

SUPPLEMENTAL INFORMATION

**DOES TRAFFIC NOISE AFFECT THE ADVERTISEMENT CALL
OF *DENDROPSOPHUS NANUS* (ANURA, HYLIDAE)?**

***GONZALO R. LIBRAMENTO DE LOS SANTOS, VÍCTOR H. ZARACHO,
DANIEL ESPINOLA OCAMPO, AND MARÍA R. INGARAMO***

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<https://exa.unne.edu.ar/biologia/herpetologia/colecciones.htm#fonoteca>

TABLE S1. Air temperature at time of recording and body size of *D. nanus* individuals from northeastern Corrientes province (Argentina). Values are mean \pm standard deviation, followed by the range in parentheses. Abbreviations: BM = body mass; SVL = snout-vent length; df = degrees of freedom.

	Without-noise sites (n = 34)	Noisy sites (n = 33)	Statistical tests df = 65
Temperature (°C)	20.9 \pm 3.1 (14.3–25.5)	23.1 \pm 3.6 (18.9–30.3)	U = 487 P = 0.35
BM (g)	0.4 \pm 0.1 (0.3–0.6)	0.4 \pm 0.1 (0.2–0.6)	t = 1.33 P = 0.18
SVL (mm)	20.9 \pm 1.8 (15–22.9)	20.6 \pm 1.4 (17.8–23.2)	U = 432 P = 0.1

TABLE S2. Mean values of temporal parameters for each of the individuals analyzed. Abbreviations: No = number.

Individual	Condition	Temperature °C	Body mass (g)	SVL (mm)	A note duration (ms)	B note duration (ms)	No pulses (A notes)	No pulses (B notes)	Duration of complex call (ms)	No notes in complex call	Call rate (calls/min)	Note rate (notes/min)	Inter-call interval (ms)	Inter-note interval (ms)
1	noisy	30.3	0.29	21.26	38.9	21.1	10.8	4.7	338.6	2.3	92.07	253.7	532.7	194
2	noisy	30.3	0.35	19.75	31.1	20.7	10.5	5.8	244.2	2	73.6	265.4	683.2	202.4
3	noisy	30.3	0.35	20.08	36.7	23.7	11.3	7.2	470.9	3.3	56.56	289.4	669	169.3
4	noisy	30.3	0.38	19.18	35.7	19.7	11.8	5.6	338.8	2.5	86.5	259.9	735.1	185.5
5	noisy	27	0.35	18.09	36.6	25	12.1	7.8	383.6	2.7	50.23	275.2	570.5	197.1
6	noisy	27	0.39	21.15	33.6	17.7	9.9	4.6	385.2	2.6	61.9	253.44	641	194.5
7	noisy	27	0.36	20.88	37.1	22.2	10.6	5.6	214.7	2	63.05	325.1	1228.3	147.8
8	noisy	27	0.39	20.88	38.9	25.2	12	7.4	365.3	2.3	40.85	233.8	1105.3	208.3
9	noisy	21.5	0.36	20.85	43.1	18.3	10.7	4.2	430.4	2.5	50.6	221.9	930.4	224.9
10	noisy	21.5	0.32	19.36	42.7	20.7	9.5	4.2	324.6	2	23.3	199.86	1379.4	251.55
11	noisy	21.4	0.35	20.3	36.9	23.2	8.9	5.7	376.8	2.1	26.1	183.4	1299.2	269.4
12	noisy	21.1	0.32	19.94	41.3	24.6	9.7	4.6	492.3	2.4	28.4	187.14	1011.3	265.2
13	noisy	20.4	0.24	18.07	34.4	17.8	10.6	4	356.1	2	19.9	179.5	1541.1	280.7
14	noisy	27.1	0.5	20.45	26.4	17.7	8	4.6	364.1	2.4	44.08	233.9	851.7	215.3
15	noisy	23.3	0.43	20.2	32.6	21.4	8.1	4.9	471	2.6	32.65	196.6	1364.6	248.3
16	noisy	23.3	0.58	21.41	47.1	19.6	12.3	4.2	346.8	2	49.68	184.08	1095.1	267.7
17	noisy	23.3	0.48	21.8	41.7	20.6	11.3	5.6	454.9	2.5	41.19	203.04	1084.3	254.7
18	noisy	22.5	0.32	17.81	45.8	25	11.3	5.1	382.6	2.2	37.82	193.9	1120	246.1
19	noisy	22.5	0.38	20.08	29.5	20.1	8.05	4.7	410.8	2.4	24.79	199.7	1536.8	258.4
20	noisy	19.9	0.34	18.44	34.8	22.3	9.7	5.2	388.1	2.2	39.75	187.34	1245.8	278.5
21	noisy	21.2	0.36	19.86	37.3	21.1	8	4.4	1091.3	4.6	44.32	180.1	1038.7	293
22	noisy	20.2	0.42	20.54	40.6	24.2	9	5.1	535.6	2.6	34.92	183.4	1343	276.7

Individual	Condition	Temperature °C	Body mass (g)	SVL (mm)	A note duration (ms)	B note duration (ms)	No pulses (A notes)	No pulses (B notes)	Duration of complex call (ms)	No notes in complex call	Call rate (calls/min)	Note rate (notes/min)	Inter-call interval (ms)	Inter-note interval (ms)
23	noisy	20	0.3	19.08	33.5	22.6	7.4	4.5	495.1	2.4	34.13	172.58	1467.3	289.7
24	noisy	20	0.33	19.4	36.9	22.3	8.6	3.9	455.4	2.6	29.9	214.58	915.5	237.4
25	noisy	20.3	0.46	21.38	22.6	17.8	5.1	4.3	650.8	3.2	35.96	200.72	1013.2	258
26	noisy	20.3	0.48	23.12	38.2	21.9	10.1	4.3	351.9	2	48.21	185.3	1015.2	282.9
27	noisy	22.3	0.51	21.59	34.1	20.5	7.4	3.5	382.3	2.1	35.11	182.4	1204.8	279.6
28	noisy	18.9	0.6	23.18	53.5	28	10.7	4.25	431	2	60.32	151.35	1023.4	343.75
29	noisy	22.5	0.38	21.51	46.2	18.9	11.7	3.2	368.4	2.4	43.11	236.4	733.3	200.6
30	noisy	20.3	0.36	20.61	37.8	20.6	8	3.1	601.8	2.75	43.31	167.2	1161	301.9
31	noisy	20.3	0.43	21.97	44.7	26.6	10.8	5.9	416.6	2.2	28.64	175.1	1102.2	277.2
32	noisy	19.8	0.47	22.18	37.4	20.2	7.9	2.7	377.9	2.1	37.17	177.7	865.6	289.4
33	noisy	22.3	0.56	22.46	43.9	22.9	9.9	4.2	399.9	2.2	42.7	187.88	1069.7	249.1
34	noisy	18.9	0.54	22.94	50.3	24.8	12	5	436.3	2.3	27.1	185.32	1519.9	261.5
35	without- noise	22.6	0.4	20.2	42.1	22.8	11	5.3	494.7	2.8	33.9	240.86	734.7	208.8
36	without- noise	22.6	0.37	20.2	35.4	18.7	10.8	4.7	273	2	50.4	235.62	841.8	212.9
37	without- noise	22.7	0.33	18.7	23.3	17	7.7	5.2	299	2	32.2	223.82	1315.7	256
38	without- noise	25.5	0.31	21.6	37.6	22.4	9.9	4.8	302.7	2	42.5	217.4	981.3	237.4
39	without- noise	21.1	0.48	21.2	35.3	21.8	9.1	4.6	358.3	2.2	29.2	218.48	808.8	247.8
40	without- noise	21.1	0.41	20.7	37.5	18.2	9.6	4.8	289.4	2	32.8	224.24	1231.5	230.2
41	without- noise	20	0.39	19.8	46.5	27.5	10.1	4.5	367	2	24.8	187.6	1541.7	271

Individual	Condition	Temperature °C	Body mass (g)	SVL (mm)	A note duration (ms)	B note duration (ms)	No pulses (A notes)	No pulses (B notes)	Duration of complex call (ms)	No notes in complex call	Call rate (calls/min)	Note rate (notes/min)	Inter-call interval (ms)	Inter-note interval (ms)
42	without- noise	20	0.36	20.6	31.1	25.3	6.4	4.7	424.6	2.4	23.1	203.72	1419.5	245.9
43	without- noise	24.6	0.38	20.1	40.7	22.6	11.5	4.9	746.9	3.6	48.4	212.58	857	235.3
44	without- noise	22	0.39	20.5	46.7	32.3	11.8	6.4	326.8	2	41.9	202.36	778.5	246.3
45	without- noise	21.9	0.35	19.5	24.8	14.2	7.2	5	352.2	2.2	32.5	209.82	1082.2	259.4
46	without- noise	15.1	0.5	19.79	58.7	23.9	12.2	5.1	443.8	2	42.5	146.84	1333.7	352.6
47	without- noise	15.1	0.48	22.3	48.9	27.3	11.9	6.8	663.3	2.6	46.1	152.4	1020.1	339.6
48	without- noise	15.1	0.44	21.3	51.5	27.8	11.9	6.5	594.4	2.8	30.4	191.36	1290.3	273.7
49	without- noise	14.7	0.57	22.88	54.4	26.2	9.7	3.9	456.2	2	30.3	139.98	1399.3	363.7
50	without- noise	14.3	0.53	22.05	32.2	21.3	6.9	4.3	678	2.6	21.1	141.72	1774.3	352.8
51	without- noise	14.3	0.52	21.59	53.1	23.4	11.3	6	796.8	3.1	33.8	161.4	1530.5	318.5
52	without- noise	21.9	0.33	15	29.4	18.2	8.2	4.1	409.5	2.3	32.02	204.3	1270	242.2
53	without- noise	23.3	0.54	21.8	34.6	16	8.2	3.4	343	2	58.76	186.3	1023.4	278
54	without- noise	21.9	0.43	22.1	31.4	17.5	7.4	2.3	256.8	2	48.05	254.9	1110.6	203.8
55	without- noise	21.9	0.43	16.9	26.4	17.4	8.2	4.8	541.3	3.1	37.87	244.85	1100	207.3
56	without- noise	23.3	0.5	21.8	38.7	20.2	8.5	3	502.2	2.9	29.4	227.83	1300.7	220.6

Individual	Condition	Temperature °C	Body mass (g)	SVL (mm)	A note duration (ms)	B note duration (ms)	No pulses (A notes)	No pulses (B notes)	Duration of complex call (ms)	No notes in complex call	Call rate (calls/min)	Note rate (notes/min)	Inter-call interval (ms)	Inter-note interval (ms)
57	without- noise	20.5	0.52	21.8	49.7	23.2	11.4	4.6	288.3	2	40.77	230.436	974.1	210.8
58	without- noise	22.8	0.49	21.9	36.3	15.1	10.3	3.3	286.5	2	30.13	228.98	1336	239.8
59	without- noise	23.02	0.35	22.22	34.8	18.9	8.8	3.6	337.9	2.6	39.1	306.1	976	157.9
60	without- noise	23.02	0.43	22.26	35.5	23	9.8	6.1	487.7	3	40.75	235.9	994.5	202.1
61	without- noise	22.08	0.42	22.47	27.5	18.5	8.13	5.1	332.7	2.4	42.56	273.9	934.6	193.5
62	without- noise	22.08	0.42	22.62	36.1	18.1	10.3	3.5	310.5	2.1	54.99	218.5	737.7	222
63	without- noise	22.01	0.4	22.27	45.6	22.7	12.4	6.3	262.7	2	30.86	233.5	1377.6	190.9
64	without- noise	23.02	0.42	22.26	48.3	21.5	13.1	5.1	302.5	2.3	55.5	246.6	673.8	185.2
65	without- noise	22.08	0.49	22.31	37.5	22	9.7	4.5	337.7	2.2	72.8	234.6	820.1	231
66	without- noise	22.3	0.4	21.87	40.6	19.9	11.4	3.3	337.2	2.2	38.3	207.18	976.4	225.2
67	without- noise	22.3	0.35	17.95	31.8	17.4	10.1	5.3	309	2.3	42.3	262.44	860.5	179.3

TABLE S3. Mean values of spectral parameters for each of the individuals analyzed. Abbreviations: DF = dominant frequency; FB = frequency band

Individual	Condition	DF A note (kHz)	DF B note (kHz)	Upper limit of FB A note (kHz)	Lower limit of FB A note (kHz)	Upper limit of FB B note (kHz)	Lower limit FB B note (kHz)
1	noisy	4263.57	4272.18	5428.39	3338.01	5344.21	3417.34
2	noisy	4427.22	4341.06	5415.37	3192.08	5181.04	3295.4
3	noisy	4427.23	4366.94	5205.06	3459.27	5156.75	3493.38
4	noisy	4677.03	4668.42	5402.75	3356.28	5354.89	3527.02
5	noisy	4711.47	4659.81	5568.23	3797.51	5429.92	3729.34
6	noisy	4754.52	4694.24	5554.36	3526.41	5516.65	3488.44
7	noisy	4065.48	4186.07	5007.05	3259.3	5062.27	3421.16
8	noisy	4401.41	4384.18	5340.88	3458.91	5261.74	3527.64
9	noisy	4263.56	4211.88	4721.43	3301.64	4637.45	3289.64
10	noisy	4409.98	4409.98	4849.09	3488.81	4815.01	3574.44
11	noisy	4461.67	4478.9	5469.01	3455.9	5320.14	3462.9
12	noisy	4478.9	4427.21	5398.24	3875.85	5178.58	3905.76
13	noisy	4978.47	4909.55	5250.6	3815.45	5121.75	3908.65
14	noisy	4048.25	4082.71	4761.64	3117.21	4738.82	3180.0
15	noisy	4375.52	4341.06	5182.84	3624.02	5126.05	3623.66
16	noisy	4134.4	4134.4	5179.39	3245.04	5171.23	3355.01
17	noisy	4306.6	4306.6	5454.04	3377.37	5276.90	3432.15
18	noisy	4788.9	4771.74	5301.48	3910.32	5272.50	3888.97
19	noisy	4539.2	4513.36	5015.86	3719.73	4923.20	3722.73
20	noisy	4358.29	4323.83	5141.06	3622.1	5057.94	3689.83
21	noisy	4409.98	4478.9	5166.61	3599.1	5015.81	3663.02
22	noisy	3867.38	3858.76	4280.25	3102.58	4288.24	3311.27
23	noisy	4556.4	4565.03	5152.14	3480.21	5087.67	3683.67

Individual	Condition	DF A note (kHz)	DF B note (kHz)	Upper limit of FB A note (kHz)	Lower limit of FB A note (kHz)	Upper limit of FB B note (kHz)	Lower limit of FB B note (kHz)
24	noisy	4711.46	4711.47	5109.19	3906.9	5091.85	4104.52
25	noisy	4082.71	4117.17	5196.10	3270.3	5180.74	3295.65
26	noisy	4160.23	4143.0	5208.29	3190.39	5155.93	3321.63
27	noisy	3841.5	3910.41	4704.06	3161.92	4539.05	3230.62
28	noisy	3789.8	3789.8	4588.19	2984.8	4757.62	3074725.0
29	noisy	4082.71	4237.72	5062.63	3204.02	4984.30	3338.36
30	noisy	4306.6	4306.6	5161.88	3657.95	5109.24	3710.99
31	noisy	4461.67	4496.13	5296.31	3684.9	5277.82	3613.29
32	noisy	4134.4	4031.02	5045.92	3461.85	4966.90	3584.82
33	noisy	3962.1	3962.1	5093.91	3010.18	4941.73	3056.39
34	noisy	3962.1	3996.56	5343.62	3061.19	5259.16	3130.03
35	without-noise	4272.16	4203.28	5136.64	3245.71	5050.68	3440.83
36	without-noise	4306.6	4237.72	5048.85	3058.56	5057.38	3188.08
37	without-noise	4306.6	4306.6	4803.54	3409.86	4802.05	3487.1
38	without-noise	4117.15	4048.21	4971.95	3114.42	4890.05	3199.64
39	without-noise	3962.1	3962.1	4772.85	2904.51	4745.13	3018.2
40	without-noise	4378.4	4272.16	5127.60	3813.5	5128.32	3823.12
41	without-noise	4085.2	4134.4	4555.73	3076.6	4537.56	3252.7
42	without-noise	4306.6	4306.6	4948.42	3300.41	4954.45	3326.08
43	without-noise	4289.38	4289.38	5081.05	3286.09	5028.54	3310.77

Individual	Condition	DF A note (kHz)	DF B note (kHz)	Upper limit of FB A note (kHz)	Lower limit of FB A note (kHz)	Upper limit of FB B note (kHz)	Lower limit of FB B note (kHz)
44	without-noise	4151.62	4151.62	4770.08	3351.21	4763.18	3475.54
45	without-noise	4220.5	4220.5	4664.45	3116.59	4614.80	3224.77
46	without-noise	4168.84	4168.84	4693.29	3255.5	4694.74	3397.25
47	without-noise	4306.6	4306.6	5422.73	3360.92	5400.05	3333.14
48	without-noise	4306.6	4323.83	5166.71	3391.54	5101.002	3398.61
49	without-noise	4013.79	3979.33	4879.90	3130.67	4852.09	3167.23
50	without-noise	4065.48	4082.71	4847.70	3416.61	4795.19	3515.25
51	without-noise	4375.52	4306.6	5135.02	3791.84	5056.83	3793.58
52	without-noise	4289.39	4323.83	4897.30	3536.76	4865.89	3607.63
53	without-noise	4134.4	4134.4	4965.75	3275.7	4905.90	3379.58
54	without-noise	4134.4	4134.4	4913.35	3475.87	4814.92	3517.04
55	without-noise	4409.98	4341.06	4977.79	3476.4	4917.63	3503.77
56	without-noise	3841.51	3962.1	4750.51	2970.14	4663.77	3107.32
57	without-noise	4031.02	3944.87	4680.69	2979.95	4492.18	3135.74
58	without-noise	4323.8	4306.6	4988.60	3745.92	4904.51	3796.6
59	without-noise	4444.4	4341.06	5264.32	3954.8	5195.28	3955.93
60	without-noise	4082.7	4048.25	5047.79	3162.16	5011.35	3192.82

Individual	Condition	DF A note (kHz)	DF B note (kHz)	Upper limit of FB A note (kHz)	Lower limit of FB A note (kHz)	Upper limit of FB B note (kHz)	Lower limit of FB B note (kHz)
61	without-noise	4392.7	4427.21	5299.41	3382.4	5197.39	3358.5
62	without-noise	4237.72	4168.84	5347.06	3374.86	5249.56	3535.52
63	without-noise	4220.49	4203.28	5009.72	3042.34	4962.08	3142.57
64	without-noise	4277.9	4134.4	5439.56	3008.3	5242.27	3058.7
65	without-noise	4203.28	4134.4	5103.65	3224.36	5020.42	3338.22
66	without-noise	4289.38	4220.5	5107.62	3342.11	5006.63	3528.24
67	without-noise	4582.2	4593.8	5234.98	3431.29	5147.44	3616.8