

Acoustic niche partitioning in five Cuban frogs of the genus *Eleutherodactylus*

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Supplementary material

Supplementary Appendix 1

To assess the variability of diel calling patterns among the surveyed months, we evaluated similarity between pairs of months for each species using the Spearman's rank nonparametric correlation. Diel call patterns were rather constant in the study months, as shown by the correlation results (Supplementary Table S1 below).

In the same way, we evaluated overlap in temporal patterns between pairs of species in each month, and these results are presented in Supplementary Table S2. A similar pattern was present in each month, with the highest values of the temporal niche overlap in the pairs *E. guantanamera* - *E. gundlachi*, *E. auriculatus* - *E. cuneatus* and *E. gundlachi* - *E. cuneatus* and the lowest values in the pairs of *E. limbatus* with *E. guantanamera* and *E. gundlachi*.

Table A. Spearman's correlation coefficients of mean number of calling males between months in each *Eleutherodactylus* species studied in La Gran Piedra, Cuba.

	<i>E. auriculatus</i>	<i>E. cuneatus</i>	<i>E. guantanamera</i>	<i>E. gundlachi</i>	<i>E. limbatus</i>
February - March	0.50 ($P = 0.09$)	0.45 ($P = 0.13$)	0.83 ($P < 0.001$)	0.51 ($P = 0.09$)	0.74 ($P < 0.01$)
March - April	0.20 ($P = 0.52$)	0.75 ($P < 0.01$)	0.89 ($P < 0.001$)	0.66 ($P < 0.05$)	0.83 ($P < 0.01$)
April - May	0.22 ($P = 0.46$)	0.87 ($P < 0.001$)	0.82 ($P < 0.01$)	0.75 ($P < 0.01$)	0.71 ($P < 0.05$)

Table B. Mean values of vocal activity overlap between pairs of *Eleutherodactylus* species at La Gran Piedra, Cuba, in four months in 2003. Approximate 95% bootstrap confidence intervals are shown in parentheses.

	February	March	April	May
<i>E. guantanamera</i> x <i>E. auriculatus</i>	0.30 (0.19-0.43)	0.54 (0.44-0.65)	0.56 (0.46-0.67)	0.38 (0.28-0.49)
<i>E. guantanamera</i> x <i>E. limbatus</i>	0.30 (0.15-0.47)	0.18 (0.07-0.30)	0.25 (0.10-0.40)	0.14 (0.04-0.26)
<i>E. guantanamera</i> x <i>E. gundlachi</i>	0.68 (0.48-0.87)	0.77 (0.56-0.94)	0.83 (0.66-0.97)	0.75 (0.54-0.93)
<i>E. guantanamera</i> x <i>E. cuneatus</i>	0.64 (0.42-0.84)	0.62 (0.49-0.73)	0.72 (0.61-0.82)	0.63 (0.50-0.76)
<i>E. auriculatus</i> x <i>E. limbatus</i>	0.85 (0.68-0.98)	0.59 (0.45-0.73)	0.65 (0.50-0.79)	0.68 (0.52-0.83)
<i>E. auriculatus</i> x <i>E. gundlachi</i>	0.36 (0.16-0.57)	0.63 (0.45-0.80)	0.65 (0.49-0.80)	0.61 (0.41-0.80)
<i>E. auriculatus</i> x <i>E. cuneatus</i>	0.49 (0.26-0.71)	0.82 (0.70-0.92)	0.84 (0.73-0.94)	0.75 (0.62-0.87)
<i>E. limbatus</i> x <i>E. gundlachi</i>	0.38 (0.17-0.59)	0.28 (0.11-0.46)	0.34 (0.16-0.53)	0.37 (0.15-0.60)
<i>E. limbatus</i> x <i>E. cuneatus</i>	0.49 (0.27-0.71)	0.50 (0.35-0.65)	0.50 (0.34-0.66)	0.49 (0.34-0.65)
<i>E. gundlachi</i> x <i>E. cuneatus</i>	0.78 (0.54-0.97)	0.56 (0.37-0.76)	0.77 (0.60-0.91)	0.78 (0.59-0.95)