Supplement 1

Table S1. To identify soniferous or potentially soniferous species present in Mozambican coral reefs, a bibliographic review of soniferous species was conducted using the fauna reported by Pereira et al. (2003) as a starting point. For the fish species reported in the study area, a literature search was conducted to determine if they had been reported as soniferous. For fish species not described as soniferous, they were classified as potentially soniferous if belonging to families containing soniferous species (as reported by Rice et al., 2022).

Genera	Species	Family	Order	Soniferous classification	Reference of soniferous species
Acanthurus	*dussumieri*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Acanthurus	*leucosternon*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Acanthurus	*lineatus*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Acanthurus	*nigrofuscus*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Acanthurus	*tennenti*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Acanthurus	*triostegus*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Ctenochaetus	*strigosus*	Acanthuridae	Acanthuriformes	Soniferous	Tricas & Boyle (2014)
Naso	*annulatus*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Naso	*brevirostris*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Naso	*lituratus*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Naso	*unicornis*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Paracanthurus	*hepatus*	Acanthuridae	Acanthuriformes	Soniferous	Fish (1948)
Zebrasoma	*scopas*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Zebrasoma	*desjardini*	Acanthuridae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*lunula*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*melannotus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*mertensii*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*meyeri*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*auriga*	Chaetodontidae	Acanthuriformes	Soniferous	Tricas & Boyle (2015)
Chaetodon	*bennetti*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*blackburnii*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*dolosus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*falcula*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*guttatissimus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	

Chaetodon	*interruptus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*kleinii*	Chaetodontidae	Acanthuriformes	Soniferous	Tricas & Boyle (2015)
Chaetodon	*lineolatus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*trifascialis*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*trifasciatus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*vagabundus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Chaetodon	*xanthocephalus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Forcipiger	*flavissimus*	Chaetodontidae	Acanthuriformes	Soniferous	Tricas & Boyle (2014, 2015)
Hemitaurichthys	*zoster*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	Boyle & Tricas (2011)
Heniochus	*acuminatus*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Heniochus	*monoceros*	Chaetodontidae	Acanthuriformes	Potentially Soniferous	
Zanclus	*canescens*	Zanclidae	Acanthuriformes	Potentially Soniferous	
Gymnothorax	*favagineus*	Muraenidae	Anguilliformes	Non-soniferous	
Gymnothorax	*meleagris*	Muraenidae	Anguilliformes	Non-soniferous	
Echidna	*zebra*	Muraenidae	Anguilliformes	Non-soniferous	
Siderea	*grisea*	Muraenidae	Anguilliformes	Non-soniferous	
Synodus	*indicus*	Synodontidae	Aulopiformes	Non-soniferous	
Tylosurus	*crocodilus*	Belonidae	Beloniformes	Potentially Soniferous, just qualitative reports	
Caranx	*melampygus*	Carangidae	Carangiformes	Potentially Soniferous	
Scomberoides	*lysan*	Carangidae	Carangiformes	Potentially Soniferous	
Triaenodon	*obesus*	Carcharhinidae	Carcharhiniformes	Non-soniferous	
Kyphosus	*sp.*	Kyphosidae	Centrarchiformes	Potentially Soniferous	
Platax	*teira*	Ephippidae	Ephippiformes	Potentially Soniferous	
Platax	*orbicularis*	Ephippidae	Ephippiformes	Potentially Soniferous	
Ptereleotris	*evides*	Gobiidae	Gobiiformes	Potentially Soniferous	
Myripristis	*murdjan*	Holocentridae	Holocentriformes	Soniferous	Chen (2006)
Neoniphon	*sammara*	Holocentridae	Holocentriformes	Soniferous	Chen (2006) Parmentier et al. (2011) Tricas & Boyle (2014)
Sargocentron	*caudimaculatum*	Holocentridae	Holocentriformes	Potentially Soniferous	
Sargocentron	*diadema*	Holocentridae	Holocentriformes	Soniferous	Parmentier et al. (2011)
Sargocentron	*spiniferum*	Holocentridae	Holocentriformes	Soniferous	Parmentier et al. (2011)

Sphyraena	*barracuda*	Sphyraenidae	Incertae_sedis_in_Carangaria	Soniferous	
Caesio	*tile*	Caesionidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous, just qualitative reports	
Caesio	*xanthonota*	Caesionidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous, just qualitative reports	
Caesio	*lunaris*	Caesionidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous, just qualitative reports	
Caesio	*caerulaureus*	Caesionidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous, just qualitative reports	
Plectorhinchus	*sordidus*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Diagramma	*pictum*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plectorhinchus	*playfairi*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plectorhinchus	*flavomaculatus*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plectorhinchus	*gibbosus*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plectorhinchus	*plagiodesmus*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plectorhinchus	*gaterinus*	Haemulidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*lutjanus*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*gibbus*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*fulviflamma*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*bohar*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Macolor	*niger*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*monostigma*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Aprion	*virescens*	Lutjanidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Lutjanus	*kasmira*	Lutjanidae	Incertae_sedis_in_Eupercaria	Soniferous	Tricas & Boyle (2014)
Centropyge	*bispinosus*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Pomacanthus	*semicirculatus*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Pomacanthus	*imperator*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Soniferous	Thresher (1982) (just description of behaviour)
Apolemichthys	*trimaculatus*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Soniferous	Tricas & Boyle (2014)
Pomacanthus	*chrysurus*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Centropyge	*acanthops*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Pygoplites	*diacanthus*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Centropyge	*multispinis*	Pomacanthidae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	

Scarus	*rubroviolaceus*	Scaridae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Scarus	*scaber*	Scaridae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Scarus	*ghobban*	Scaridae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Scarus	*sordidus*	Scaridae	Incertae_sedis_in_Eupercaria	Potentially Soniferous	
Plagiotremus	*tapeinosoma*	Blenniidae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Cirripectes	*sp.*	Blenniidae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Plagiotremus	*rhynorhynchus*	Blenniidae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Meiacanthus	*mossambicus*	Blenniidae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Plectroglyphidodon	*dickii*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Abudefduf	*sexfasciatus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Pomacentrus	*sulfureus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Pomacentrus	*trichrous*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Abudefduf	*vaigiensis*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Tricas & Boyle (2014)
Abudefduf	*natalensis*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Neopomacentrus	*cyanomos*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Amphiprion	*akallopisos*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Parmentier et al. (2005), Colleye et al. (2009)
Plectroglyphidodon	*lacrymatus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Parmentier et al. (2006)
Amphiprion	*latifasciatus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Current study
Pomacentrus	*caeruleus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chromis	*ternatensis*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chromis	*viridis*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Amorim (1996)
Dascyllus	*carneus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chrysiptera	*biocellata*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Neoglyphidodon	*melas*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Abudefduf	*sparoides*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chromis	*agilis*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Dascyllus	*trimaculatus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Luh & Mok (1986)
Plectroglyphidodon	*leucozonus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chromis	*nigrura*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Abudefduf	*sordidus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Lobel & Kerr (1999)
Dascyllus	*aruanus*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Parmentier et al. (2006)

Chromis	*weberi*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Soniferous	Current study
Chromis	*dimidiata*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Chrysiptera	*unimaculata*	Pomacentridae	Incertae_sedis_in_Ovalentaria	Potentially Soniferous	
Cheilodipterus	*quinquelineatus*	Apogonidae	Kurtiformes	Potentially Soniferous, just qualitative reports	
Cheilodipterus	*artus*	Apogonidae	Kurtiformes	Potentially Soniferous, just qualitative reports	
Apogon	*aureus*	Apogonidae	Kurtiformes	Potentially Soniferous, just qualitative reports	
Labroides	*dimidiatus*	Labridae	Labriformes	Potentially Soniferous	
Anampses	*lineatus*	Labridae	Labriformes	Potentially Soniferous	
Anampses	*twistii*	Labridae	Labriformes	Potentially Soniferous	
Thalassoma	*amblycephalum*	Labridae	Labriformes	Potentially Soniferous	
Cheilinus	*trilobatus*	Labridae	Labriformes	Potentially Soniferous	
Cheilinus	*fasciatus*	Labridae	Labriformes	Potentially Soniferous	
Epibulus	*insidiator*	Labridae	Labriformes	Potentially Soniferous	
Thalassoma	*hardwicke*	Labridae	Labriformes	Potentially Soniferous	
Coris	*gaimard*	Labridae	Labriformes	Potentially Soniferous	
Anampses	*meleagrides*	Labridae	Labriformes	Potentially Soniferous	
Halichoeres	*scapularis*	Labridae	Labriformes	Potentially Soniferous	
Hemigymnus	*fasciatus*	Labridae	Labriformes	Potentially Soniferous	
Labroides	*bicolor*	Labridae	Labriformes	Potentially Soniferous	
Halichoeres	*hortulanus*	Labridae	Labriformes	Potentially Soniferous	
Stethojulis	*strigiventer*	Labridae	Labriformes	Potentially Soniferous	
Coris	*aygula*	Labridae	Labriformes	Potentially Soniferous	
Coris	*caudimacula*	Labridae	Labriformes	Potentially Soniferous	
Anampses	*caeruleopunctatus*	Labridae	Labriformes	Potentially Soniferous	
Thalassoma	*hebraicum*	Labridae	Labriformes	Potentially Soniferous	
Thalassoma	*lunare*	Labridae	Labriformes	Potentially Soniferous	
Gomphosus	*caeruleus*	Labridae	Labriformes	Potentially Soniferous	
Halichoeres	*cosmetus*	Labridae	Labriformes	Potentially Soniferous	
Bodianus	*axilaris*	Labridae	Labriformes	Potentially Soniferous	
Bodianus	*diana*	Labridae	Labriformes	Potentially Soniferous	

Cheilinus	*chlorourus*	Labridae	Labriformes	Potentially Soniferous	
Coris	*formosa*	Labridae	Labriformes	Potentially Soniferous	
Novaculichthys	*taeniourus*	Labridae	Labriformes	Potentially Soniferous	
Cymolutes	*praetextatus*	Labridae	Labriformes	Potentially Soniferous	
Bodianus	*anthioides*	Labridae	Labriformes	Potentially Soniferous	
Cheilio	*inermis*	Labridae	Labriformes	Potentially Soniferous	
Parupeneus	*cyclostomus*	Mullidae	Mulliformes	Potentially Soniferous	
Mulloidichthys	*flavolineatus*	Mullidae	Mulliformes	Potentially Soniferous	
Mulloidichthys	*vanicolensis*	Mullidae	Mulliformes	Potentially Soniferous	
Parupeneus	*indicus*	Mullidae	Mulliformes	Potentially Soniferous	
Parupeneus	*macronema*	Mullidae	Mulliformes	Potentially Soniferous	
Parupeneus	*rubescens*	Mullidae	Mulliformes	Potentially Soniferous	
Parupeneus	*bifasciatus*	Mullidae	Mulliformes	Potentially Soniferous	
Parupeneus	*barberinus*	Mullidae	Mulliformes	Potentially Soniferous	
Pempheris	*adusta*	Pempheridae	Pempheriformes	Potentially Soniferous	
Paracirrhites	*arcatus*	Cirrhitidae	Perciformes	Non-soniferous	
Cirrhitichthys	*oxycephalus*	Cirrhitidae	Perciformes	Non-soniferous	
Paracirrhites	*forsteri*	Cirrhitidae	Perciformes	Non-soniferous	
Monotaxis	*grandoculis*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Lethrinus	*harak*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Gymnocranius	*griseus*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Gnathodentex	*aurolineatus*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Lethrinus	*obsoletus*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Lethrinus	*nebulosus*	Lethrinidae	Perciformes	Potentially Soniferous, just qualitative reports	
Malacanthus	*latovittatus*	Malacanthidae	Perciformes	Non-soniferous	
Monodactylus	*argenteus*	Monodactylidae	Perciformes	Non-soniferous	
Scolopsis	*ghanam*	Nemipteridae	Perciformes	Non-soniferous	
Parapercis	*hexophtalma*	Pinguipedidae	Perciformes	Non-soniferous	

Parapercis	*punctulata*	Pinguipedidae	Perciformes	Non-soniferous	
Papilloculiceps	*longiceps*	Platycephalidae	Perciformes	Non-soniferous	
Platycephalus	*indicus*	Platycephalidae	Perciformes	Non-soniferous	
Priacanthus	*hamrur*	Priacanthidae	Perciformes	Potentially Soniferous	
Heteropriacanthus	*cruentatus*	Priacanthidae	Perciformes	Potentially Soniferous	
Pseudochromis	*dutoiti*	Pseudochromidae	Perciformes	Non-soniferous	
Pterois	*miles*	Scorpaenidae	Perciformes	Soniferous	Beattie et al. (2017), Schärer-Umpierre et al. (2019)
Synanceia	*verrucosa*	Scorpaenidae	Perciformes	Potentially Soniferous	
Scorpaenopsis	*venosa*	Scorpaenidae	Perciformes	Potentially Soniferous	
Epinephelus	*merra*	Serranidae	Perciformes	Potentially Soniferous	
Gracila	*albomarginata*	Serranidae	Perciformes	Potentially Soniferous	
Cephalopholis	*miniata*	Serranidae	Perciformes	Potentially Soniferous	
Epinephelus	*rivulatus*	Serranidae	Perciformes	Potentially Soniferous	
Epinephelus	*tukula*	Serranidae	Perciformes	Potentially Soniferous	
Plectropomus	*laevis*	Serranidae	Perciformes	Potentially Soniferous	
Epinephelus	*malabaricus*	Serranidae	Perciformes	Potentially Soniferous	
Pseudanthias	*evansi*	Serranidae	Perciformes	Potentially Soniferous	
Epinephelus	*fasciatus*	Serranidae	Perciformes	Potentially Soniferous	
Cephalopholis	*nigripinnis*	Serranidae	Perciformes	Potentially Soniferous	
Cephalopholis	*argus*	Serranidae	Perciformes	Soniferous	Tricas & Boyle (2014)
Epinephelus	*flavocaeruleus*	Serranidae	Perciformes	Potentially Soniferous	
Pseudanthias	*squamipinnis*	Serranidae	Perciformes	Potentially Soniferous	
Epinephelus	*hexagonatus*	Serranidae	Perciformes	Potentially Soniferous	
Aethaloperca	*rogaa*	Serranidae	Perciformes	Potentially Soniferous	
Siganus	*sutor*	Siganidae	Perciformes	Non-soniferous	
Plotosus	*lineatus*	Plotosidae	Siluriformes	Potentially Soniferous, just qualitative reports	
Rhabdosargus	*thorpei*	Sparidae	Spariformes	Potentially Soniferous	
Rhabdosargus	*sarba*	Sparidae	Spariformes	Potentially Soniferous	
Aulostomus	*chinensis*	Aulostomidae	Syngnathiformes	Non-soniferous	
Aeoliscus	*strigatus*	Centriscidae	Syngnathiformes	Potentially Soniferous, just qualitative reports	

Fistularia	*commersonii*	Fistulariidae	Syngnathiformes	Non-soniferous	
Corythoichthys	*sp.*	Syngnathidae	Syngnathiformes	Potentially Soniferous	
Balistapus	*undulatus*	Balistidae	Tetraodontiformes	Soniferous	Raick et al. (2018)
Balistoides	*conspicillum*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Melichthys	*niger*	Balistidae	Tetraodontiformes	Soniferous	Tricas & Boyle (2014)
Pseudobalistes	*fuscus*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Balistoides	*viridescens*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Rhinecanthus	*rectangulus*	Balistidae	Tetraodontiformes	Soniferous	Raick et al. (2018)
Sufflamen	*bursa*	Balistidae	Tetraodontiformes	Soniferous	Tricas & Boyle (2014)
Sufflamen	*chrysopterus*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Rhinecanthus	*aculeatus*	Balistidae	Tetraodontiformes	Soniferous	Raick et al. (2018)
Odonus	*niger*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Sufflamen	*fraenatum*	Balistidae	Tetraodontiformes	Potentially Soniferous	
Diodon	*liturosus*	Diodontidae	Tetraodontiformes	Potentially Soniferous	
Cantherhines	*pardalis*	Monacanthidae	Tetraodontiformes	Potentially Soniferous	
Paraluteres	*prionurus*	Monacanthidae	Tetraodontiformes	Potentially Soniferous	
Pervagor	*janthinosoma*	Monacanthidae	Tetraodontiformes	Potentially Soniferous	
Aluteres	*scriptus*	Monacanthidae	Tetraodontiformes	Potentially Soniferous	
Oxymonacanthus	*longirostris*	Monacanthidae	Tetraodontiformes	Potentially Soniferous	
Ostracion	*cubicus*	Ostraciidae	Tetraodontiformes	Soniferous	Parmentier et al. (2019)
Ostracion	*meleagris*	Ostraciidae	Tetraodontiformes	Soniferous	Lobel (1996), Parmentier et al. (2019)
Canthigaster	*solandri*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Canthigaster	*valentini*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Canthigaster	*bennetti*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Arothron	*hispidus*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Arothron	*mappa*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Arothron	*nigropunctatus*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Arothron	*stellatus*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	
Canthigaster	*amboinensis*	Tetraodontidae	Tetraodontiformes	Potentially Soniferous	

Table S2. Sound type measurements (mean ± sd) for the most abundant sound types found, including min frequency (Hz), max frequency (Hz), peak frequency (Hz), centre frequency (Hz), Q1 (first quartile - 25 %; Hz), Q3 (third - 75 %; Hz), 90% frequency bandwidth (Hz), number of pulses, sound duration (s), mean pulse duration (ms) and pulse period (ms).

Classification			Sound ID	N	Min Freq (Hz)	Max Freq (Hz)	Peak Freq (Hz)	Center Freq (Hz)	Q1 (Hz)	Q3 (Hz)	90% BW (Hz)	Sound duration (s)	Pulse duration (ms)	Pulse period (ms)	No. pulses
Pulsed sounds	Single or double pulsed sound	Low Frequency	#1	20	75 ± 44 (14-192)	844 ± 181 (484-1115)	345 ± 63 (258-431)	340 ± 65 (258-431)	310 ± 95 (172-431)	401 ± 51 (345-517)	310 ± 95 (172-431)	0.02 ± 0.01 (0.01-0.03)	20 ± 10 (10-30)	-	1
			#27	18	18 ± 8 (10-38)	667 ± 274 (345-1215)	166 ± 66 (86-345)	177 ± 71 (86-258)	113 ± 41 (86-172)	226 ± 99 (88-431)	264 ± 141 (0-517)	0.05 ± 0.02 (0.03-0.12)	50 ± 20 (30-120)	-	1
			#67	19	171 ± 100 (27-376)	1230 ± 296 (812-1882)	499 ± 102 (258-689)	499 ± 93 (258-689)	336 ± 99 (172-517)	576 ± 100 (345-775)	336 ± 99 (172-517)	0.04 ± 0.02 (0.02-0.07)	10 ± 2 (6-14)	20 ± 9 (8-38)	2.1 ± 0.5 (1-3)
			#21.1	19	170 ± 60 (54-268)	903 ± 171 (581-1384)	462 ± 57 (345-517)	490 ± 81 (345-603)	313 ± 87 (172-517)	558 ± 105 (345-689)	322 ± 139 (172-603)	0.06 ± 0.01 (0.04-0.09)	12 ± 3 (7-17)	31 ± 8 (18-46)	2.0 ± 0 (2)
			#21.2	18	130 ± 72 (13-268)	923 ± 132 (663-1177)	499 ± 93 (345-603)	490 ± 81 (345-603)	313 ± 87 (172-517)	558 ± 105 (345-689)	313 ± 87 (172-430)	0.08 ± 0.01 (0.05-0.11)	13 ± 3 (9-19)	41 ± 10 (28-75)	2.0 ± 0 (2)
			#21.3	16	111 ± 72 (36-271)	1091 ± 197 (695-1526)	491 ± 73 (345-603)	498 ± 77 (431-689)	378 ± 89 (172-517)	555 ± 68 (431-689)	380 ± 92 (172-517)	0.05 ± 0.02 (0.03-0.09)	12 ± 3 (8-21)	40 ± 13 (21-75)	2.0 ± 0 (2)
			#99A	20	259 ± 35 (194-318)	1760 ± 168 (1421-2031)	560 ± 138 (431-861)	560 ± 109 (517-861)	586 ± 97 (517-947)	741 ± 76 (517-689)	590 ± 58 (517-689)	0.05 ± 0.008 (0.04-0.07)	18 ± 4 (8-27)	31 ± 5 (26-49)	2.0 ± 0 (2)
			#99B	17	274 ± 51 (171-410)	1515 ± 364 (620-1805)	537 ± 141 (431 -775)	588 ± 107 (431- 775)	466 ± 101 (345-689)	709 ± 120 (517- 861)	527 ± 132 (172-689)	0.02 ± 0.006 (0.006-0.03)	20 ± 6 (6-31)	-	1
			#100	20	211 ± 63 (115-346)	1592 ± 93 (1459-1829)	564 ± 130 (431-775)	586 ± 117 (430-775)	469 ± 95 (345-689)	698 ± 128 (517 -947)	797 ± 134 (603-1034)	0.02 ± 0.00 (0.01-0.02)	20 ± 0 (10-20)	-	1
			#51	12	0	4878 ± 571 (4016-5890)	345 ± 0	345 ± 0	273 ± 34 (258-345)	352 ± 25 (345 - 431)	388 ± 532 (172-2067)	0.07 ± 0.01 (0.04-0.09)	65 ± 14 (39-86)	-	1
	Pulse train Similar pulses	High Frequency	#32	16	581 ± 249 (252-845)	1168 ± 223 (930-1646)	835 ± 242 (323-1077)	790 ± 197 (474-1270)	655 ± 224 (345-1077)	920 ± 192 (560-1400)	428 ± 200 (194-689)	0.59 ± 0.51 (0.12-1.62)	18 ± 4 (13-28)	106 ± 35 (57-170)	5.9 ± 4.7 (2-18)
			#30	20	292 ± 78 (168-521)	1527 ± 327 (985-2126)	743 ± 213 (431-1034)	712 ± 134 (517-947)	521 ± 88 (431-689)	870 ± 172 (517-1206)	698 ± 240 (431-1378)	0.08 ± 0.05 (0.04-0.23)	13 ± 3 (8-19)	34 ± 5 (26-43)	3.0 ± 1.3 (2-6)
			#12	19	343 ± 127 (215-835)	1509 ± 309 (1063-2090)	589 ± 178 (431-1120)	603 ± 175 (431-1120)	521 ± 136 (345-1034)	739 ± 230 (431-1206)	626 ± 304 (258-1206)	0.09 ± 0.04 (0.05-0.20)	6 ± 2 (3-9)	18 ± 6 (13-33)	5.7 ± 2.6 (3-14)
			#41	8	248 ± 52 (135-291)	2195 ± 1544 (873 ± 5206)	420 ± 30 (345-431)	441 ± 55 (345 - 517)	366 ± 61 (258 - 431)	743 ± 409 (431 -1637)	1367 ±1387 (258-4134)	0.17 ± 0.03 (0.12-0.20)	16 ± 4 (11-21)	80 ± 40 (52-144)	3.2 ± 0.9 (2-4)
			#44	20	193 ± 110 (55-367)	1375 ± 274 (831-2227)	392 ± 113 (258-517)	417 ± 106 (258-603)	366 ± 125 (258-517)	521 ± 146 (345-775)	672 ± 290 (258-1464)	0.35 ± 0.12 (0.14-0.57)	41 ± 11 (21-65)	104 ± 13 (78-136)	4.1 ± 1.3 (2-6)

	Low Frequency	#42	19	107 ± 58 (22-202)	1030 ± 379 (739-1988)	407 ± 88 (258-603)	440 ± 57 (345-517)	358 ± 59 (258-431)	512 ± 54 (431-603)	381 ± 88 (258-517)	0.08 ± 0.02 (0.05-0.11)	7 ± 5 (3-25)	14 ± 9 (9-45)	7.4 ± 3.5 (2-17)
		#69	17	38 ± 48 (0-206)	2204 ± 5116 (740-22050)	289 ± 146 (86-517)	318 ± 108 (86 -517)	194 ± 80 (86 - 345)	409 ± 102 (172 - 603)	451 ± 84 (258-603)	0.56 ± 0.91 (0.07-3.77)	56 ± 16 (29-92)	141 ± 73 (64-277)	3 ± 4.1 (1-17)
		#15.1	11	85 ± 93 (7-257)	782 ± 160 (582-1191)	321 ± 155 (86-517)	345 ± 144 (172-517)	274 ± 127 (86-431)	431 ± 115 (258-603)	368 ± 87 (258-517)	0.20 ± 0.14 (0.07-0.47)	12 ± 4 (8-20)	42 ± 18 (26-89)	7.1 ± 6.2 (3-24)
		#8	20	90 ± 49 (38- 191)	889 ± 263 (534-1743)	396 ± 65 (258-517)	388 ± 59 (258-431)	319 ± 49 (258-431)	426 ± 71 (345-517)	263 ± 59 (172-345)	0.27 ± 0.08 (0.15-0.40)	21 ± 5 (12-30)	40 ± 7 (33-64)	6.6 ± 1.9 (1-9)
		#70	20	51 ± 42 (0-139)	1101 ± 157 (713-1429)	426 ± 81 (345-603)	418 ± 90 (258-517)	314 ± 98 (172-431)	478 ± 106 (345-603)	439 ± 88 (258-603)	0.10 ± 0.05 (0.03-0.24)	-*	12 ± 5 (5-20)	7.0 ± 4.0 (2-17)
		#18	16	59 ± 67 (10-234)	853 ± 187 (660-1286)	415 ± 161 (172-603)	330 ± 141 (172-603)	248 ± 125 (86-431)	431 ± 118 (258-603)	479 ± 77 (345-603)	1.56 ± 0.92 (0.22-3.19)	8 ± 3 (3-14)	42 ± 25 (14-100)	53.4 ± 43.2 (11-176)
	Different pulses	#29	16	58 ± 59 (9-199)	1447 ± 848 (654-3718)	355 ± 172 (86-689)	345 ± 122 (172-603)	248 ± 108 (86-431)	447 ± 114 (258-689)	447 ± 164 (172-689)	0.34 ± 0.20 (0.06-0.91)	22 ± 21 (9-99)	116 ± 43 (52-199)	4 ± 2 (2-11)
Continuous sounds	Frequency Modulated	#64	13	338 ± 64 (203-455)	931 ± 77 (743-1047)	603 ± 93 (517-775)	643 ± 83 (517 - 775)	563 ± 67 (517 - 689)	729 ± 76 (603 - 775)	417 ± 92 (258-517)	0.06 ± 0.02 (0.04-0.1)	-	-	-
		#57.1	20	224 ± 85 (0-361)	877 ± 144 (587-1070)	457 ± 131 (0-689)	478 ± 76 (258 - 603)	413 ± 91 (86 - 517)	551 ± 71 (431 - 689)	284 ± 119 (86-517)	0.15 ± 0.07 (0.06-0.41)	-	-	-
		#57.2	10	180 ± 90 (70-310)	955 ± 114 (801-1141)	568 ± 109 (431-775)	525 ± 49 (431 - 603)	422 ± 95 (172 - 517)	594 ± 64 (517 - 689)	500 ± 120 (345-689)	0.54 ± 0.11 (0.40-0.69)	-	-	-
		#13	10	111 ± 95 (0-262)	702 ± 170 (378-901)	353 ± 205 (0-517)	379 ± 109 (258 - 517)	284 ± 141 (86 - 431)	473 ± 84 (345 - 603)	362 ± 127 (172-517)	0.76 ± 0.28 (0.41-1.25)	-	-	-
	Frequency Non-modulated	#101	13	35 ± 33 (14-115)	584 ± 139 (387-879.74)	206 ± 162 (22-473)	181 ± 117 (43 - 452)	131 ± 95 (22 - 345)	255 ± 128 (86 - 517)	325 ± 109 (129-517)	0.46 ± 0.22 (0.23-0.93)	-	-	-
		#22	10	27 ± 33 (0-92)	732 ± 163 (541-1053)	396 ± 173 (172-603)	353 ± 137 (172 - 603)	250 ± 125 (86 - 517)	439 ± 131 (258 - 603)	422 ± 64 (258-517)	0.07 ± 0.03 (0.03-0.12)	-	-	-
		#23	11	79 ± 27 (51-119)	545 ± 173 (277-852)	319 ± 121 (172-452)	307 ± 107 (172-452)	218 ± 66 (129-345)	356 ± 107 (194-474)	313 ± 130 (86-495)	0.32 ± 0.46 (0.05-1.66)	-	-	-
		#24	20	265 ± 104 (94-437)	863 ± 239 (704-1770)	551 ± 43 (517-603)	547 ± 51 (431-603)	495 ± 55 (431-603)	581 ± 38 (517-603)	207 ± 71 (172-345)	0.03 ± 0.01 (0.02-0.05)	-	-	-
		#60	11	386 ± 49 (302-442)	722 ± 59 (616-828)	548 ± 43 (517-603)	548 ± 43 (517 - 603)			196 ± 40 (172-258)	0.10 ± 0.07 (0.04-0.28)	-	-	-
		#65	20	370 ± 61 (268-488)	854 ± 206 (670-1650)	581 ± 78 (431-775)	573 ± 70 (431-689)	517 ± 56 (431-603)	599 ± 65 (517-775)	185 ± 58 (86-344)	0.07 ± 0.04 (0.02-0.18)	-	-	-

		#59	20	269 ± 50 (176-325)	737 ± 115 (650-1178)	491 ± 69 (345-603)	495 ± 47 (431-603)	457 ± 41 (431-517)	530 ± 58 (431-603)	198 ± 75 (86-345)	0.02 ± 0.01 (0.01-0.04)	-	-	-
	Wideband with high entropy levels	#14	20	56 ± 84 (0-233)	782 ± 147 (636-1215)	314 ± 120 (86-517)	323 ± 108 (172-517)	250 ± 108 (86-431)	405 ± 89 (258-603)	422 ± 62 (345-517)	0.29 ± 0.11 (0.14-0.54)	-	-	-
		#55	10	156 ± 66 (53-288)	962 ± 133 (796-1191)	543 ± 42 (517-603)	517 ± 41 (431 - 603)	431 ± 57 (345 - 517)	594 ± 27 (517 – 603)	439 ± 111 (258-603)	0.11 ± 0.05 (0.05-0.24)	-	-	-
		#15.2	13	4 ± 9 (0-29)	744 ±206 (358-1131)	219 ± 76 (86-345)	192 ± 72 (86 - 258)	139 ± 44 (86 - 172)	265 ± 89 (86 - 345)	318 ± 89 (172-517)	0.14 ± 0.10 (0.04-0.41)	-	-	-
Oddities		#107	20	108 ± 83 (14-323)	697 ± 95 (442-862)	366 ± 163 (43-581)	342 ± 115 (172-581)	264 ± 116 (108-538)	486 ± 83 (280-624)	410 ± 79 (258-560)	1.22 ± 1.14 (0.33-4.97)	22 ± 4 (16-30)	97 ± 24 (63-159)	13.8 ± 13.7 (5-60)

Table S3. Description of all sound types.

Classification				ID	Description
Pulsed sounds	Single or double pulsed sounds	Low Frequency		1	Pulsed sound with peak frequency of about 345 Hz. Frequently appears as sequences of pulses similar to knocking sounds.
				27	Very low frequency pulsed sound that is found as a single pulse or as short sequences of pulses. Peak frequency of about 177 Hz and a duration of 50ms.
				100	Single wideband pulsed sound (200-1600 Hz) with a short duration and narrow amplitude. Peak frequency of ca. 560 Hz, and a duration of 20 ms.
				51	Long and noisy** single pulse or sequence of pulses.
				99A	2 wideband pulses with a peak frequency around 550 Hz. Sound duration of about 18 ms. Usually followed by ST 99B.
				99B	Single wideband pulse. Following 99A with an interval of ca. 290 ms between sounds.
				21.1	Pulsed sound with 2 pulses with pulse period of 31 ms on average. Peak frequency of about 462 Hz, and narrower frequency band than ST 67. This ST is more tuned and peaks at a lower frequency than the ST 21.2 and 21.3.
				21.2	Similar to ST 21.1 with a pulse period around 41 ms. ST 21b differentiates from the other 21 because of the pulse shape and higher frequency (peak frequency around 499 Hz).
				21.3	Similar to ST 21.1, but more wideband. Peak frequency of 493 Hz, and pulse period of 40 ms.
				67	Pulsed sound with 2 pulses close to each other (pulse period on average of 20 ms). Peak frequency around 500 Hz.
	Pulse train	Similar pulses	High Frequency	32	2-19 pulses with high frequency, up to 1910 Hz. Peak frequency of ca. 90 Hz and sound duration of 27 ms
				30	High frequency pulse train composed from 2 to 6 sound units. Peak frequency of about 743 Hz, and a pulse duration of 13 ms.
				12	Wideband pulses (at least three) with irregular pulse period. Peak frequency ca. 590 Hz, and short pulse duration of 6 ms.
				41	High pulsed sound which occurs either as a sequence of pulses and as a pulse train.
			Low Frequency	44	Pulsed stereotyped sound composed by 2-6 sound units. Peak frequency of about 392 Hz, and a pulse duration of 41 ms.
				69	Sequence of short grunt-like sounds (grunt train).
				8	Purr-like composed by several pulses (at least 5) with a regular pulse period of ca. 21 ms. Peak frequency below 400 Hz, and often slightly upsweep.
				68*	Purr-like sound which starts at a higher frequency and slightly reduces the frequency. Amplitude increases throughout the sound. Can be found in a short or long sound duration.

			63*	Purr-like sound with higher frequencies than ST 8 and 68. Peak frequency above 500 Hz.
			15.1	Low frequency pulsed train with a peak frequency of 219 Hz. Difficult to distinguish pulse duration from pulse period.
			31*	Irregular purr-like sound consisting of two pulsed sound units separated by a long inter onset period. Could appear in sequences.
			42	Fast repetitive pulsed sound with a peak frequency of 413 Hz. Sound duration of about 8 ms.
			56*	Short knocking-like sound with wideband spectral representation. Dominant frequency range around 200 Hz and fast pulse period (< 6 ms).
			102*	Short drum like fish sound with dominant frequency around 150 Hz and substantial energy between 100 Hz and 1 kHz. Fast pulse period (< 6 ms).
			70	Grunt-like sound which consists of a pulse train with short pulse period (ca. 12 ms). Peak frequency about 420 Hz.
			18	Purr-like sound consisting of a long pulse train with a pulse period usually below 40 ms, a duration up to 3 s and with a peak frequency around 415 Hz.
		Different pulses	29	Pulsed sound with decreasing amplitude, usually found in a group of 3 sound units, from which the first unit presents the highest amplitude. Peak frequency of about 355 Hz. Sound duration of 22 ms
			25*	Grunt-like sound composed by quick pulses followed by slow irregular pulses with lower frequency. Up to 1 s.
Continuous sounds	Tonal sounds	Frequency Modulated	64	Short frequency-modulated sound with an unsweep shape. Starts at a high frequency (at 850 Hz) and rapidly decreases its frequency (450 Hz).
			57.1	Short tonal sound (averaged sound duration of ca. 0.15 s). On the spectrogram can be recognized as a slight U-shape like form. Peak frequency of ca. 450 Hz.
			57.2	Frequency modulated tonal sound similar to 57.2 but with higher entropy. Usually in a sequence of a longer sound followed by a shorter sound. Peak frequency of about 570 Hz.
			58*	Soft blowing-like high frequency sound. Starts in a high frequency and slightly reduces its frequency until it is kept constant for a short or long time.
			13	Low frequency modulated sound which starts with a low frequency and most of the energy is concentrated at the end of the sound. Can be found with small or big changes in amplitude, and with sound duration up to 1.25 s.
			46*	Low frequency modulated sound that starts with a constant frequency and energy and at the end changes to a very distinguish pulse. Can be found in single or multiple units.
			106*	Short and fast grunt-like sound. Frequency below 1 kHz.
		Not frequency modulated	101	Low frequency tonal sound. Most of the energy is below 250 Hz. Commonly found with a long sound duration but also with short duration. Sound duration averages of 0.46 s.

		22	Short low frequency grunt-like sound with an average sound duration of 0.07 s. Peak frequency of about 396 Hz.
		23	Short not-frequency modulated tonal sound with a low pitch. Can be found in sequences. In the oscillogram is observed a clear symmetry between the first and second half of the sound. Average peak frequency around 320 Hz.
		24	Harmonic not-frequency modulated tonal short sound. Resembles snapping a glass bottle in air. Average peak frequency of ca. 550 Hz
		60	High pitched sound with a peak frequency around 550 Hz. Usually with a short duration (average sound duration of 0.10 s).
		65	Harmonic not-frequency modulated tonal sound, similar to ST 24 but with a longer duration in the same frequency. Average peak frequency of 581 Hz.
		59	Not-frequency modulated low pitched tonal sound. Similar to ST 24 and 65. Mean peak frequency of 491 Hz.
	Wideband sounds with high entropy levels	14	Combination of some irregular pulsed units that generates wideband noisy** sound with a peak frequency of about 314 Hz
		55	Wideband noisy** sound with a frequency range usually between 150 and 1000 Hz.
		15.2	Similar to sound 15.1 but super-fast pulse that give the perception of continuous sound.
Oddities		107	Irregular low frequency sound, including the presence of pulses. Peak frequency of about 366 Hz.
		53*	Continuous wideband noisy** sound that includes a repetition of irregular pulses. Usually finishes with a couple of fast pulses. Can be found as a sequence of 3 sound units up to more. Frequency range up to 1 kHz.

* Sound types with low number of examples to perform any additional characterization. ** 'Noisy' refers to sounds with high entropy levels.

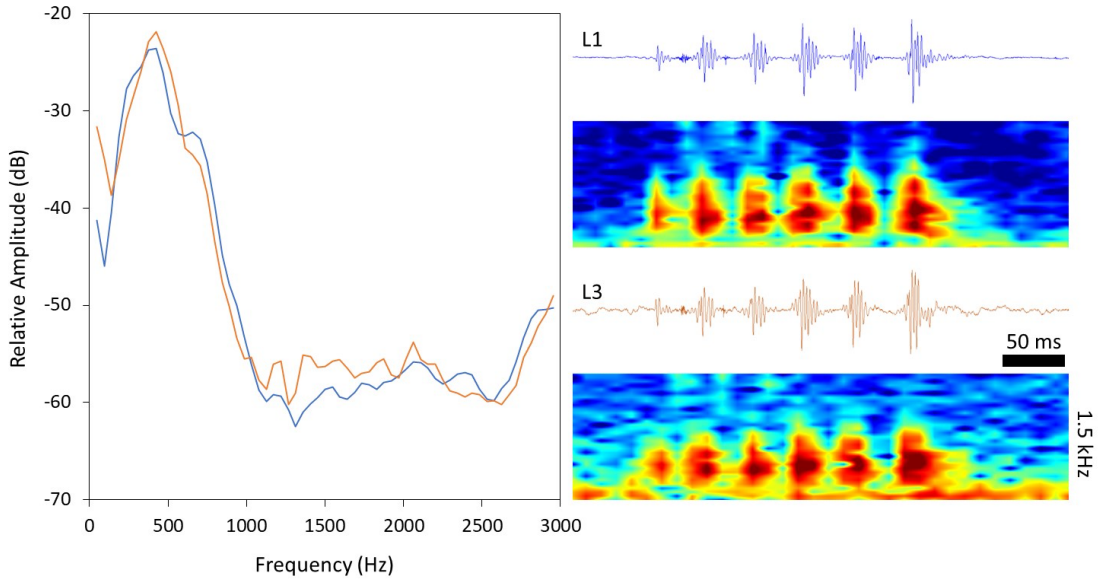


Figure S1 – Comparison of recorders equipped with a HTI 94 SSQ hydrophone (High Tech Inc., Gulfport, MS, USA; L1) and with a piezoelectric ceramic disc transducer (L3), deployed side by side. Sampling frequency, 6 kHz; FFT size, 128; window type, Hanning; overlap, 50%. Note that frequencies below ca. 140 Hz are overrepresented in L3.

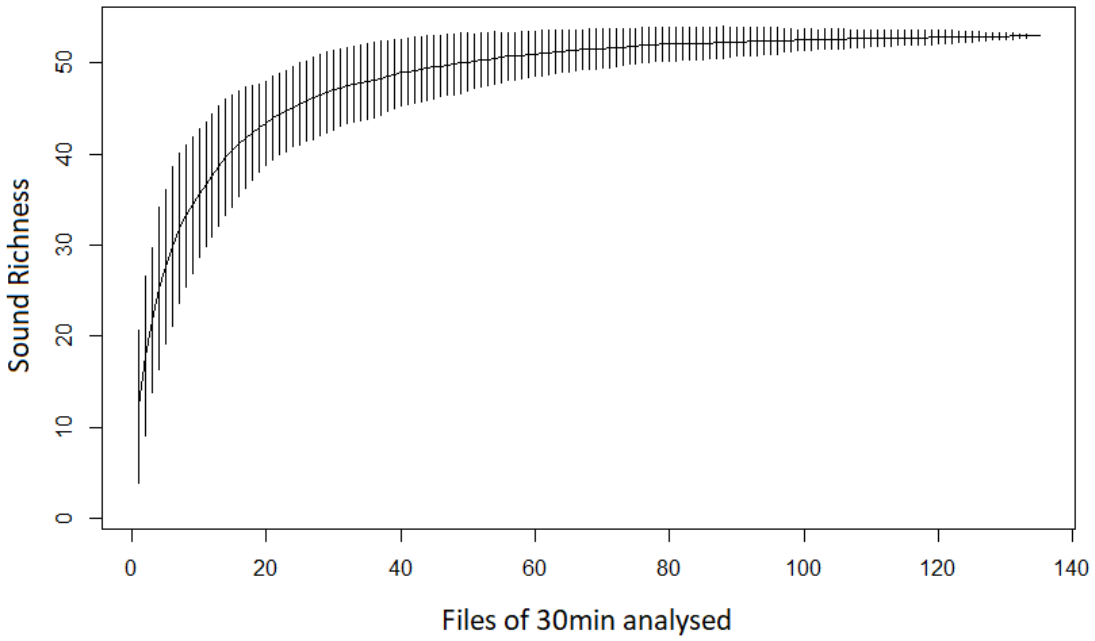
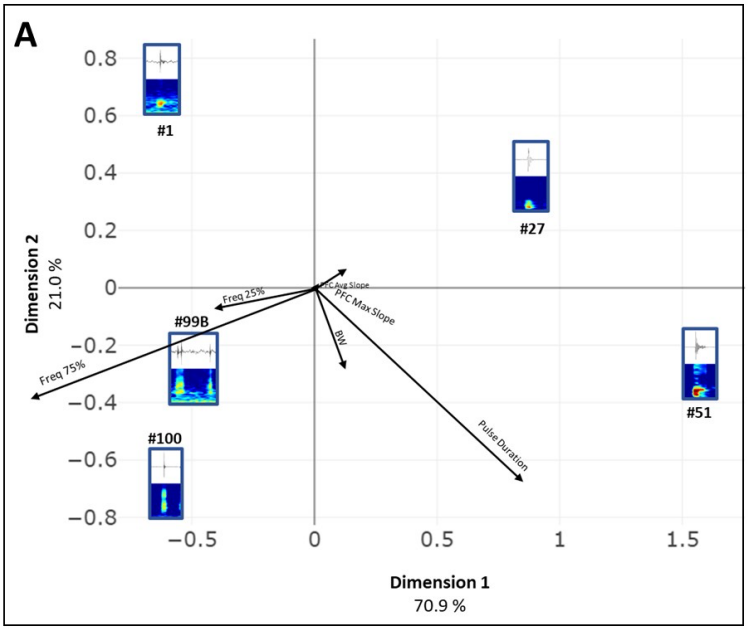


Figure S2. Sample-based accumulation curves of sound type richness. The vertical lines on each accumulation curve represent the standard deviation, calculated from a bootstrap with 100 repetitions.


A
Dimension 2
21.0 %
Dimension 1
70.9 %
#1
#27
#99B
#51
#100
Freq 25%
Freq 75%
PFC Avg Slope
PFC Max Slope
BW
Pulse Duration

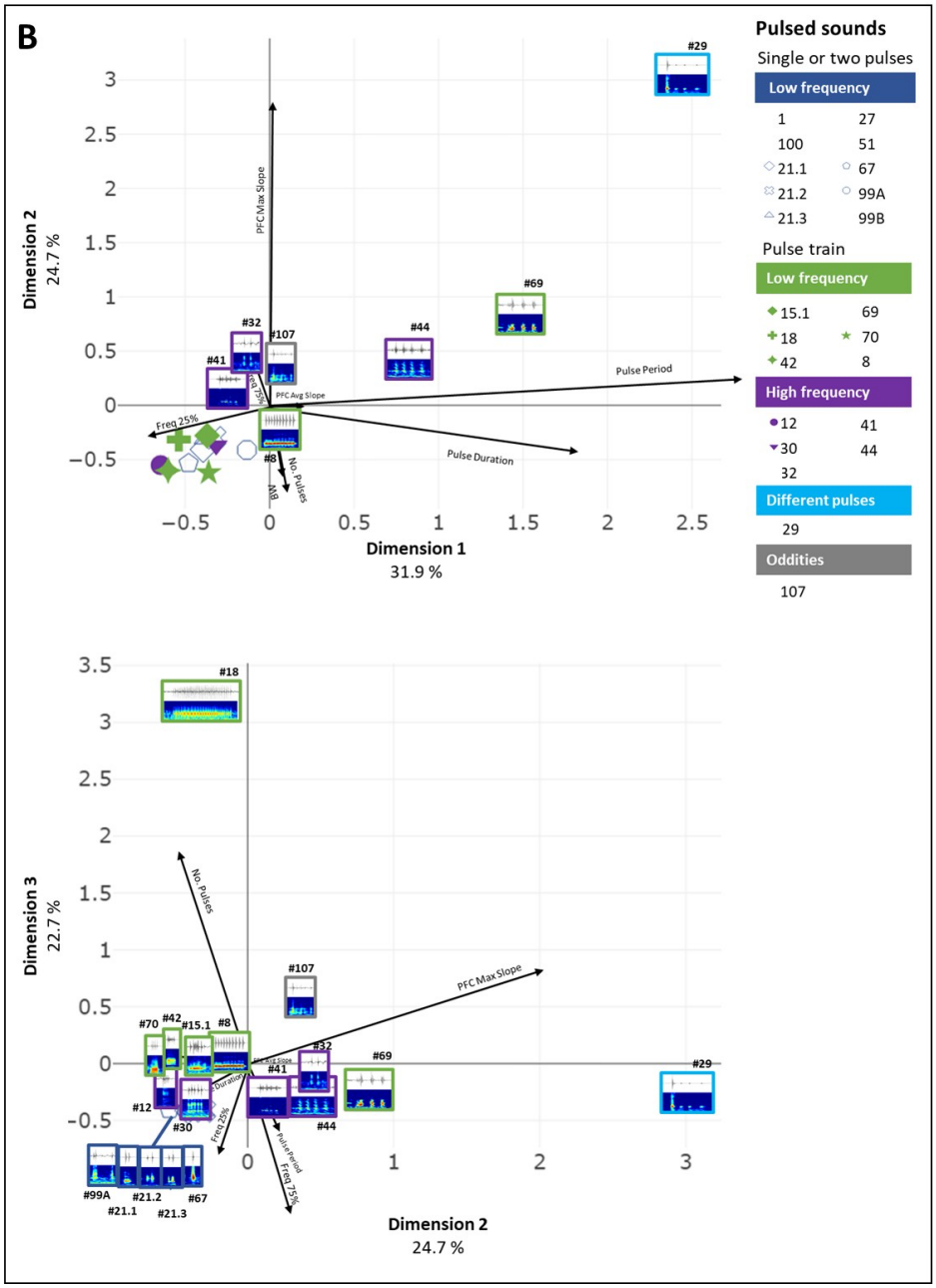

B
Dimension 2
24.7 %
Dimension 1
31.9 %
Dimension 3
22.7 %
Dimension 2
24.7 %
PFC Max Slope
Pulse Period
Pulse Duration
PFC Avg Slope
Freq 25%
No. Pulses
BW
Pulsed sounds
Single or two pulses
Low frequency
1
27
100
51
21.1
67
21.2
99A
21.3
99B
Pulse train
Low frequency
15.1
69
18
70
42
8
High frequency
12
41
30
44
32
Different pulses
29
Oddities
107

Figure S3. Discriminant analysis for each sound type classified as pulsed sound. A) Discriminant analysis for sounds with only 1 pulse. The first and second dimensions explain 91.9 % of total variance and discriminates sounds mostly according to 75% frequency quartile (canonical coefficient of 1.38 and 1.00, respectively), pulse duration (-1.00 and 1.73), and bandwidth (BW; -0.14 and 0.75). B) Discriminant analysis for sounds with more than 1 pulse. The first dimension (29.4 % of total variance) discriminates sounds with higher pulse duration and/or pulse period (canonical coefficient of -0.82 and -1.25, respectively). The second dimension (23.2 %) separates mostly sounds according to the changes in the Frequency Contour (-1.99). The third dimension (20.8 %) mostly discriminates sounds according to the number of pulses (-1.13). Sound type 18, that is a long pulse train with 53 pulses on average, is visible on the top of the plot. Each sonogram/symbol represents averaged features of each sound type and colours represent classes of sounds as defined in Table 2.

Table S4. Confusion matrices for the discriminant analysis of the pulsed sound types with 1 pulse. Total accuracy of 88.37 %.

	1	**100**	**27**	**51**	**99B**
1	20	1	1	0	3
100	0	16	0	0	0
27	0	0	15	1	0
51	0	0	1	11	0
99B	0	3	0	0	14
Correct (%)	**100**	**80**	**88**	**92**	**82**

Table S5. Confusion matrices for the discriminant analysis of the pulsed sound types with more than 1 pulse. Total accuracy of 61.26 %.

	107	***12***	***15.1***	***18***	***21.1***	***21.2***	***21.3***	***29***	***30***	***32***	***41***	***42***	***44***	***67***	***69***	***70***	***8***	***99A***
107	14	0	1	2	0	0	0	0	0	2	0	0	0	0	1	0	0	0
12	0	6	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	3
15.1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
18	2	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21.1	0	1	1	0	9	0	4	0	0	0	0	3	0	0	0	1	0	0
21.2	4	6	2	0	4	13	4	0	0	0	0	1	0	1	0	0	1	0
21.3	0	0	1	0	3	1	7	0	0	0	0	0	0	2	0	0	0	3
29	0	0	0	0	0	0	0	13	0	0	0	0	0	0	1	0	1	0
30	0	1	0	0	0	0	2	1	9	2	0	0	0	0	0	0	0	0
32	0	1	0	0	0	0	0	0	2	10	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0
42	0	0	1	0	0	0	0	0	0	0	0	11	0	1	0	6	0	0
44	0	0	0	0	0	0	0	0	1	1	0	0	16	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	3	0	0	9	0	0	0	0
69	0	0	0	0	0	0	0	2	0	0	0	0	1	0	12	0	0	0
70	0	0	3	3	0	0	0	0	0	0	0	2	0	0	0	9	0	0
8	1	0	1	0	1	3	0	0	0	0	0	1	3	1	1	1	17	0
99A	0	4	0	0	1	2	0	0	4	0	0	0	0	0	0	0	0	14
Correct (%)	**67**	**32**	**9**	**67**	**47**	**68**	**41**	**81**	**47**	**67**	**63**	**61**	**80**	**64**	**80**	**53**	**89**	**70**

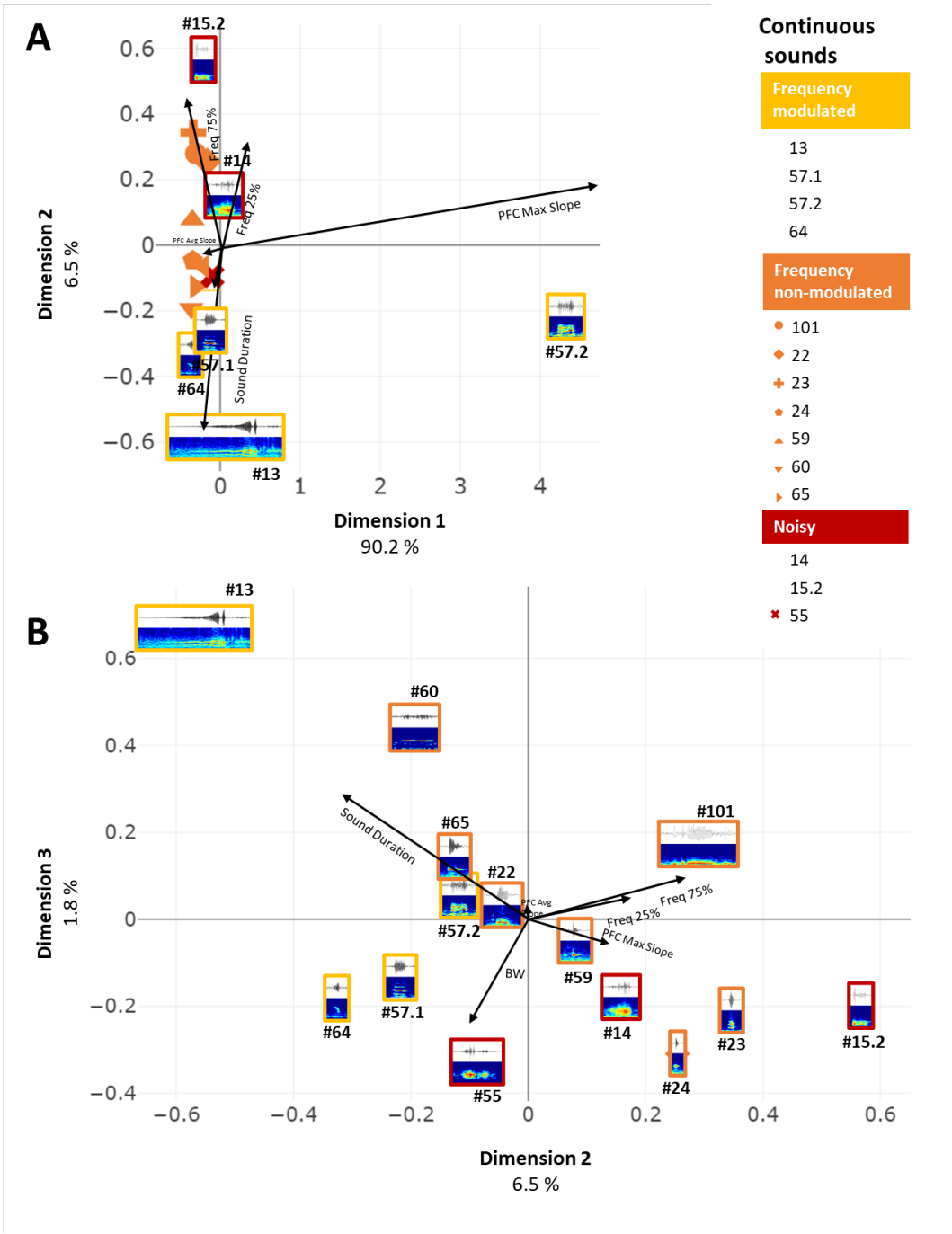


Figure S4. Discriminant analysis for each sound type classified as continuous sound: frequency modulated, non-modulated and 'noisy', which refers to wideband sounds with high entropy levels. (A) Represents the first and second dimensions, and (B) the second and third dimensions. The first dimension (90.2 % of total variance) isolates ST 57.2 due to the changes in the Frequency Contour (canonical coefficient of 9.01). The second dimension (6.2 %) separates mostly sounds according to sound duration and 75% frequency quartile (canonical coefficient of 1.40 and 1.08, respectively). This dimension roughly separates frequency modulated from frequency non-modulated sound types. The third dimension (1.8 %) mostly gave importance to the sound duration and bandwidth (canonical coefficient of 1.42 and 1.07, respectively). Each sonogram/symbol represents averaged features of each sound type and colours represent classes of sounds as defined in Table 2.

Table S6. Confusion matrix for the discriminant analysis of the continuous sound types. Total accuracy of 62.38 %.

	101	***13***	***14***	***15.2***	***22***	***23***	***24***	***55***	***57.1***	***57.2***	***59***	***60***	***64***	***65***
101	8	1	0	1	0	0	0	0	0	0	0	0	0	0
13	3	7	0	0	0	0	0	0	0	0	0	0	0	0
14	0	1	15	0	0	0	0	0	2	0	0	0	0	0
15.2	1	0	2	9	2	2	0	0	0	0	0	0	0	0
22	0	0	0	1	4	1	0	0	0	0	0	0	0	0
23	1	0	0	2	1	7	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	7	0	2	0	7	0	2	4
55	0	0	0	0	1	0	0	7	1	0	0	0	2	0
57.1	0	1	3	0	1	0	0	3	12	0	0	1	0	1
57.2	0	0	0	0	0	0	0	0	0	10	0	0	0	0
59	0	0	0	0	0	0	3	0	1	0	11	0	0	3
60	0	0	0	0	0	0	0	0	0	0	0	9	0	0
64	0	0	0	0	1	0	0	0	0	0	0	0	9	1
65	0	0	0	0	0	0	10	0	2	0	2	3	0	11
Correct (%)	**62**	**70**	**75**	**69**	**40**	**70**	**35**	**70**	**60**	**100**	**55**	**69**	**69**	**55**