

**Table S8.** Parameters of boom calls of *Cercopithecus hamlyni* and *Cercopithecus lomamiensis*.

PARAMETER	<i>C. hamlyni</i> (n=43)		<i>C. lomamiensis</i> (n=6)		t-test	
	Mean $\pm$ SD	Range	Mean $\pm$ SD	Range	t	p
Start Freq (Hz)	204.8 $\pm$ 17.5	172 – 247	215 $\pm$ 9.8	204 – 226	-2.11	0.061
End Freq (Hz)	188.4 $\pm$ 14.9	161 – 215	197.8 $\pm$ 8.9	193 – 215	-2.90	0.054
Low freq (Hz)	173.6 $\pm$ 16.3	147 – 210	181.9 $\pm$ 10.4	172 – 201	-1.68	0.127
High freq (Hz)	220.8 $\pm$ 16.9	189 – 162	234.3 $\pm$ 9.7	220 – 246	-2.85	0.017 <sup>s</sup>
Q1 freq (Hz)	190.0 $\pm$ 16.1	162 – 226	199.2 $\pm$ 9.0	194 – 215	-2.07	0.065
Q3 Freq (Hz)	204.6 $\pm$ 15.4	172 – 237	213.5 $\pm$ 8.1	205 – 226	-2.21	0.049 <sup>s</sup>
Center Freq (Hz)	197.1 $\pm$ 15.3	172 – 237	204.6 $\pm$ 9.6	194 – 215	-1.64	0.134
IQR bandwidth (Hz)	14.5 $\pm$ 5.7	10.8 – 32.3	14.4 $\pm$ 5.5	11 – 22	0.07	0.946
IQR Dur (secs)	0.15 $\pm$ 0.05	0.1 – 0.2	0.13 $\pm$ 0.05	0.1 – 0.2	0.69	0.514
Max Freq (Hz)	198.3 $\pm$ 15.5	172 – 237	204.6 $\pm$ 6.8	194 – 215	-1.71	0.109
Duration (secs)	0.37 $\pm$ 0.07	0.25 – 0.49	0.34 $\pm$ 0.06	0.22 – 0.39	1.24	0.254
Slope: Total (Hz/sec)	-45.0 $\pm$ 22.7	-98.5 – 0.0	-52.3 $\pm$ 28.12	-105 – -29	0.61	0.563
Slope: 1st quart (Hz/sec)	-166.2 $\pm$ 112.3	-646.9 – -53.5	-179.9 $\pm$ 78.8	-315 – -91.5	0.38	0.717
Slope: Middle (Hz/sec)	101.5 $\pm$ 54.2	36 – 216	87.2 $\pm$ 37.6	54 – 135	0.82	0.437
Slope: 4th quart (Hz/sec)	-205.3 $\pm$ 164.4	-921 – 0	-306.5 $\pm$ 185.1	-528 – -105	1.27	0.250
Delta Freq (Hz)	47.2 $\pm$ 9.7	35.3 – 77.8	52.4 $\pm$ 9.37	39.5 – 65.4	-1.28	0.245

**Note:** s = significant difference (p<0.05).