

Populati on	Delt a time 1a (s)	Low freq 1a (kHz)	High freq 1a (kHz)	Band w 90% 1a (kHz)	Cent re freq 1a (kHz)	Delt a time 1b (s□)	Low freq 1b (kHz)	High freq 1b (kHz)	Band w 90% 1b (kHz)	Cent re freq 1b (kHz)	Total durati on (s□)	Samp le sizes
Mt Sundoro, Java	0.18 9± 0.02 0 (0.16 3 – 0.21 9)	2.84 3± 0.27 7 (2.43 2 – 3.34 3)	4.12 2± 0.24 0 (3.79 8 – 4.54 6)	0.778 ± 0.033 (0.75 0 – 0.825)	3.507 ± 0.246 (3.18 8 – 3.938)	0.08 7± 0.00 9 (0.07 0 – 0.09 6)	2.89 0± 0.24 7 (2.51 5 – 3.36 0)	3.97 8± 0.26 0 (3.68 8 – 4.41 0)	0.654 ± 0.060 (0.56 3 – 0.713)	3.441 ± 0.254 (3.18 8 – 3.900)	0.282 ± 0.021 (0.257 – 0.312)	8
Yang highland s, Java	0.28 1	2.16 9	4.51 3	0.975	3.675	0.08 9	2.03 0	4.25 8	0.863	3.413	0.374	1
Mt Merapi, Java	0.26 1	1.98 5	3.85 5	0.825	3.263	0.05 1	1.82 7	2.84 1	0.638	2.325	0.317	1
Mt Lawu, Java	0.28 8± 0.02 0 (0.27 4 – 0.30 2)	2.26 4± 0.13 9 (2.16 6 – 2.36 2)	3.98 8± 0.13 2 (3.89 5 – 4.08 2)	0.806 ± 0.027 (0.78 8 – 0.825)	3.356 ± 0.080 (3.30 0 – 3.413)	0.05 0± 0.00 3 (0.04 8 – 0.05 2)	2.02 6± 0.00 1 (2.02 6 – 2.02 7)	3.15 5± 0.07 8 (3.10 0 – 3.21 0)	0.638 ± 0.106 (0.56 3 – 0.713)	2.606 ± 0.027 (2.58 8 – 2.625)	0.342 ± 0.017 (0.330 – 0.354)	2
Mt Bromo, Java	0.19 3± 0.03 2 (0.16 3 – 0.22 7)	2.53 6± 0.04 5 (2.48 4 – 2.56 5)	3.90 8± 0.21 7 (3.66 2 – 4.06 9)	0.875 ± 0.078 (0.78 8 – 0.938)	3.250 ± 0.185 (3.03 8 – 3.375)	0.08 0± 0.00 7 (0.07 5 – 0.08 7)	2.62 8± 0.09 3 (2.56 6 – 2.73 6)	3.78 4± 0.12 3 (3.64 6 – 3.88 2)	0.650 ± 0.078 (0.56 3 – 0.713)	3.188 ± 0.000 (3.18 8 – 3.188)	0.277 ± 0.028 (0.254 – 0.309)	3
Ijen, East Java	0.21 7± 0.02 2 (0.17 7 – 0.24 0)	3.09 4± 0.40 9 (2.19 6 – 3.51 0)	4.48 9± 0.33 5 (3.78 2 – 4.75 9)	0.848 ± 0.080 (0.75 0 – 0.984)	3.840 ± 0.380 (3.00 0 – 4.200)	0.08 2± 0.02 0 (0.05 4 – 0.10 3)	2.79 4± 0.36 5 (2.12 4 – 3.14 2)	4.17 8± 0.28 3 (3.59 7 – 4.42 0)	0.746 ± 0.156 (0.56 3 – 0.938)	3.450 ± 0.263 (2.88 8 – 3.750)	0.306 ± 0.034 (0.244 – 0.343)	9
Bali	0.29 4± 0.03 4 (0.25 3 – 0.35 7)	2.09 1± 0.09 8 (1.93 5 – 2.27 8)	4.10 8± 0.44 1 (3.66 7 – 5.16 7)	1.062 ± 0.358 (0.78 8 – 2.063)	3.293 ± 0.314 (3.00 0 – 4.125)	0.06 1± 0.01 0 (0.04 9 – 0.07 5)	1.83 0± 0.07 2 (1.68 9 – 1.96 1)	3.23 5± 0.10 6 (2.99 1 – 3.39 8)	0.799 ± 0.081 (0.60 0 – 0.863)	2.558 ± 0.112 (2.32 5 – 2.625)	0.363 ± 0.040 (0.306 – 0.439)	10

Table S4. Univariate measurements of song variables of different *L. montis* populations. 1a – lowamp part of principal note; 1b – highamp part of principal note; see Fig. 2 for further explanation of terms.