

Appendix S2 - Reference calls used in the analysis of detectability

For the analysis of detectability, 32 reference call sequences of 21 potential target species were selected from Russ (2021) and Middleton et al. (2022) and played back on an ultrasound speaker at real-time speed. These full-spectrum sequences included echolocation and social calls. Here we provide the original reference call sequence list, detailing emitting species, call type (including social call subtype, where available), selected interval (with call repetition information), and any volume adjustments.

source	species	original file name	call type	interval used (ms)	volume
Middleton et al. (2022)	<i>Eptesicus nilssonii</i>	8.7.19 - Northern bat - FS - K Isaksen 2013.wav	social (C)	0-1300	same
Middleton et al. (2022)	<i>Eptesicus serotinus</i>	8.7.04 - Serotine - FS - M Van De Sijpe 2021.wav	social (C)	63000-64000 (x3)	up
Middleton et al. (2022)	<i>Eptesicus serotinus</i>	8.7.07 - Serotine - FS - N Middleton A Froud K French 2021.wav	social	2500-4500	up
Russ (2021)	<i>Hypsugo savii</i>	8.36.6 Hypsugo savii - Social song - Leonardo Ancillotto - Italy.wav	social	0-1500	down
Russ (2021)	<i>Nyctalus lasiopterus</i>	8.22.1 and 2 Nyctalus lasiopterus - Echolocation calls of a bat flying at altitude - Marc van de Sijpe - France.wav	echolocation	4500-12500	up
Russ (2021)	<i>Nyctalus leisleri</i>	8.23.1 Nyctalus leisleri - Echolocation 13 - Jon Russ - Northern Ireland.wav	echolocation	whole	down
Middleton et al. (2022)	<i>Nyctalus leisleri</i>	8.4.18 - Leislars - FS - M Aston 2021.wav	social (C.d1)	3500-5500 (x3)	down
Middleton et al. (2022)	<i>Nyctalus leisleri</i>	8.4.19 - Leislars - FS - A Hargreaves 2013.wav	social (D1)	150-400 (x3)	up
Middleton et al. (2022)	<i>Nyctalus leisleri</i>	8.4.22 - Leislars - FS - H Pearce 2021.wav	social (D2)	100-350 (x3)	up
Russ (2021)	<i>Nyctalus noctula</i>	8.21.2 Nyctalus noctula - Echolocation open habitat 2 - Jon Russ- United Kingdom.wav	echolocation	whole	up
Middleton et al. (2022)	<i>Nyctalus noctula</i>	8.4.01 - Noctule - FS - N Middleton A Froud K French 2021.wav	social (C.d1)	whole	same
Russ (2021)	<i>Nyctalus noctula</i>	8.21.9 Nyctalus noctula - Social 8 - David Lee- United Kingdom.wav	social (D2)	350-600_1400-1600_2750-2950	same
Russ (2021)	<i>Nyctalus noctula</i>	8.21.16 Nyctalus noctula - Social 9 - Jon Russ- United Kingdom.wav	social	1000-2000 (x3)	up
Russ (2021)	<i>Pipistrellus kuhlii</i>	8.34.9 Pipistrellus kuhlii - Social calls - Marc van de Sijpe - France.wav	social (D)	800-1000 (x3)	same
Middleton et al. (2022)	<i>Pipistrellus nathusii</i>	8.6.27 - Nathusius pipistrelle - FS - N Middleton A Froud K French 2021.wav	social (D)	whole (x3)	down
Middleton et al. (2022)	<i>Pipistrellus pipistrellus</i>	8.6.02 - Common pipistrelle - FS - M Aston 2021.wav	social (D)	4400-4700 (x3)	same
Middleton et al. (2022)	<i>Pipistrellus pygmaeus</i>	8.6.12 - Soprano pipistrelle - FS - N Middleton A Froud K French 2021.wav	social (D)	0-650 (x3)	same
Middleton et al. (2022)	<i>Rhinolophus ferrumequinum</i>	8.2.03 - Greater horseshoe - FS - N Middleton A Froud K French 2021.wav	social	600-2100	same
Russ (2021)	<i>Tadarida teniotis</i>	8.44.1 Tadarida teniotis - Typical echolocation calls - Leonardo Ancillotto - Italy.wav	echolocation	0-2000 (x3)	same
Russ (2021)	<i>Tadarida teniotis</i>	8.44.6 Tadarida teniotis - Social calls recorded in flight 2 - Yves Bas - France.wav	social	900-1900 (x3)	same
Russ (2021)	<i>Tadarida teniotis</i>	8.44.7 Tadarida teniotis - V-shaped social calls - Marc van de Sijpe - France.wav	social	3000-8000	up
Middleton et al. (2022)	<i>Vespertilio murinus</i>	8.5.02 - Parti-coloured bat - FS - I Kaergaard 2020.wav	social (D)	1100-3500	same
Middleton et al. (2022)	<i>Barbastella barbastellus</i>	8.9.13 - Barbastelle - FS - P Briggs H Pearce B Briggs 2020.wav	social	3550-3750 (x3)	down
Russ (2021)	<i>Myotis bechsteinii</i>	8.17.10 Myotis bechsteinii - Social call at roost 2 - Marc van de Sijpe - Germany.wav	social	1500-4000	up
Russ (2021)	<i>Myotis dasycneme</i>	8.7.9 Myotis dasycneme - Social calls from maternity colony - Carola van den Tempel - Netherlands.wav	social	2500-3700 (x3)	down
Russ (2021)	<i>Myotis myotis</i>	8.18.7 Myotis myotis - Male song - Joanna Furmankiewicz - Poland.wav	social	0-400 (x3)	same
Russ (2021)	<i>Nyctalus lasiopterus</i>	8.22.3 Nyctalus lasiopterus - Flying in semi-clutter - Marc van de Sijpe - France.wav	echolocation	6500-9700	same
Russ (2021)	<i>Pipistrellus maderensis</i>	8.35.11 Pipistrellus maderensis - Social call 3 - SÇrgio Teixeira - Madeira.wav	social	whole (x3)	down
Middleton et al. (2022)	<i>Plecotus auritus</i>	8.8.03 - Brown long-eared - FS - I Kaergaard 2020.wav	social	7000-9000	up
Middleton et al. (2022)	<i>Plecotus austriacus</i>	8.8.19 - Grey long-eared - FS - A Hall 2021.wav	social	500-2500	up
Russ (2021)	<i>Plecotus sardus</i>	8.40.2 Plecotus sardus - Social calls - Mauro Mucedda - Sardinia.wav	social	whole (x3)	same
Russ (2021)	<i>Vespertilio murinus</i>	8.29.9 Vespertilio murinus - Social calls 3 not common - Bengt Edqvist - Sweden.wav	social	2000-4000	up