

Supplementary Table S1. Individual data of advertisement calls of *Scythrophrys sawayae* at Mananciais da Serra, Paraná, Brazil. Legend: FNVJ = audio code deposited in the Fonoteca Neotropical Jacques Viellard (Unicamp); RLUTF = specimen code deposited in the Amphibian Collection of the Universidade Tecnológica Federal do Paraná; SVL = snout–vent length; Temp = air temperature; MiF = minimum frequency; MaF = maximum frequency; DF = dominant frequency; CD = call duration; PD = pulse duration; NP = number of pulses; IC = inter-call intervals; IP = inter-pulse interval.

FNVJ	RLUTF	Mass (g)	SVL (mm)	Temp (°C)	MiF (Hz)	MaF (Hz)	DF (Hz)	CD (s)	PD (s)	NP	IC (s)	IP (s)
45445	430	0.3	14.5	14.4	3049.76±189.48 (2652.75–3356.55)	5052.87±185.57 (4709.99–5305.51)	4134.37±0	0.19±0.03 (0.13–0.23)	0.009±0.002 (0.005–0.015)	5.3±0.86 (4–7)	1.15±0.77 (0.68–2.5)	0.03±0.01 (0.023–0.069)
45448	431	0.3	15.3	18.7	2296.87±187.54 (1990.62–2450.0)	5390.0±167.74 (5206.25–5512.5)	4134.37±121.81 (3962.11–4306.64)	0.26±0.05 (0.16–0.29)	0.007±0.001 (0.003–0.011)	7.6±1.67 (5–9)	1.15±0.28 (0.90–1.71)	0.029±0.007 (0.010–0.037)
45446	432	0.3	15.4	14.4	3040.74±132.27 (2761.03–3194.13)	5287.46±216.96 (4872.41–5522.06)	4407.13±61.82 (4306.64–4478.91)	0.24±0.05 (0.12–0.29)	0.012±0.001 (0.007–0.015)	7.08±1.62 (4–9)	0.91±0.04 (0.86–0.99)	0.03±0.02 (0.003–0.10)
45449	472	0.4	14.7	16.3	3701.42±102.12 (3520.06–3844.88)	5182.09±112.12 (5008.85–5441.95)	4461.68±54.47 (4306.64–4478.91)	0.16±0.03 (0.09–0.18)	0.008±0.001 (0.004–0.008)	6.3±1.06 (4–7)	0.74±0.62 (0.43–2.46)	0.022±0.01 (0.003–0.032)
45450	491	0.3	15.2	15.6	3318.65±114.27 (3031.72–3410.68)	5229.72±108.88 (5088.96–5467.92)	4341.09±72.63 (4306.64–4478.9)	0.26±0.03 (0.20–0.31)	0.008±0.002 (0.005–0.011)	8.5±1.18 (6–10)	0.41±0.13 (0.28–0.73)	0.025±0.007 (0.005–0.033)
45451	492	0.4	13.6	15.6	3194.13±128.87 (3031.72–3410.68)	5081.22±95.98 (4980.63–5197.23)	4306.64±0	0.27±0.014 (0.24–0.28)	0.007±0.001 (0.005–0.009)	8.71±0.48 (8–9)	1.10±0.76 (0.65–3.6)	0.026±0.007 (0.005–0.030)
45453	730	0.2	13.7	14.9	3264.51±163.51 (3085.86–3681.37)	5830.65±157.42 (5576.2–6063.44)	4806.21±54.47 (4651.17–4823.44)	0.30±0.05 (0.18–0.38)	0.004±0.001 (0.002–0.006)	9.4±1.73 (6–12)	0.46±0.06 (0.37–0.55)	0.03±0.008 (0.006–0.061)
45452	745	0.3	14.7	14.9	2981.75±99.9 (2815.17–3194.13)	5118.11±124.27 (4872.41–5359.65)	4306.64±0.00	0.29±0.04 (0.24–0.40)	0.007±0.001 (0.005–0.010)	10.15±1.14 (9–13)	0.64±0.13 (0.51–0.96)	0.024±0.008 (0.003–0.029)
45454	–	–	–	20.7	2783.05±84.73 (2641.41–2871.09)	5305.78±119.97 (5053.12–5435.94)	4117.15±127.11 (3789.84–4306.64)	0.21±0.03 (0.15–0.24)	0.008±0.002 (0.004–0.011)	7.5±0.85 (6–9)	0.5±0.08 (0.42–0.71)	0.023±0.001 (0.020–0.024)
45447	–	–	–	14.4	2626.09±239.54 (2143.75–2909.37)	5106.72±173.28 (4746.87–5359.37)	3979.34±97.79 (3789.84–4134.37)	0.15±0.07 (0.007–0.22)	0.006±0.001 (0.004–0.008)	5.5±2.12 (1–8)	0.77±0.29 (0.46–1.3)	0.03±0.006 (0.012–0.035)