

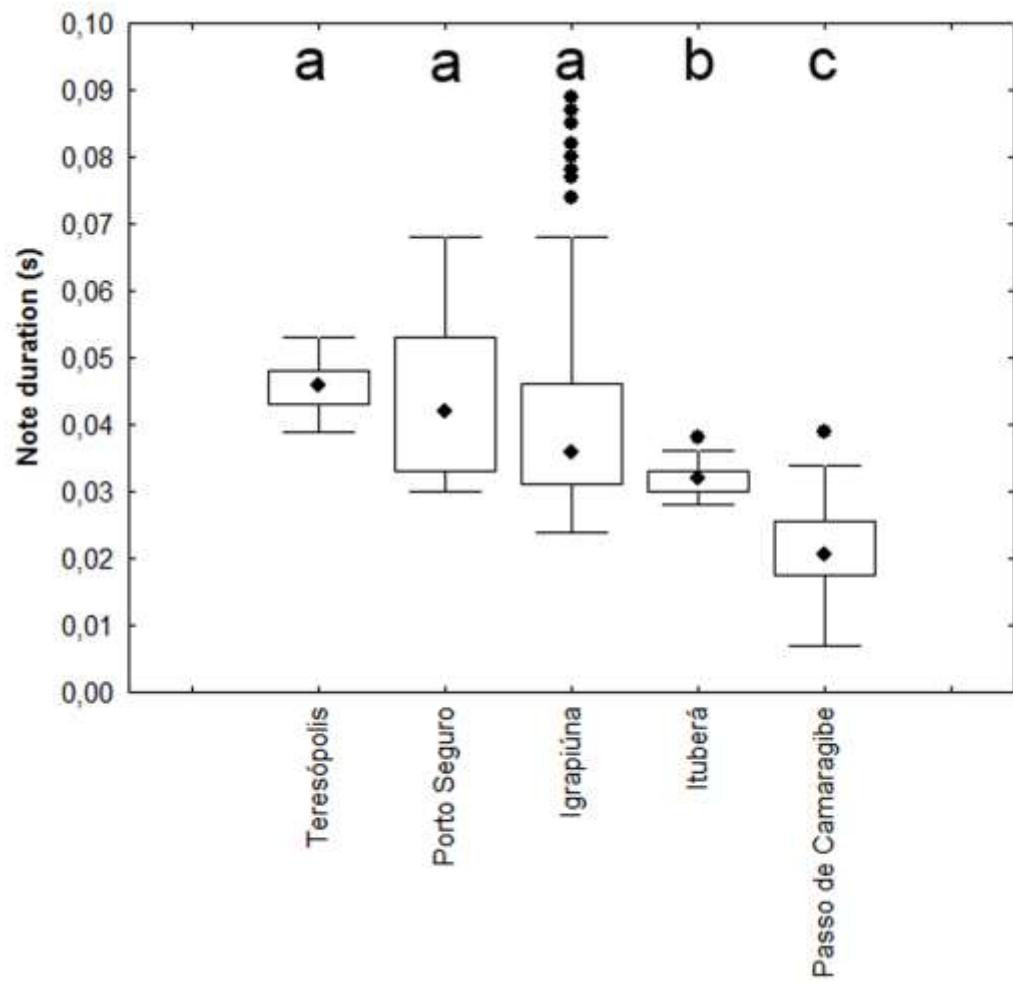
## Supplementary material

**Table S1.** List of acoustic traits analyzed and the Raven functions used for their measurements.

<b>Acoustic trait</b>	<b>Raven function for measurement</b>
Note duration (s)	Delta time
Minimum frequency (Hz)	Frequency 5% (minimum frequency, ignoring 5% below the total energy in the selected call)
Peak of dominant frequency (Hz)	Peak frequency
Maximum frequency (Hz)	Frequency 95% (maximum frequency, ignoring 5% above the total energy in the selected call)
Frequency bandwidth (as maximum subtracted by minimum) (Hz)	Bandwidth 90% (band frequency that includes 90% of the energy of the sound)

**Table S2.** Results of Fisher LSD analysis comparing notes duration among Atlantic Forest Rocket Frogs populations.

Interaction	Difference	Statistic test	P level
Igrapiúna x Ituberá	0.00997	3.452	<b>0.00063</b>
Igrapiúna x Passo de Camaragibe	0.02005	9.463	<b>0.E+0</b>
Igrapiúna x Porto Seguro	-0.00228	0.967	0.33381
Igrapiúna x Teresópolis	-0.00412	1.478	0.00251
Ituberá x Passo de Camaragibe	0.01008	3.047	0.14019
Ituberá x Porto Seguro	-0.01225	3.537	<b>0.00047</b>
Ituberá x Teresópolis	-0.01409	3.738	<b>0.00022</b>
Passo de Camaragibe x Porto Seguro	-0.02233	7.825	<b>8.01581E-14</b>
Passo de Camaragibe x Teresópolis	-0.02417	7.512	<b>6.24167E-13</b>
Porto Seguro x Teresópolis	-0.00184	0.544	0.58663



**Figure S1.** Note duration variation among Atlantic Forest Rocket Frogs populations. Box plot configuration = diamond: median, whiskers: non-outlier ranges, circles: outliers, box: 25% - 75% of data distribution. Letters a, b and c indicate statistical differences.