

## Appendix 1

Table A1. Acoustic parameters as defined in warbleR package version 1.1.26 (Araya-Salas & Smith-Vidaurre, 2017).

Acoustic parameter (unit)	Definitions
bottom.freq (kHz)	Bottom frequency limit of selection.
duration (s)	Length of signal.
entropy	Spectrographic entropy. Product of time and spectral entropy sp.ent * time.ent.
freq.IQR (kHz)	Interquartile frequency range. Frequency range between 'freq.Q25' and 'freq.Q75'.
freq.median (kHz)	Median frequency. The frequency at which the signal is divided in two frequency intervals of equal energy.
freq.Q25 (kHz)	First quartile frequency. The frequency at which the signal is divided in two frequency intervals of 25% and 75% energy respectively.
freq.Q75 (kHz)	Third quartile frequency. The frequency at which the signal is divided in two frequency intervals of 75% and 25% energy respectively.
kurt	Kurtosis. Peakedness of the spectrum.
meandom	Average of dominant frequency measured across the acoustic signal.
meanfreq (kHz)	Mean frequency. Mean of frequency spectrum (i.e. weighted average of frequency by amplitude within supplied band pass).
mindom	Minimum of dominant frequency measured across the acoustic signal.
sd (kHz)	Standard deviation of frequency.
sfm	Spectral flatness. Similar to sp.ent Pure tone ~ 0; noisy ~ 1.
skew	skewness. Asymmetry of the spectrum.
sp.ent	Spectral entropy. Energy distribution of the frequency spectrum. Pure tone ~ 0; noisy ~ 1.
time.ent	Time entropy. Energy distribution on the time envelope. Pure tone ~ 0; noisy ~ 1.
time.IQR (s)	Interquartile time range. Time range between 'time.Q25' and 'time.Q75'.
time.median (s)	Median time. The time at which the signal is divided in two time intervals of equal energy.
time.Q25 (s)	First quartile time. The time at which the signal is divided in two time intervals of 25% and 75% energy, respectively.
time.Q75 (s)	Third quartile time. The time at which the signal is divided in two time intervals of 75% and 25% energy, respectively.
top.freq (kHz)	Top frequency limit of selection.