

Supplementary File 1. Analyzed sound files (*.wav format) of the two sister species: *Pseudopaludicola matuta* sp. nov. and *P. mineira*.

Label	Date	Municipality (state)	Time	Air (°C)	Recorder - microphone	Voucher
Pseudop_matutaCurveloMG1bTR C_AAAGmt	23 Feb. 2011	Curvelo (MG)	18:20	24.0	M-audio Microtrack II - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG2aTRC _AAGmt	23 Feb. 2011	Curvelo (MG)	18:29	24.0	M-audio Microtrack II - ME66/K6 Sennheiser	AAG-UFU 0308
Pseudop_matutaCurveloMG3aTRC _AAGmt	23 Feb. 2011	Curvelo (MG)	18:35	24.0	M-audio Microtrack II - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG4aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	17:26	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG5aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	17:59	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG6aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	18:24	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG7aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	18:30	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	ZUEC 24304
Pseudop_matutaCurveloMG8aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	19:57	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	-
Pseudop_matutaCurveloMG9aFSA _AAGm661MK2	29 Nov. 2017	Curvelo (MG)	19:58	25.2	Marantz PMD 661MKII - ME66/K6 Sennheiser	ZUEC 24308
Pseudop_matutaCurveloMG10iIA H_AAAGmt	29 Nov. 2017	Curvelo (MG)	19:19	25.2	M-audio Microtrack II - ME66/K6 Sennheiser	ZUEC 24302
Pseudop_matutaCurveloMG11aIA	29 Nov. 2017	Curvelo (MG)	19:21	25.2	M-audio Microtrack II -	-

H_AAGmt						ME66/K6 Sennheiser	
Pseudop_matutaCurveloMG12aIA	29 Nov. 2017	Curvelo (MG)	20:16	25.2	M-audio Microtrack II -	ZUEC 24305	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG13aIA	29 Nov. 2017	Curvelo (MG)	20:32	25.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG14aIA	29 Nov. 2017	Curvelo (MG)	20:48	25.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG15cIA	29 Nov. 2017	Curvelo (MG)	20:56	25.2	M-audio Microtrack II -	ZUEC 24306	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG16fIA	29 Nov. 2017	Curvelo (MG)	21:23	25.2	M-audio Microtrack II -	ZUEC 24303	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG17aIA	29 Nov. 2017	Curvelo (MG)	21:08	25.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG18aIA	30 Nov. 2017	Curvelo (MG)	16:44	24.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG19cIA	30 Nov. 2017	Curvelo (MG)	17:39	24.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG20cIA	30 Nov. 2017	Curvelo (MG)	18:04	24.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG21aIA	30 Nov. 2017	Curvelo (MG)	17:45	24.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG22dIA	30 Nov. 2017	Curvelo (MG)	18:04	24.2	M-audio Microtrack II -	-	
H_AAGmt					ME66/K6 Sennheiser		
Pseudop_matutaCurveloMG23aIA	30 Nov. 2017	Curvelo (MG)	17:46	24.2	M-audio Microtrack II -	-	

H_AAGmt						ME66/K6 Sennheiser	
Pseudop_matutaSantanadoRiacho MG24nIAH_AAGmt	02 Dec. 2017	Santana do Riacho (MG)	18:57	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	ZUEC 24324	
Pseudop_matutaSantanadoRiacho MG25aIAH_AAGmt	02 Dec. 2017	Santana do Riacho (MG)	18:18	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_matutaSantanadoRiacho MG26aIAH_AAGmt	02 Dec. 2017	Santana do Riacho (MG)	19:02	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_matutaSantanadoRiacho MG27bFSA_AAGmt	03 Dec. 2017	Santana do Riacho (MG)	20:58	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_matutaSantanadoRiacho MG28aFSA_AAGmt	03 Dec. 2017	Santana do Riacho (MG)	21:36	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_matutaSantanadoRiacho MG29cFSA_AAGmt	03 Dec. 2017	Santana do Riacho (MG)	21:25	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_matutaSantanadoRiacho MG30bFSA_AAGmt	03 Dec. 2017	Santana do Riacho (MG)	21:46	23.0	M-audio Microtrack II - ME66/K6 Sennheiser	ZUEC 24327	
FNJV_31921	10 Feb. 1965	Belo Horizonte (MG)	-	20.5	Uher 4000	-	
FNJV_32050	03 Nov. 1972	Santana do Riacho (MG)	21:00	17.0	Uher 4000	-	
FNJV_31921	10 Feb. 1964	Santana do Riacho (MG)	-	24.0	Uher 4000	-	
Pseudop_mineiraSantanadoRiacho MG1bFSA_AAGmt	04 Dec. 2017	Santana do Riacho (MG)	20:57	21.0	M-audio Microtrack II - ME66/K6 Sennheiser	-	
Pseudop_mineiraSantanadoRiacho MG2bFSA_AAGmt	04 Dec. 2017	Santana do Riacho (MG)	21:01	21.0	M-audio Microtrack II - ME66/K6 Sennheiser	ZUEC 24331	
Pseudop_mineiraSantanadoRiacho	04 Dec. 2017	Santana do Riacho (MG)	21:10	21.0	M-audio Microtrack II -	-	

MG3bFSA_AAGmt						ME66/K6 Sennheiser	
Pseudop_mineiraSantanadoRiacho	04 Dec. 2017	Santana do Riacho (MG)	21:18	21.0	M-audio Microtrack II -		-
MG4aFSA_AAGmt					ME66/K6 Sennheiser		
Pseudop_mineiraSantanadoRiacho	04 Dec. 2017	Santana do Riacho (MG)	19:15	21.0	Marantz PMD 661MKII -		-
MG5aIAH_AAGm661MK2					ME66/K6 Sennheiser		
Pseudop_mineiraSantanadoRiacho	04 Dec. 2017	Santana do Riacho (MG)	19:28	21.0	Marantz PMD 661MKII -		ZUEC 24330
MG6aIAH_AAGm661MK2					ME66/K6 Sennheiser		
Pseudop_mineiraSantanadoRiacho	04 Dec. 2017	Santana do Riacho (MG)	19:41	21.0	Marantz PMD 661MKII -		-
MG7aIAH_AAGm661MK2					ME66/K6 Sennheiser		

All files deposited at (Abreviation to collections): AAG sound collection (Universidade Federal de Uberlândia, Brazil); Fonoteca

Neotropical Jacques Vielliard (FNJV) (Universidade Estadual de Campinas, Brazil). Recordings made with tape recorders were digitized at 44.1 kHz and 16-bit resolution.