

Supplemental material

Supplementary Table 1S. Spectral and temporal variables measured for the stridulatory disturbance signal of winged (brachypterous and macropterous) males of *M. spinolai* (mean \pm SD).

Variable	Chirp	Male brachypterous <i>n</i> = 2	Male macropterous <i>n</i> = 4
First quartile frequency (Hz)	Short	1769.5 \pm 215.5	1816.4 \pm 981.3
	Long	1610.1 \pm 56.3	1365.2 \pm 345.4
Third quartile frequency (Hz)	Short	3550.8 \pm 1839.6	4027.3 \pm 1975.2
	Long	2109.4 \pm 66.3	2457.4 \pm 549.9
Inter-quartile frequency (Hz)	Short	1781.2 \pm 2055.0	2210.9 \pm 1033.0
	Long	499.3 \pm 10.0	1092.2 \pm 568.6
Dominant frequency (Hz)	Short	1687.5 \pm 331.5	2125.0 \pm 1202.8
	Long	1797.7 \pm 56.4	1795.3 \pm 230.3
Duration (ms)	Short	15.57 \pm 7.26	10.42 \pm 0.83
	Long	25.52 \pm 15.30	22.31 \pm 3.97
Inter-chirp interval (ms)		2.27 \pm 1.87	2.71 \pm 1.13
Inter-syllable interval (ms)		4.51 \pm 2.65	3.43 \pm 1.31
Syllable repetition rate (syllables/s)		29.96 \pm 20.83	26.68 \pm 4.09
Short/long chirp amplitude ratio (dB)		1.45 \pm 1.85	1.03 \pm 2.30

Supplementary Figure 1S. 3D projection of the stridulatory sulcus.