	Parque Estadual do Mirador, Maranhão, Brazil	Sne32MA	MK411426	De Freitas et al. 2022
L1 West	Parque Estadual do Mirador, Maranhão, Brazil	Sne33MA	MK411427	De Freitas et al. 2022
L1 West	Baixa Grande do Ribeiro, Piauí, Brazil	CFBHT10951	KJ004190	Brusquetti et al. 2014
L1 West	Mateiros, Tocantins, Brazil	AAG-UFU 2100	MK503367	Costa 2019 (unpublished)
L1 West	Mateiros, Tocantins, Brazil	AAG-UFU 2066	MK503368	Costa 2019 (unpublished)
<i>Scinax garbei</i>	Serra do Divisor, Acre, Brazil	MTR28237	OQ934539	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Serra do Divisor, Acre, Brazil	MTR28238	OQ934540	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	35 km SW Iquitos, Peru	NMP71266	OQ934541	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Caqueta, San Vicente del Caguan, Colombia	PAG1013	OQ934542	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Chimborazo, Ecuador	WED54071	AY326033	Darst & Cannatella 2004
<i>Scinax garbei</i>	Morona Santiago, Napimias, Ecuador	QCAZ46403	OQ934567	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Napo, Reserva Ecologica Yachana, Ecuador	QCAZ48844	OQ934570	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Orellana, Ecuador	QCAZ43755	OQ934554	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Reserva Limoncocha, Sucumbios, Ecuador	QCAZ43098	OQ934552	Araujo-Vieira et al. 2023
<i>Scinax garbei</i>	Tena, Ecuador	TWQ008	ON907637	Quilumbaquin et al. 2023
<i>Scinax garbei</i>	Zamora Chinchipe, Near Limon, Ecuador	QCAZ47061	OQ934568	Araujo-Vieira et al. 2023
<i>Scinax proboscideus</i>	Memora, Amapá, Brazil	AF2990	KDQF01001178	Vacher et al. 2020
<i>Scinax proboscideus</i>	Aratai, French Guyana	AF1384	KDQF01000513	Vacher et al. 2020
<i>Scinax proboscideus</i>	Atachi Bakka, French Guyana	AG423	KDQF01001594	Vacher et al. 2020
<i>Scinax proboscideus</i>	Chutes Gregoire, French Guyana	AF0859	KDQF01000285	Vacher et al. 2020

<i>Scinax proboscideus</i>	Kaw, French Guyana	h2	EF217511	Fouquet et al. 2007
<i>Scinax proboscideus</i>	Kaw, French Guyana	34mc	EF376070	Salducci et al. 2005
<i>Scinax proboscideus</i>	Nouragues, Camp Inselberg, French Guyana	AF1484	KDQF01000555	Vacher et al. 2020
<i>Scinax proboscideus</i>	St Pierre, French Guyana	AG384	KDQF01001573	Vacher et al. 2020
<i>Scinax proboscideus</i>	Potaro-Siparuni, Iwokrama, Guyana	UGCSBDHA589	OQ934660	Araujo-Vieira et al. 2023
<i>Scinax proboscideus</i>	Potaro-Siparuni, Iwokrama, Guyana	USNM531493	OQ934661	Araujo-Vieira et al. 2023
<i>Scinax jolyi</i>	Oiapoque, Amapá, Brazil	AF1094	KDQF01000395	Vacher et al. 2020
<i>Scinax jolyi</i>	French Guiana	PG136	OQ934617	Araujo-Vieira et al. 2023
<i>Scinax jolyi</i>	Oiapoque, Amapá, Brazil	MTR24169	OQ934616	Araujo-Vieira et al. 2023
<i>Scinax jolyi</i>	Moiobamba, Rio Purus, Amazonas, Brazil	MTR19373	OQ934615	Araujo-Vieira et al. 2023
<i>Scinax jolyi</i>	Urucará, Amazonas, Brazil	MNRJ56752	OQ934614	Araujo-Vieira et al. 2023
<i>Scinax jolyi</i>	Kaw, Lac Pali, French Guiana	AG317	KDQF01001539	Vacher et al. 2020
<i>Scinax jolyi</i>	St Georges, French Guiana	AF0745	KDQF01000233	Vacher et al. 2020
<i>Scinax pyroinguinis</i>	Ucayali, Peru	CORBIDI24669	OQ883950	Chávez et al. 2023
<i>Scinax pyroinguinis</i>	Ucayali, Peru	CORBIDI24670	OQ883951	Chávez et al. 2023
<i>Scinax kennedyi</i>	Casanare Sabalanarga, Colombia	AJC 4051	KP149321	Guarnizo et al. 2015
<i>Scinax kennedyi</i>	Casanare Sabalanarga, Colombia	AJC 4061	KP149429	Guarnizo et al. 2015
<i>Scinax kennedyi</i>	Casanare Sabalanarga, Colombia	AJC 4074	KP149463	Guarnizo et al. 2015
<i>Scinax kennedyi</i>	Sabanalarga, Colombia	AJC 4070	OQ934621	Araujo-Vieira et al. 2023
<i>Scinax kennedyi</i>	San Juan Arama, Meta, Colombia	AJC 1747	KP149308	Guarnizo et al. 2015
<i>Scinax kennedyi</i>	San Juan Arama, Meta, Colombia	AJC 1741	OQ934620	Araujo-Vieira et al. 2023
<i>Scinax kennedyi</i>	Barinas, Venezuela	CBAInv-c	OQ934619	Araujo-Vieira et al. 2023
<i>Scinax rostratus</i>	Mesitas del Colegio, Colombia	AJC 4268	OQ934674	Araujo-Vieira et al. 2023
<i>Scinax rostratus</i>	San Vicent Chucuri, Colombia	AJC 3506	KP149435	Guarnizo et al. 2015

<i>Scinax rostratus</i>	San Vicent Chucuri, Colombia	AJC 3422	KP149284	Guarnizo et al. 2015
<i>Scinax rostratus</i>	Cacique Manaure, Venezuela	MHNLS20686	OQ934672	Araujo-Vieira et al. 2023
<i>Scinax rostratus</i>	Montalban, Venezuela	MHNLS22230	OQ934673	Araujo-Vieira et al. 2023
<i>Scinax rostratus</i>	Rio Caura, Venezuela	247mc	EF376071	Salducci et al. 2005
<i>Scinax rostratus</i>		ASM351	OQ934675	Araujo-Vieira et al. 2023
<i>Scinax pedromedinae</i>	Tambopata, Peru	KU215308	OQ934652	Araujo-Vieira et al. 2023
<i>Scinax boulengeri</i> A	Guanacaste, Costa Rica	MVZ207215	OQ934428	Araujo-Vieira et al. 2023
<i>Scinax boulengeri</i> B	Limon, Costa Rica	MVZ149803	OQ934429	Araujo-Vieira et al. 2023
<i>Scinax boulengeri</i> B	Gracias a Dios, Honduras	USNM563968	OQ934430	Araujo-Vieira et al. 2023
<i>Scinax sugillatus</i>	Buena Fé, Ecuador	QCAZ35276	OQ934715	Araujo-Vieira et al. 2023
<i>Scinax sugillatus</i>	Manabi, Ecuador	KU217736	OQ934716	Araujo-Vieira et al. 2023
<i>Scinax sugillatus</i>	Darien, Panamá	AJC 577	OQ934714	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Poconé, Mato Grosso, Brazil	URCA2110	PZ840096	this study
<i>Scinax acuminatus</i>	Poconé, Mato Grosso, Brazil	CFBH14195	OQ934392	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Corrientes, Argentina	MACN 50722	OQ934393	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Corrientes, Argentina	MACN 38649	OQ934395	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Salta, Argentina	MACN45806	OQ934394	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Santa Fé, Argentina	MACN 43568	OQ934396	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Santa Fé, Argentina	MACN 43571	OQ934397	Araujo-Vieira et al. 2023
<i>Scinax acuminatus</i>	Ñeembucú, Paraguay	IIBPH277	KJ004189	Brusquett et al. 2014
<i>Scinax quinquefasciatus</i>	Matapolo, Peru	KU219772	OQ934662	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 0	Porto Velho, Rondônia, Brazil	MTRH1262	OQ934749	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 0	Porto Velho, Rondônia, Brazil	MTRH1263	OQ934750	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 0	Amazonas, Colombia	AJC 2839	OQ934748	Araujo-Vieira et al. 2023

<i>Scinax</i> sp. 6	Ilanos, Colombia	AAF-2007	EF217512	Fouquet et al. 2007
<i>Scinax</i> sp. 6	Maracá, Roraima, Brasil	MTR20499	KDQF01003466	Vacher et al. 2020
<i>Scinax</i> sp. 6	Puerto Ayacucho, Amazonas, Venezuela	CBAuv-e	OQ934757	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 7	Tambopata, Madre de Dios, Peru	WED57696	OQ934758	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 8	Apiacás, Mato Grosso, Brazil	MTR968395	OQ934759	Araujo-Vieira et al. 2023
<i>Scinax</i> sp. 8	APA Tapajós, Pará, Brazil	MPEG33365	KDQF01002963	Vacher et al. 2020
<i>Scinax alter</i>	Linhares, Espírito Santo, Brazil	MTR12151	KDQF01003196	Vacher et al. 2020
<i>Scinax boesemani</i>	French Guiana		EF217496	Fouquet et al. 2007
<i>Scinax chiquitanus</i>	Sara, Bolivia	MNK:A:9481	JF789945	Jansen et al. 2011
<i>Scinax crospedospilus</i>	São Luis do Paraitinga, São Paulo, Brazil	CFBHT16741	KU495541	Lyra et al. 2017
<i>Scinax elaeochroa</i>	Heredia, Costa Rica	MVZ 203919; MVZFC 14457	AY843757	Faivovich et al. 2005
<i>Scinax eurydice</i>	Serra do Teimoso, Jussari, Bahia, Brazil	MTR05927	KDQF01003135	Vacher et al. 2020
<i>Scinax fuscomarginatus</i>	Lagoa Santa, Minas Gerais, Brazil	CFBH24362	KJ004136	Brusquetti et al. 2014
<i>Scinax fuscovarius</i>	São Carlos, São Paulo, Brazil		JQ627229	Rodriguez & Galetti 2012 (unpublished)
<i>Scinax iquitum</i>	Puerto Almendra, Peru	NMP6V 71267/3	KU317398	Ferrão et al. 2016
<i>Scinax madeirae</i>	Porto Velho, Rondônia, Brazil	CFBH25469	KJ004101	Brusquetti et al. 2014
<i>Scinax nasicus</i>	Estancia San Jose, Ñeembucú, Paraguay	IIBPH262	KJ004188	Brusquetti et al. 2014
<i>Scinax onca</i>	Beruri, Amazonas, Brazil	INPA-H34581	KU317416	Ferrão et al. 2016
<i>Scinax ruber</i>	Cusco Amazónico, Madre de Dios, Peru	WED 56265; KU 207622	AY326034	Darst & Cannatella 2004
<i>Scinax ruberoculatus</i>	Lago Jari, Amazonas, Brazil	INPA-H35410	KU317405	Ferrão et al. 2016
<i>Scinax squalirostris</i>	Islas Del Ibicuy, Argentina	MACN 38241	AY843760	Faivovich et al. 2005
<i>Scinax staufferi</i>	Zacapa GUA	UTA A-50749	AY843761	Faivovich et al. 2005
<i>Scinax strussmannae</i>	Lago Jari, Amazonas, Brazil	INPA-H34700	KU317430	Ferrão et al. 2016
<i>Scinax villasboasi</i>	Serra do Cachimbo, Pará, Brazil	CHUNB40161	KJ004109	Brusquetti et al. 2014

<i>Scinax x-signatus</i>	Aratai, French Guyana		EF217480	Fouquet et al. 2007
<i>Scinax wandae</i>	Casanare, Colombia	AJC 4120	KP149319	Guarnizo et al. 2015
<i>Julianus pinimus</i>	Cambare do Sul, Rio Grande do Sul, Brazil	CFBH 5788	AY843681	Faivovich et al. 2005
<i>Ololygon berthae</i>	Buenos Aires, Atalaya, Argentina	MLPA 2137	AY843754	Faivovich et al. 2005
<i>Ololygon catharinae</i>	Pro Mata, Rio Grande do Sul, Brazil	MCP3734	AY843756	Faivovich et al. 2005
<i>Ololygon faivovichii</i>	Angra dos Reis, Rios de Janeiro, Brazil	MNRJ40902	JN100002	Bell et al. 2012
<i>Ololygon peixotoi</i>	Queimada Grande, São Paulo, Brazil	CFBH9437	JN100005	Bell et al. 2012
<i>Sphaenorhynchus lacteus</i>	Laguna Larga, Exaltacion, Bolivi	MNK:A:9387	JF790144	Jansen et al. 2011

Table S2. List of analyzed sound files (.wav) of advertisement calls of species belonging to the *Scinax nebulosus* complex. Sound repositories: Coleção Bioacústica do Núcleo Regional de Ofiologia da UFC (CBUFC); Fonoteca Neotropical Jacques Viellard (FNJV); Macaulay Library (ML); Xeno-Canto (XC). NA = not available.

Lineage	Locality	Catalogue number	Specimen id	Recorder	Microfone
<i>S. divae</i>	Sítio Gameleira, Tianguá, Ceará, Brazil	CBUFC 546	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. divae</i>	Sítio Gameleira, Tianguá, Ceará, Brazil	CBUFC 547	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. divae</i>	Sítio Gameleira, Tianguá, Ceará, Brazil	CBUFC 565	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. divae</i>	REBIO Pedra Talhada, Quebrangulo, Alagoas, Brazil	CBUFC 548	URCA H 4117	TCM 5000	Sennheiser ME 66
<i>S. divae</i>	Passos de Camaragibe, Alagoas, Brazil	FNJV 0012673	unvoucher	Marantz PMD-222	Audiotechnica AT 835b
<i>S. divae</i>	RPPN Pedra Dantas, Lagoa dos Gatos, Pernambuco, Brazil	CBUFC 549	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. nebulosus</i>	IPEAN, Belém, Pará, Brazil	ML 194518	KU KUH 128371	UHER 4000	Uher Unspecified Model
<i>S. nebulosus</i>	IPEAN, Belém, Pará, Brazil	ML 194519	KU KUH 128372	UHER 4000	Uher Unspecified Model
<i>S. nebulosus</i>	IPEAN, Belém, Pará, Brazil	ML 194521	KU KUH 130030	NORELCO CARRY- CORDER	Unspecified Model
<i>S. nebulosus</i>	Bragança, Pará, Brazil	CBUFC 424	CHUFC A 11622	TASCAM DR-40	built-in
<i>S. nebulosus</i>	Primavera, Pará, Brazil	CBUFC 550	unvoucher	PMD 660	Yoga EM-9600
<i>S. nebulosus</i>	Santa Bárbara do Pará, Pará, Brazil	CBUFC 551	CHUFC A 10854	TASCAM DR-40	built-in
<i>S. nebulosus</i>	Tracuateua, Pará, Brazil	CBUFC 430	unvoucher	TASCAM DR-40	built-in
<i>S. constrictus</i>	Fazenda Poço d'Água, Mossâmedes, Goiás, Brazil	FNJV 0032875	unvoucher	Nagra E	Unspecified Model

<i>S. constrictus</i>	Fazenda Água Fria, Mossâmedes, Goiás, Brazil	FNJV 0032868	unvoucher	Nagra E	Unspecified Model
<i>S. constrictus</i>	Fazenda Rio Fontoura, Barra do Garças, Mato Grosso, Brazil	FNJV 0032060	unvoucher	Uher 4000 Report IC	Unspecified Model
<i>S. constrictus</i>	Rio Cuiabá M.D, Mato Grosso, Brazil	CBUFC 563	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. constrictus</i>	Poconé, Mato Grosso, Brazil	CBUFC 564	unvoucher	TCM 5000	Sennheiser ME 66
<i>S. cynocephalus</i>	Rorota, Rémire-Montjoly, French Guiana	CBUFC 559	unvoucher	Olympus LS11	Sennheiser ME 66
<i>S. cynocephalus</i>	Rorota, Rémire-Montjoly, French Guiana	CBUFC 560	unvoucher	Olympus LS11	Sennheiser ME 66
<i>S. cynocephalus</i>	Rorota, Rémire-Montjoly, French Guiana	CBUFC 561	unvoucher	Olympus LS11	Sennheiser ME 66
<i>S. cynocephalus</i>	Matoury Janvier, French Guiana	CBUFC 562	unvoucher	Olympus LS11	Sennheiser ME 66
<i>S. cynocephalus</i>	Cayenne, Franch Guiana	FNJV 0031350	unvoucher	Uher Monitor	DB-88
<i>S. cynocephalus</i>	Marty and Gaucher 2000, Franch Guiana	NA	NA	NA	NA
<i>S. cynocephalus</i>	Moeroe Kreek, Para, Surinami	XC 882872	NA	NA	NA
<i>S. cynocephalus</i>	Ricanau Kreek, Marowijne, Surinami	XC 882875	NA	NA	NA
<i>S. galacticus</i>	Altamira, Pará, Brazil	FNJV 0031349	unvoucher	Uher Monitor	DB-88
<i>S. galacticus</i>	Altamira, Pará, Brazil	FNJV 0031385	ZUEC-AMP 7240	Uher Monitor	DB-88
<i>S. galacticus</i>	Altamira, Pará, Brazil	FNJV 0031386	ZUEC-AMP 7253	Uher Monitor	DB-88
<i>S. galacticus</i>	Santarém, Pará, Brazil	CBUFC 552	unvoucher	PMD 660	Yoga EM-9600
<i>S. galacticus</i>	Santarém, Pará, Brazil	CBUFC 553	unvoucher	PMD 660	Yoga EM-9600
<i>S. galacticus</i>	Porto Grande, Amapá, Brazil	CBUFC 252	CHUFC A 10948	TASCAM DR-40	built-in

<i>S. galacticus</i>	Porto Grande, Amapá, Brazil	CBUFC 253	unvoucher	TASCAM DR-40	built-in
<i>S. galacticus</i>	Porto Grande, Amapá, Brazil	CBUFC 255	CHUFC A 10950	TASCAM DR-40	built-in
<i>S. galacticus</i>	Tartarugalzinho, Amapá, Brazil	CBUFC 258	unvoucher	TASCAM DR-40	built-in
<i>S. guapore</i>	Corumbá, Mato Grosso do Sul, Brazil	CBUFC 554	unvoucher	PMD 660	Yoga EM-9600
<i>S. guapore</i>	Nova Brasília, Rondônia, Brazil	ML 203515	USNM FS 049638	TCM 5000	Beyer
<i>S. guapore</i>	Marquez et al. 2002 CD1 - Track 76, Bolívia	NA	NA	NA	NA
<i>S. sp. (L1 West)</i>	Ribeiro Gonçalves, Piauí, Brazil	CBUFC 555	URCA H 2636	TCM 5000	Sennheiser ME 66
<i>S. sp. (L1 West)</i>	Ribeiro Gonçalves, Piauí, Brazil	CBUFC 556	URCA H 2637	TCM 5000	Sennheiser ME 66
<i>S. sp. (L1 West)</i>	Barra do Ouro, Tocantins, Brazil	CBUFC 557	URCA H 13551	PMD 660	Yoga EM-9600
<i>S. sp. (L1 West)</i>	Barra do Ouro, Tocantins, Brazil	CBUFC 558		PMD 660	Yoga EM-9600
<i>S. sp. (L1 West)</i>	Alcântara, Maranhão, Brazil	FNJV 0030693	unvoucher	Marantz PMD660	Audiotechnica AT835b
<i>S. sp. (L1 West)</i>	Barreirinhas, Maranhão, Brazil	CBUFC 415	unvoucher	TASCAM DR-40	built-in

Table S3. Uncorrected *p*-distances for the 16S rRNA (below the diagonal) and standard error estimates (above the diagonal) among lineages of the *Scinax nebulosus* complex and other species of the *S. rostratus* group (*sensu lato* Araujo-Vieira et al. 2023).

	Species	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]	[9]	[10]	[11]	[12]	[13]	[14]	[15]	[16]	[17]	[18]	[19]	[20]	[21]	[22]	[23]
[1]	<i>S. divae</i> sp. nov. (L1 East)		0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[2]	<i>S. nebulosus</i> (L2)	0.06		0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[3]	<i>S. constrictus</i> (L3)	0.05	0.07		0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[4]	<i>S. cynocephalus</i> (L5)	0.07	0.08	0.07		0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[5]	<i>S. galacticus</i> sp. nov. (L6)	0.09	0.11	0.09	0.08		0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[6]	<i>S. guapore</i> sp. nov. (L7)	0.07	0.09	0.09	0.10	0.10		0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[7]	L1 West	0.01	0.06	0.06	0.07	0.09	0.08		0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[8]	<i>S. sp.</i> (L4)	0.07	0.08	0.06	0.09	0.10	0.10	0.08		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[9]	<i>S. pedromedinae</i>	0.13	0.13	0.13	0.14	0.15	0.14	0.14	0.13		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02
[10]	<i>S. jolyi</i>	0.13	0.14	0.15	0.14	0.16	0.15	0.14	0.16	0.15		0.02	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
[11]	<i>S. acuminatus</i>	0.14	0.15	0.15	0.16	0.16	0.14	0.14	0.17	0.16	0.14		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[12]	<i>S. garbei</i>	0.14	0.15	0.15	0.15	0.16	0.17	0.14	0.16	0.16	0.05	0.15		0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
[13]	<i>S. kennedyi</i>	0.14	0.15	0.13	0.15	0.16	0.15	0.14	0.14	0.16	0.11	0.17	0.12		0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.02
[14]	<i>S. proboscideus</i>	0.14	0.15	0.15	0.15	0.17	0.17	0.14	0.16	0.16	0.04	0.14	0.04	0.11		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01
[15]	<i>S. pyroinguinis</i>	0.15	0.16	0.15	0.15	0.16	0.17	0.15	0.17	0.15	0.09	0.15	0.11	0.11	0.10		0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
[16]	<i>S. rostratus</i>	0.15	0.16	0.14	0.16	0.18	0.17	0.15	0.15	0.18	0.12	0.18	0.13	0.05	0.13	0.12		0.02	0.02	0.02	0.02	0.02	0.01	0.02
[17]	<i>S. quinquefasciatus</i>	0.15	0.16	0.15	0.17	0.17	0.16	0.15	0.15	0.16	0.15	0.16	0.16	0.16	0.16	0.14	0.16		0.02	0.02	0.02	0.02	0.02	0.02
[18]	<i>S. boulengeri</i> A	0.16	0.18	0.17	0.18	0.19	0.20	0.18	0.19	0.17	0.13	0.18	0.13	0.16	0.13	0.15	0.16	0.17		0.01	0.01	0.02	0.02	0.02
[19]	<i>S. boulengeri</i> B	0.17	0.17	0.16	0.17	0.18	0.19	0.17	0.18	0.16	0.12	0.16	0.12	0.15	0.11	0.13	0.15	0.16	0.07		0.01	0.02	0.02	0.02
[20]	<i>S. sugillatus</i>	0.17	0.17	0.17	0.17	0.19	0.18	0.17	0.19	0.17	0.11	0.16	0.12	0.15	0.12	0.13	0.15	0.16	0.08	0.08		0.02	0.02	0.02
[21]	<i>S. sp.</i> 0	0.14	0.15	0.14	0.15	0.14	0.15	0.14	0.16	0.07	0.15	0.15	0.14	0.16	0.15	0.15	0.16	0.17	0.16	0.17	0.17		0.02	0.02
[22]	<i>S. sp.</i> 6	0.16	0.17	0.17	0.17	0.17	0.16	0.16	0.15	0.15	0.11	0.17	0.13	0.05	0.12	0.12	0.07	0.15	0.16	0.15	0.15	0.15		0.02
[23]	<i>S. sp.</i> 7	0.14	0.14	0.15	0.15	0.17	0.16	0.14	0.16	0.17	0.07	0.15	0.08	0.10	0.08	0.11	0.12	0.16	0.13	0.14	0.14	0.15	0.12	
[24]	<i>S. sp.</i> 8	0.14	0.15	0.14	0.15	0.16	0.16	0.14	0.15	0.16	0.05	0.14	0.05	0.11	0.04	0.11	0.12	0.16	0.13	0.13	0.13	0.15	0.11	0.09

Tables S4. Significance values for pairwise comparisons obtained from *post hoc* permutation MANOVA tests (Pillai's trace), based on the scores of the first two principal components derived from morphometric variables of males (A) and females (B), and from bioacoustic variables (C) of lineages within the *Scinax nebulosus* complex.

(A)						
	L1	L2	L3	L4	L5	L6
L2	0.06	-	-	-	-	-
L3	> 0.01	> 0.01	-	-	-	-
L4	0.04	> 0.01	> 0.01	-	-	-
L5	> 0.01	> 0.01	> 0.01	> 0.01	-	-
L6	0.40	0.58	> 0.01	0.06	> 0.01	-
L7	> 0.01	> 0.01	0.12	> 0.01	> 0.01	> 0.01
(B)						
	L1	L2	L3	L4	L6	
L2	0.59	-	-	-	-	
L3	> 0.01	0.01	-	-	-	
L4	0.45	0.59	0.59	-	-	
L6	0.97	0.59	> 0.01	0.59	-	
L7	0.97	0.59	0.24	0.79	0.99	
(C)						
	L1	L2	L3	L5	L6	
L2	> 0.01	-	-	-	-	
L3	> 0.01	> 0.01	-	-	-	
L5	> 0.01	0 > 0.01	> 0.01	-	-	
L6	> 0.01	0.08	> 0.01	> 0.01	-	
L7	> 0.01	0.42	0.02	> 0.01	0.54	

Table S5. Comparisons of call parameters among the species associated with the *Scinax nebulosus* species complex.

	<i>S. divae</i> sp. nov. (L1 East) (48 calls, 7 males)	<i>S. nebulosus</i> (L2) (62 calls, 8 males)	<i>S. constrictus</i> (L3) (47 calls, 6 males)	<i>S. cynocephalus</i> (L5) (60 calls, 11 males)	<i>S. galacticus</i> sp. nov. (L6) (61 calls, 11 males)	<i>S. guapore</i> sp. nov. (L7) (13 calls, 4 males)
Call duration (ms)	180 ± 60 (70-280)	130 ± 40 (60-220)	190 ± 60 (90-260)	150 ± 30 (70-240)	160 ± 40 (70-240)	140 ± 40 (80-190)
Inter-call interval (ms)	2,019 ± 638 (786-3,168)	1,030 ± 310 (580-1,540)	3,590 ± 3,750 (730-9,600)	2,820 ± 1,750 (940-7,560)	1,430 ± 630 (510-3,520)	8,400 ± 2,300 (4,400-11,600)
Note number per call	8.6 ± 2.6 (4-13)	7.4 ± 1.8 (4-12)	7.8 ± 2.3 (4-12)	10.8 ± 2.0 (5-15)	8.0 ± 2.0 (4-12)	7.9 ± 2.0 (5-10)
Note duration (ms)	13 ± 2 (9-16)	13 ± 1 (10-15)	16 ± 2 (11-20)	11 ± 2 (9-16)	15 ± 2 (12-20)	15 ± 1 (13-17)
Inter-note interval (ms)	22 ± 2 (18-25)	17 ± 1 (16-20)	26 ± 4 (18-31)	15 ± 1 (12-17)	20 ± 2 (15-23)	18 ± 1 (17-19)
Note repetition rate (notes/s)	49.9 ± 5.3 (39.4-58.6)	56.6 ± 4.7 (49.1-67.7)	42.6 ± 4.9 (33.2-50.4)	65.1 ± 4.74 (58.0-76.8)	50.0 ± 4.8 (43.1-61.7)	57.3 ± 3.2 (53.5-64.3)
Pulses per note	5.0 ± 0.7 (3-6)	7.7 ± 0.8 (6-9)	7.3 ± 1.2 (5-9)	5.2 ± 0.9 (4-7)	7.8 ± 1.0 (6-10)	7.5 ± 0.7 (6-9)
Dominant frequency (Hz)	3,421 ± 154 (3,014-3,843)	3,708 ± 147 (3,316-3,919)	3,458 ± 300 (3,000-3,937)	3,264 ± 190 (2,928-3,531)	3,497 ± 249 (3,093-4,125)	3,519 ± 329 (3,100-4,091)
Minimum frequency (Hz)	2,358 ± 164 (2,109-2,627)	2,583 ± 141 (2,368-2,885)	2,196 ± 140 (1,875-2,343)	2,378 ± 324 (1,937-2,953)	2,551 ± 196 (2,156-2,832)	2,450 ± 73 (2,282-2,627)
Maximum frequency (Hz)	3,795 ± 219 (3,531-4,171)	4,055 ± 156 (3,703-4,306)	3,673 ± 346 (3,230-4,312)	3,712 ± 267 (3,187-4,306)	3,988 ± 223 (3,402-4,500)	4,240 ± 401 (3,574-4,780)
Bandwidth (Hz)	1,437 ± 263 (1,120-2,062)	1,472 ± 158 (1,119-1,765)	1,503 ± 329 (990-2,062)	1,334 ± 272 (796-1,722)	1,460 ± 273 (1,031-1,968)	1,789 ± 432 (1,119-2,368)

Table S6. Morphometric variables (mm) of males (♂) and females (♀) of *Scinax divae* sp. nov., *Scinax nebulosus*, *Scinax constrictus*, *Scinax cynocephalus*, *Scinax galacticus* sp. nov. and *Scinax guapore* sp. nov. Means ± standard deviation, ranges into parentheses.

(mm)	<i>S. divae</i> sp. nov. (L1 E)		<i>S. nebulosus</i> (L2)		<i>S. constrictus</i> (L3)		<i>S. cynocephalus</i> (L5)		<i>S. galacticus</i> sp. nov. (L6)		<i>S. guapore</i> sp. nov. (L7)	
	♂ (n = 121)	♀ (n = 27)	♂ (n = 56)	♀ (n = 20)	♂ (n = 34)	♀ (n = 5)	♂ (n = 25)	♀ (n = 1)	♂ (n = 74)	♀ (n = 17)	♂ (n = 30)	♀ (n = 5)
SVL	26.3 ± 1.5 (23.9-31.0)	35.3 ± 3.1 (28.3-40.0)	26.9 ± 2.1 (21.2-32.7)	35.1 ± 1.9 (31.5-38.2)	26.7 ± 3.1 (19.0-32.9)	33.6 ± 3.0 (30.2-37.4)	27.5 ± 1.4 (24.1-30.3)	37.7	26.4 ± 2.3 (21.9-32.4)	35.9 ± 3.3 (30.8-40.7)	25.8 ± 1.9 (21.3-29.2)	33.5 ± 2.1 (31.0-36.3)
HL	9.7 ± 0.6 (8.3-11.7)	12.6 ± 1.3 (9.4-14.9)	9.8 ± 1.0 (7.5-12.9)	12.6 ± 0.8 (11.5-14.5)	10.1 ± 0.9 (7.9-12.0)	11.6 ± 0.7 (11.0-12.8)	10.0 ± 0.9 (7.6-11.5)	13.0	9.8 ± 0.6 (8.6-11.1)	13.2 ± 1.0 (11.1-14.3)	9.2 ± 1.3 (7.1-11.4)	11.5 ± 0.8 (10.7-12.5)
HW	8.6 ± 0.6 (7.4-10.2)	11.6 ± 1.3 (8.9-13.3)	8.7 ± 0.9 (7.1-11.3)	11.5 ± 0.8 (9.8-13.3)	9.0 ± 1.0 (6.6-10.6)	10.8 ± 1.0 (10.0-12.3)	9.2 ± 0.5 (8.2-10.4)	12.3	8.6 ± 0.6 (7.2-10.0)	11.9 ± 1.2 (9.5-13.7)	8.9 ± 0.7 (6.8-10.1)	11.1 ± 0.3 (10.7-11.4)
ED	3.2 ± 0.3 (2.6-4.0)	3.9 ± 0.4 (3.0-4.4)	3.3 ± 0.3 (2.7-4.1)	4.0 ± 0.3 (3.5-4.5)	3.7 ± 0.5 (2.5-5.0)	3.9 ± 0.5 (3.1-4.3)	3.6 ± 0.3 (2.7-4.2)	4.2	3.2 ± 0.3 (2.5-4.0)	4.0 ± 0.3 (3.4-4.5)	3.4 ± 0.5 (2.5-4.5)	4.1 ± 0.4 (3.7-4.6)
TD	1.3 ± 0.1 (1.0-1.7)	1.8 ± 0.2 (1.3-2.1)	1.3 ± 0.2 (1.0-1.8)	1.8 ± 0.2 (1.4-2.3)	1.4 ± 0.2 (1.1-1.9)	1.9 ± 0.3 (1.6-2.2)	1.4 ± 0.2 (0.9-1.9)	1.7	1.3 ± 0.1 (1.0-1.6)	1.8 ± 0.2 (1.4-2.2)	1.3 ± 0.2 (1.0-1.9)	1.7 ± 0.2 (1.5-1.9)
IOD	5.1 ± 0.4 (4.3-6.1)	6.6 ± 0.6 (4.8-7.4)	5.1 ± 0.6 (3.9-6.4)	6.4 ± 0.5 (5.4-7.8)	5.1 ± 0.6 (3.8-6.0)	5.9 ± 0.8 (5.1-7.0)	5.1 ± 0.3 (4.7-5.6)	6.4	5.0 ± 0.4 (4.3-6.2)	6.7 ± 0.6 (5.5-7.6)	5.2 ± 0.6 (3.8-7.7)	6.4 ± 0.3 (6.1-6.8)
EN	3.5 ± 0.3 (2.9-4.3)	4.8 ± 0.5 (3.5-5.5)	3.6 ± 0.5 (2.4-5.9)	4.6 ± 0.3 (4.1-5.4)	3.4 ± 0.4 (2.6-4.2)	4.2 ± 0.4 (3.8-4.8)	3.5 ± 0.4 (2.5-4.0)	5.0	3.5 ± 0.3 (2.6-4.4)	4.9 ± 0.5 (3.8-5.5)	3.0 ± 0.5 (2.2-4.0)	4.1 ± 0.3 (3.7-4.6)
IND	2.0 ± 0.2 (1.6-2.4)	2.6 ± 0.3 (2.0-3.0)	2.0 ± 0.2 (1.5-2.5)	2.6 ± 0.3 (2.1-3.1)	2.0 ± 0.3 (1.2-2.6)	2.2 ± 0.4 (1.7-2.8)	2.2 ± 0.1 (1.9-2.5)	2.5	2.0 ± 0.1 (1.6-2.3)	2.6 ± 0.3 (2.2-3.0)	2.0 ± 0.2 (1.4-2.3)	2.5 ± 0.2 (2.4-2.8)
FAL	5.0 ± 0.4 (4.0-6.2)	6.8 ± 0.7 (5.3-7.9)	5.1 ± 0.5 (3.7-6.3)	6.5 ± 0.4 (5.7-7.5)	4.6 ± 0.7 (2.7-6.0)	6.0 ± 0.6 (5.0-6.4)	4.8 ± 0.3 (4.3-5.5)	6.7	5.0 ± 0.5 (4.1-6.2)	6.8 ± 0.8 (5.6-7.9)	4.5 ± 0.5 (3.7-5.4)	6.0 ± 0.5 (5.2-6.7)
HAL	7.0 ± 0.6 (5.3-8.8)	9.3 ± 1.2 (6.7-11.9)	7.1 ± 0.7 (5.9-8.9)	9.3 ± 0.8 (7.7-10.8)	7.6 ± 0.9 (5.4-9.4)	9.3 ± 1.1 (8.3-10.6)	7.8 ± 0.4 (6.8-8.3)	10.7	7.0 ± 0.9 (5.4-9.6)	9.5 ± 1.3 (7.6-11.4)	7.4 ± 0.6 (6.0-8.3)	9.1 ± 0.7 (8.4-10.1)
Fin3L	4.9 ± 0.5 (3.7-6.3)	6.5 ± 0.8 (4.9-7.6)	5.0 ± 0.5 (4.1-6.3)	6.6 ± 0.6 (5.3-7.8)	4.9 ± 0.6 (3.6-6.2)	5.9 ± 0.9 (5.1-7.1)	5.3 ± 0.3 (4.5-5.7)	8.1	4.9 ± 0.6 (3.8-6.7)	6.5 ± 0.8 (5.2-7.7)	4.8 ± 0.4 (3.9-5.7)	6.0 ± 0.1 (5.8-6.1)

THL	12.5 ± 1.1 (9.6-15.3)	16.9 ± 1.8 (12.8-19.8)	12.6 ± 1.2 (10.1-16.3)	16.7 ± 1.1 (14.4-18.5)	13.4 ± 1.8 (8.9-17.9)	16.1 ± 1.1 (14.8-17.8)	13.2 ± 1.0 (10.9-14.9)	19.1	12.5 ± 1.2 (10.4-15.5)	17.2 ± 1.8 (14.2-19.7)	12.8 ± 1.3 (10.5-14.9)	16.1 ± 0.8 (15.0-16.9)
TL	14.0 ± 0.9 (12.2-17.1)	18.8 ± 1.9 (14.4-21.6)	14.6 ± 1.3 (11.3-18.5)	19.5 ± 1.4 (16.9-22.4)	14.2 ± 1.7 (9.2-17.4)	17.8 ± 1.4 (16.2-20.0)	14.8 ± 0.7 (13.7-15.9)	21.3	14.1 ± 1.3 (11.8-17.9)	19.4 ± 2.0 (15.8-22.3)	14.0 ± 1.2 (11.3-15.6)	18.1 ± 1.5 (15.6-19.7)
TSL	8.1 ± 0.7 (6.6-10.1)	10.9 ± 1.1 (8.3-12.7)	8.3 ± 0.9 (5.9-11.4)	10.6 ± 0.7 (9.4-12.4)	7.8 ± 1.2 (6.3-13.8)	9.3 ± 0.5 (8.4-9.8)	8.1 ± 0.5 (7.0-9.2)	11.9	8.2 ± 0.7 (7.0-10.1)	11.0 ± 1.1 (9.4-12.6)	7.4 ± 0.9 (5.8-9.9)	9.7 ± 1.7 (7.4-11.7)
FL	10.3 ± 0.8 (8.7-12.5)	13.7 ± 1.7 (10.0-16.1)	10.7 ± 1.0 (9.1-13.5)	14.0 ± 1.2 (11.2-17.0)	11.2 ± 1.4 (8.5-14.4)	13.9 ± 1.4 (12.9-16.3)	11.4 ± 0.6 (10.1-12.8)	16.0	10.8 ± 1.7 (8.3-15.1)	14.0 ± 1.9 (10.9-16.9)	11.1 ± 1.0 (8.7-12.7)	13.9 ± 0.8 (13.1-15.3)

Table S7. Comparisons of call parameters among the species associated with the *Scinax nebulosus* species complex reported in the literature.

	Duellman (1972) 7 calls, 2 males	Hödl (1977) 8 calls, 2 males	Duellman and Pyles (1983) 9 calls, 3 males	De La Riva et al. (1994) 5 calls, 1 male	Lima et al. (2004) 30 calls, 5 males	Gambale et al. (2014) 310 calls, 62 males	Souza et al. (2020) 13 calls, 1 male	Oliveira et al. (2024) 60 calls, 10 males	Prado & Sturaro (2025) 100 calls, 4 males
Lineage	unknown	unknown	L2	L7	L3	L3	L3	L1 East	L2
Structure of the call	series of multipulsed notes	series of multipulsed notes (1 + 5)	single multipulsed note	single multipulsed note	series of multipulsed notes	series of multipulsed notes	series of multipulsed notes	single multipulsed note	series of multipulsed notes
Call duration (ms)	160 (130-200)	1,580 (840-1,850)	130 (100-170)	240.6 ± 43.6 (201.1-305)	213.4 ± 24.0 (180.2-242.2)	150 ± 50 (60-260)	106 ± 49.5 (37-179)	300 ± 100 (100-300)	79.2 ± 31.8 (42.6-185.2)
Inter-call interval (ms)	-	ca 10,200	-	-	-	-	-	600 ± 300 (200-2,300)	2,930 ± 4,349 (686.8-24,419)
Note number	5.4 (4-7)	1 primary + 5 secondary	-	13.4 ± 2.6 (11-17) ¹	9.3 ± 0.9 (6-10)	7.05 ± 2.17 (3-11)	4.46 ± 1.8 (2-7)	9 ± 1 (7-11) ¹	4.4 ± 1.59 (3-9)
Note duration (ms)	-	-	-	-	17.08 ± 2.01 (14.5-20.4)	10 ± 10 (10-20)	14.3 ± 2.93 (3-20)	-	15.7 ± 2.2 (8.5-20.1) ³
Inter-note interval (ms)	-	-	-	-	6.9 ± 0.7 (6-8)	-	-	-	-
Note repetition rate (notes/s)	58 (55-60) ²	41 (38-43) ²	60 ²	55.6 ± 1.3 (54.2-57.6) ²	-	-	-	-	-
Pulse number	-	-	-	-	7 ± 2 (4-9)	5.63 ± 1 (3-8)	5.8 ± 0.92 (2-7)	-	9 ± 1.1 (6-12) ³
Dominant frequency (Hz)	720 + 1050*	4,500 (4,200-4,800)	3,986 (3,840-4,147) ³	2,867 ± 167 (2,685-3,129)	3,292 ± 123 (3,115-3,487)	3,409 ± 189 (3,007-3,409)	3,432 ± 135.5 (3,186-3,617)	3,453 (3,223-4,399)	3,073 ± 344.7 (2,411-3,937)
Minimum frequency (Hz)	-	-	423 (412-428) ³	2,307 ± 124.9 (2,221-2,564)	-	-	-	1,450 (1,200-1,700)	2,322 ± 165.6 (2,153-2,812)
Maximum frequency (Hz)	-	-	-	-	-	-	-	7,560 (5,300-10,800)*	3,471 ± 336.7 (3,014-4,312)

¹provided as number of pulses, ²provided as number of pulses per second, ³values for the mid-note, *values differ from the spectrogram showed by the author.

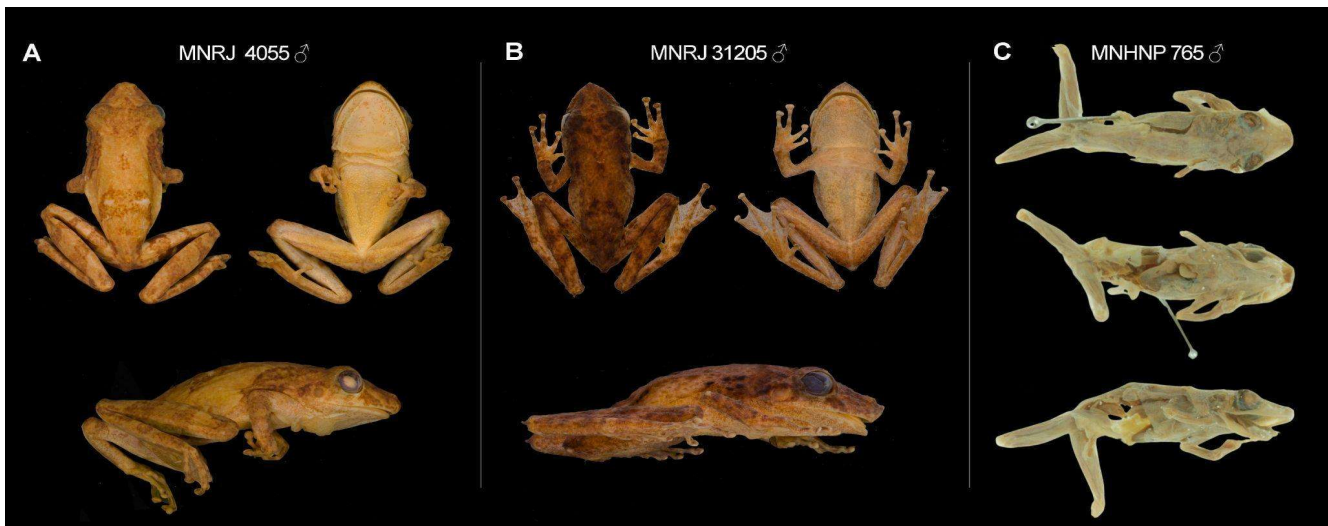


Fig. S1. Type material of species associated with the *Scinax nebulosus* species complex. Holotype of *Hyla egleri* MNRJ 4055 (MNRJanf_4055_2-3) from the pirarucu pond of the Museu Goeldi in Belém, Pará, Brazil (A); Holotype of *Scinax constrictus* MNRJ 31205 (MNRJanf_31205_2-3) from Sítio dos Pinheiros, Municipality of Palmeiras, Goiás, Brazil (B); and Holotype of *Hyla cynocephala* MNHNP 765 from French Guiana (C). Photos: R. de M. S. Rodrigues (MNRJ).

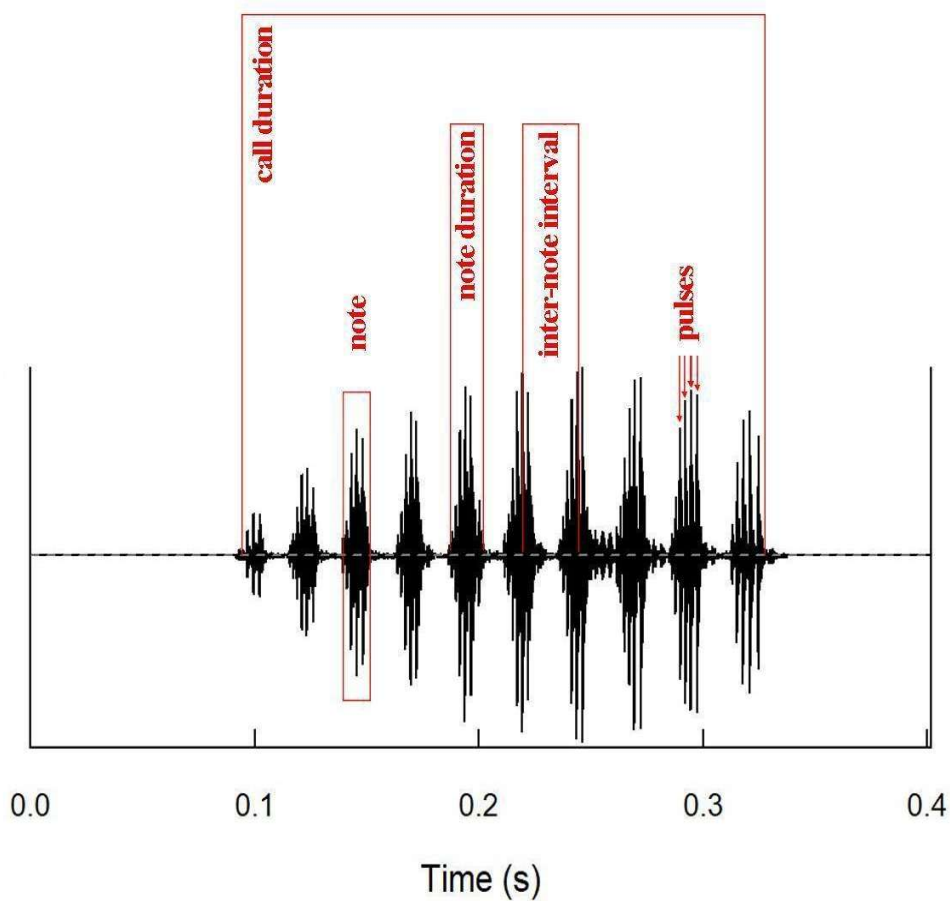


Fig. S2. Schematic representation of the advertisement call structure of lineages of the *Scinax nebulosus* species complex, showing the method used to measure the acoustic variables analyzed in this study.

Scinax rostratus group

Scinax nebulosus complex

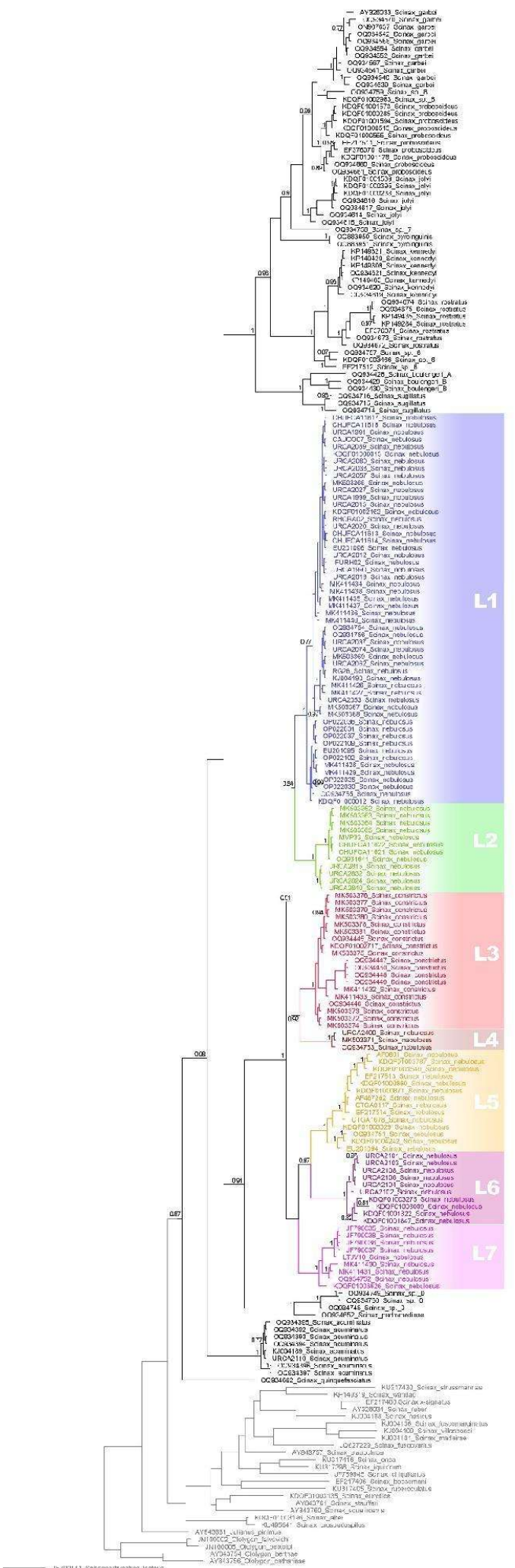


Fig. S3. Bayesian phylogenetic tree of the *Scinax rostratus* group (*sensu lato* Araujo-Vieira et al. 2023) based on 16S rRNA sequences (401 bp), highlighting the lineages of the *S. nebulosus* species complex (colored boxes). Best-fit substitution model: GTR + I + G. Branch support values are shown only for posterior probabilities greater than 0.75.

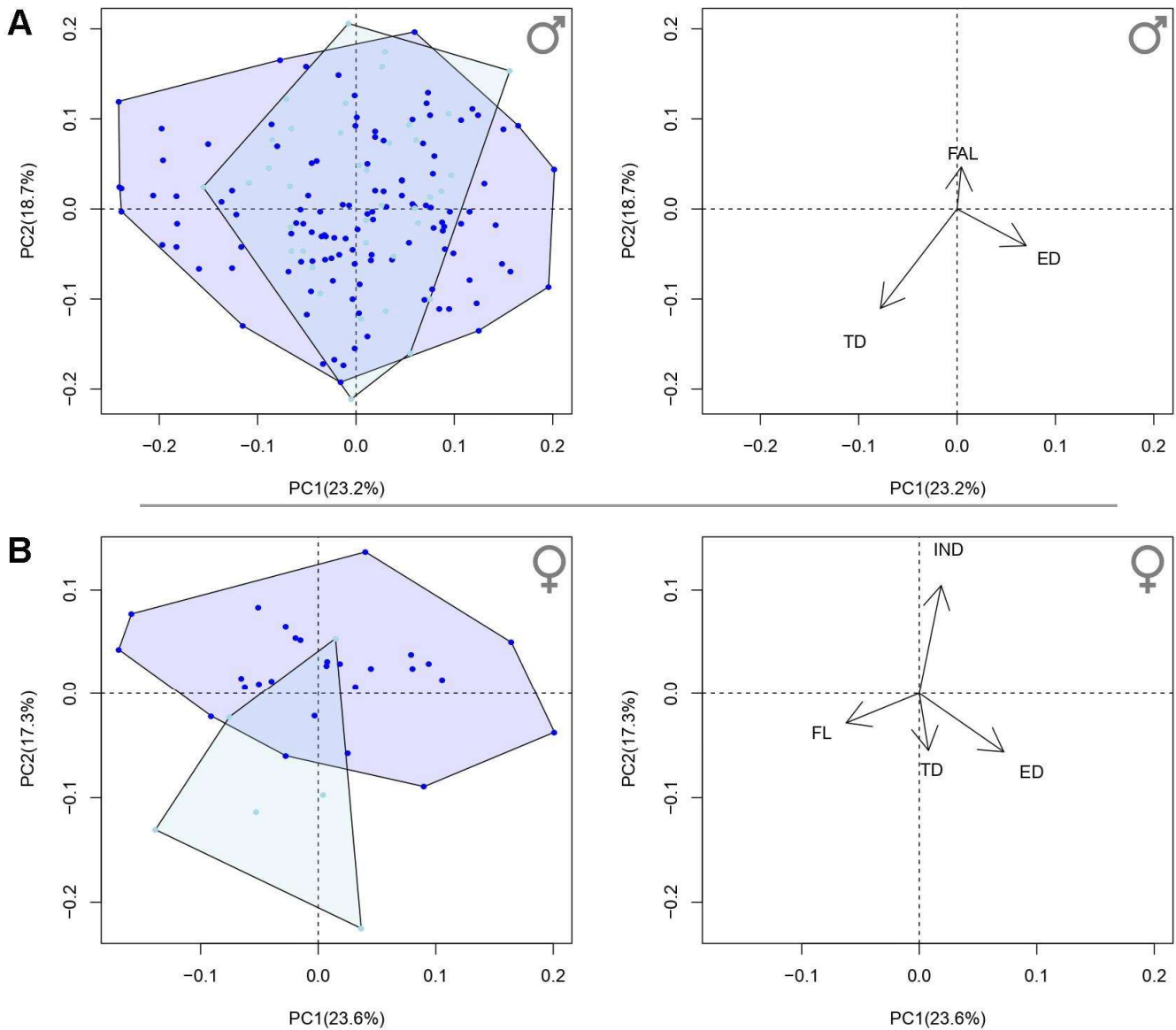


Fig. S4. Principal Components Analysis (PCA) of morphometric variables in males and females of the L1 OTU, comparing L1 East (dark blue) and L1 West (light blue) populations. Eye diameter (ED), foot length (FL), forearm length (FAL), internarial distance (IND), tympanum diameter (TD).

Literature

- Araujo-Vieira K., Lourenço A.C., Lacerda J.V.A. et al. 2023: Treefrog diversity in the Neotropics: Phylogenetic relationships of Scinaxini (Anura: Hylidae: Hylinae). *South Am. J. Herpetol.* 27 (Special Issue): 1–143.
- Bell R.C., Brasileiro C.A., Haddad C.F.B. et al. 2012: Evolutionary history of *Scinax* treefrogs on land-bridge islands in south-eastern Brazil. *J. Biogeogr.* 39: 1733–1742.
- Brusquetti F., Jansen M., Barrio-Amorós C. et al. 2014: Taxonomic review of *Scinax fuscomarginatus* (Lutz, 1925) and related species (Anura; Hylidae). *Zool. J. Linn. Soc.* 171: 783–821.
- Chávez G., Aznaran W., García-Ayachi L.A. et al. 2023: Rising from the ashes: a new treefrog (Anura: Hylidae: *Scinax*) from a wildfire-threatened area in the Amazon lowlands of central Peru. *Evol. Syst.* 7: 183–194.
- Darst C.R. & Cannatella D.C. 2004: Novel relationships among hyloid frogs inferred from 12S and 16S mitochondrial DNA sequences. *Mol. Phylogenet. Evol.* 31: 462–475.

- Freitas T.M.B., Abreu J.M.S., Sampaio I. et al. 2022: Molecular data reveal multiple lineages of *Scinax nebulosus* (Spix, 1824) (Anura: Hylidae) with Plio-Pleistocene diversification in different Brazilian regions. *An. Acad. Bras. Ciênc.* 94: e20200733.
- Dubeux M.J.M., Nascimento F.A., Correia L.L. et al. 2022: DNA barcoding in Neotropical tadpoles: evaluation of 16S rRNA gene for identification of anuran larvae from northeastern Brazil. *Cuad. Herpetol.* 36: 169–183.
- Faivovich J., Haddad C.F.B., Garcia P.C.A. et al. 2005: Systematic review of the frog family Hylidae, with special reference to Hylineae: phylogenetic analysis and taxonomic revision. *Bull. Am. Mus. Nat. Hist.* 294: 1–240.
- Ferrão M., Colatreli O., de Fraga R. et al. 2016: High species richness of *Scinax* treefrogs (Hylidae) in a threatened Amazonian landscape revealed by an integrative approach. *PLOS ONE* 11: e0165679.
- Fouquet A., Gilles A., Vences M. et al. 2007: Underestimation of species richness in Neotropical frogs revealed by mtDNA analyses. *PLOS ONE* 2: e1109.
- Guarnizo C.E., Paz A., Muñoz-Ortiz A. et al. 2015: DNA barcoding survey of anurans across the Eastern Cordillera of Colombia and the impact of the Andes on cryptic diversity. *PLOS ONE* 10: e0127312.
- Jansen M., Bloch R., Schulze A. et al. 2011: Integrative inventory of Bolivia's lowland anurans reveals hidden diversity. *Zool. J. Linn. Soc.* 40: 567–583.
- Lyra M.L., Haddad C.F.B. & de Azeredo-Espin A.M.L. 2017: Meeting the challenge of DNA barcoding Neotropical amphibians: polymerase chain reaction optimization and new COI primers. *Mol. Ecol. Resour.* 17: 966–980.
- Quilumbaquin W., Carrera-Gonzalez A., Van der Heyden C. et al. 2023: Environmental DNA and visual encounter surveys for amphibian biomonitoring in aquatic environments of the Ecuadorian Amazon. *PeerJ* 11: e15455.
- Salducci M.-D., Marty C., Chappaz R. et al. 2002: Molecular phylogeny of French Guiana Hylineae: implications for the systematics and biodiversity of the Neotropical frogs. *C. R. Biol.* 325: 141–153.
- Vacher J.-P., Chave J., Ficetola F. et al. 2020: Large-scale DNA-based survey of frogs in Amazonia suggests a vast underestimation of species richness and endemism. *J. Biogeogr.* 47: 1781–1791.