

Table S1 - Species list and references used to assess sound pressure level (dB SPL) and body size relationship. Underwater recordings are denoted with an asterisk (\*) before species name.

## Amphibian

<i>Acris crepitans</i>	Gerhardt (1975)	Gerhardt (1975)
<i>Afrixalus brachycnemis</i>	Passmore (1981)	Passmore (1981)
<i>Afrixalus fornasinii</i>	Passmore (1981)	Passmore (1981)
<i>Batrachyla antartandica</i>	Penna & Solis (2005)	Penna & Solis (2005)
<i>Batrachyla leptopus</i>	Penna & Solis (2005)	Penna & Solis (2005)
<i>Buffo gutturalis</i>	Passmore (1981)	Passmore (1981)
<i>Bufo americana</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Bufo garmani</i>	Passmore (1981)	Passmore (1981)
<i>Bufo quercicus</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Bufo terrestris</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Cacosternum bettgeri</i>	Passmore (1981)	Passmore (1981)
<i>Eleutherodactylus coqui</i>	Narins & Hurley (1982)	Narins & Hurley (1982)
<i>Engystomops pustulosus</i>	Ryan (1985)	Wilczynski et al. (2001)
<i>Eupsophus emiliopugini</i>	Penna & Solis (2005)	Penna & Solis (2005)
<i>Gastrophryne carolinensis</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla arborea</i>	Marquez et al. (2005)	Marquez et al. (2005)
<i>Hyla avivoca</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla cinerea</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla crysoscelis</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla femoralis</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla gratiosa</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla meridionalis</i>	Marquez et al. (2005)	Marquez et al. (2005)
<i>Hyla squirella</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hyla versicolor</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Hylorina sylvatica</i>	Penna & Solis (2005)	Penna & Solis (2005)
<i>Hyperolius argus</i>	Passmore (1981)	Passmore (1981)
<i>Hyperolius marmoratus</i>	Passmore (1981)	Passmore (1981)
<i>Hyperolius pusillus</i>	Passmore (1981)	Passmore (1981)
<i>Hyperolius tuberilinguis</i>	Passmore (1981)	Passmore (1981)
<i>Kassina maculata</i>	Passmore (1981)	AmphibiaWeb (2010)
<i>Limnaeodius ocularis</i>	Gerhardt (1975)	Wright & Wright (1949)
<i>Lithobates virgatipes</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Phrynobatrachus mababiensis</i>	Passmore (1981)	Lambiris (1989)
<i>Phrynobatrachus natalensis</i>	Passmore (1981)	Passmore (1981)
<i>Phrynomerus bifasciatus</i>	Passmore (1981)	Passmore (1981)
<i>Pleurodema thaul</i>	Penna & Solis (2005)	Penna & Solis (2005)
<i>Pseudacris crucifer</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Pseudacris streckeri</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Pseudacris triseriata</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Ptychadena anchietae</i>	Passmore (1981)	Passmore (1981)
<i>Ptychadena mossambica</i>	Passmore (1981)	Passmore (1981)
<i>Rana areolata</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Scaphiopus holbrookii</i>	Gerhardt (1975)	Conant & Collins (1991)
<i>Tomopterna cryptotis</i>	Passmore (1981)	Passmore (1981)
<i>Tomopterna krugerensis</i>	Passmore (1981)	Passmore (1981)
<i>Xenopus borealis</i>	Yager (1992)	Yager (1992)

## Bird

<i>Acrocephalus schoenobaenus</i>	Brackenbury (1979)	Jonsson (1994)
<i>Alauda arvensis</i>	Briefer et al. (2008)	Jonsson (1994)
<i>Aptenodytes patagonicus</i>	Aubin & Jouventin (1998)	Korc & Fraser (2006)
<i>Calonectris diomedea</i>	Curé et al. (2009)	Jonsson (1994)
<i>Carduelis cannabina</i>	Brackenbury (1979)	Jonsson (1994)
<i>Emberiza citrinella</i>	Brackenbury (1979)	Jonsson (1994)
<i>Emberiza shoeniclus</i>	Brackenbury (1979)	Jonsson (1994)
<i>Erithacus rubecula</i>	Brackenbury (1979)	Jonsson (1994)
<i>Eudyptes chrysolophus</i>	Searby et al. (2004)	Reynolds (2001)
<i>Eudyptula minor</i>	Jouventin & Aubin (2000)	Quick (2001)
<i>Fringilla coelebs</i>	Brackenbury (1979)	Jonsson (1994)
<i>Larus ridibundus</i>	Charrier et al. (2001)	Jonsson (1994)
<i>Locustella naevia</i>	Brackenbury (1979)	Jonsson (1994)
<i>Parus ater</i>	Brackenbury (1979)	Jonsson (1994)
<i>Phylloscopus collybita</i>	Brackenbury (1979)	Jonsson (1994)
<i>Phylloscopus trochilus</i>	Brackenbury (1979)	Jonsson (1994)
<i>Poecile atricapillus</i>	Charrier et al. (2005)	Peterson (1980)
<i>Puffinus tenuirostris</i>	Jouventin & Aubin (2000)	Lindsey (1986)
<i>Puffinus yelkouan</i>	Curé et al. (2009)	Jonsson (1994)
<i>Pygoscelis adeliae</i>	Jouventin & Aubin (2002)	Combos & Francé (2008)
<i>Pygoscelis papua</i>	Jouventin & Aubin (2002)	Ahmed (2003)
<i>Regulus regulus</i>	Brackenbury (1979)	Jonsson (1994)
<i>Strix aluco</i>	Lengagne & Slater (2002)	Jonsson (1994)
<i>Sylvia atricapilla</i>	Brackenbury (1979)	Jonsson (1994)
<i>Sylvia communis</i>	Brackenbury (1979)	Jonsson (1994)
<i>Sylvia curruca</i>	Brackenbury (1979)	Jonsson (1994)
<i>Troglodytes troglodytes</i>	Brenowitz (1982)	Jonsson (1994)
<i>Turdus merula</i>	Brackenbury (1979)	Jonsson (1994)
<i>Turdus philomelos</i>	Brackenbury (1979)	Jonsson (1994)

## Crustacea

* <i>Panulirus interruptus</i>	Patek et al (2009)	Patek et al (2009)
* <i>Synalpheus parneomeris</i>	Au & Banks (1998)	Au & Banks (1998)

## Fish

* <i>Abudefduf abdominalis</i>	Maruska et al (2007)	Maruska et al. (2007)
* <i>Cynoscion regalis</i>	Connaughton et al (2000)	Connaughton et al. (2000)
* <i>Pogonias cromis</i>	Locascio (comm. pers.)	Murphy & Taylor (1989)

## Insect

<i>Acheta domesticus</i>	Dumortier (1963)	Bellmann & Luquet (1993)
<i>Amyna natalis</i>	Heller & Achman (1993)	Heller & Achman (1993)
<i>Ancistocercus circumdatus</i>	Morris & Beier (1982)	Morris & Beier (1982)
<i>Anurogryllus arboreus</i>	Forrest (1991)	Walker (1973)
<i>Ascotis selenaria</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Beameria venosa</i>	Sanborn & Phillips (1995b)	Sanborn et al. (2009)
<i>Brevisana brevis</i>	Villet (1987)	Villet (1987)
<i>Bullacris membracioides</i>	Staden & Römer (1997)	Eades et al. (2010)
<i>Championica walkeri</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Chibchella nigrospectula</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Chilo suppressalis</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Choeroparnops gigliotosi</i>	Morris et al. (1994)	Morris et al. (1994)

<i>Crambidia pallida</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Cyclochila australasiae</i>	Young (1990)	Young (1990)
<i>Cycloptiloides canariensis</i>	Dambach & Gras (1995)	Dambach & Gras (1995)
<i>Cygnia oregonensis</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Cygnia tenera</i>	Fullard (1977)	Covell (2005)
<i>Cystosoma saundersii</i>	MacNally & Young (1981)	Bennet-Clark & Young (1998)
<i>Dectinomima jenningsi</i>	Montealegre-Z & Morris (2003)	Montealegre-Z & Morris (2003)
<i>Diceroprocta apache</i>	Sanborn & Phillips (1995b)	Davis (1921)
<i>Diceroprocta auriantaca</i>	Sanborn & Phillips (2001)	Sanborn & Phillips (2001)
<i>Diceroprocta bibbyi</i>	Sanborn & Phillips (1995b)	Davis (1928)
<i>Diceroprocta canescens</i>	Sanborn & Phillips (1995b)	Davis (1935)
<i>Diceroprocta delicata</i>	Sanborn & Phillips (2001)	Sanborn & Phillips (2001)
<i>Diceroprocta eugraphica</i>	Sanborn & Phillips (1995b)	Drew et al. (1974)
<i>Diceroprocta knighti</i>	Sanborn & Phillips (1995b)	Davis (1917)
<i>Diceroprocta olympi</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Diceroprocta semicincta</i>	Sanborn & Phillips (1995b)	Davis (1925)
<i>Diceroprocta swalei</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Diceroprocta texana</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Docidocercus chlorops</i>	Morris et al (1988)	Morris et al. (1988)
<i>Docidocercus gausodontus</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Drosophila melanogaster</i>	Bennet-Clark (1971)	Miller (2000)
<i>Eilema japonica</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Ephippiger ephippiger</i>	Berg & Greenfield (2005)	Bellmann & Luquet (1993)
<i>Ephippiger terrestris</i>	Dumortier (1963)	Bellmann & Luquet (1993)
<i>Euchaetes egle</i>	Nakano et al. (2009)	Opler et al. (2009)
<i>Grammia anna</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Grammia arge</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Grammia virgo</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Gryllotalpa africana</i>	De Graaf et al. (2005)	De Graaf et al. (2004)
<i>Gryllotalpa australis</i>	Kavanagh (1987)	Otte & Alexander (1983)
<i>Gryllotalpa gryllotalpa</i>	Bennet-Clark (1970)	Bennet-Clark (1970)
<i>Gryllotalpa major</i>	Hill (1998)	Hill (1998)
<i>Gryllotalpa vineae</i>	Bennet-Clark (1970)	Bennet-Clark (1970)
<i>Gryllus bimaculatus</i>	Simmons (1988)	Bellmann & Luquet (1993)
<i>Gryllus campestris</i>	Bennet-Clark (1970)	Bellmann & Luquet (1993)
<i>Halysidota tessellaris</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Haploa confusa</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Haploa contigua</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Herminia tarsicrinalis</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Hypoprepia fucosa</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Kawanaphila mirla</i>	Mason & Bailey (1998)	Rentz (1993)
<i>Kawanaphila nartee</i>	Bailey & Simmons (1991)	Gwynne & Bailey (1988)
<i>Kawanaphila yarraga</i>	Mason & Bailey (1998)	Rentz (1993)
<i>Leptophyes punctatissima</i>	Zimmermann et al. (1989)	Bellmann & Luquet (1993)
<i>Leurophyllum consanguineum</i>	Morris et al (1988)	Morris et al. (1988)
<i>Ligurotettix planum</i>	Minckley et al. (1995)	Garcia (2006)
<i>Lophaspis hebaridi</i>	Morris & Beier (1982)	Morris & Beier (1982)
<i>Lycomorpha pholus</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Lyristes chiricahua</i>	Sanborn & Phillips (1995b)	Davis (1923)
<i>Lyristes duryi</i>	Sanborn & Phillips (1995b)	Davis (1917)
<i>Lyristes inauditus</i>	Sanborn & Phillips (1995b)	Drew et al. (1974)
<i>Lyristes superbus</i>	Sanborn & Phillips (1995b)	Drew et al. (1974)
<i>Lyristes texanus</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Lyristes winemanna</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Mantis religiosa</i>	Hill (2007)	Sueur (pers. observ.)
<i>Mecopoda chirper</i>	Nityananda & Balakrishnan (2008)	Nityananda & Balakrishnan (2006)

<i>Mygalopsis marki</i>	Römer & Bailey (1986)	WAISC (2010)
<i>Neocicada chisos</i>	Sanborn & Phillips (1995b)	Sanborn et al. (2005)
<i>Neocicada hieroglyphica</i>	Sanborn & Phillips (1995b)	Sanborn et al. (2005)
<i>Neoconocephalus affinis</i>	Brush et al. (1985)	Walker (2009)
<i>Oecanthus quadripunctatus</i>	Forrest (1991)	Walker (2009)
<i>Okanagana hesperia</i>	Sanborn & Phillips (1995b)	Drew et al. (1974)
<i>Okanagana pallidula</i>	Sanborn & Phillips (1995b)	Davis (1917)
<i>Okanagana striatipes</i>	Sanborn & Phillips (1995b)	Davis (1930)
<i>Okanagana utahensis</i>	Sanborn & Phillips (1995b)	Davis (1919)
<i>Okanagodes gracilis</i>	Sanborn & Phillips (1995b)	Davis (1919)
<i>Okanagodes terlingua</i>	Sanborn & Phillips (1995b)	Sanborn (pers. com.)
<i>Ostrinia furnacalis</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Oxypleura lenihani</i>	Villet (1987)	Villet (1987)
<i>Pacarina puella</i>	Sanborn & Phillips (1995b)	Drew et al. (1974)
<i>Palpita nigropunctalis</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Panacanthus gibbosus</i>	Montealegre-Z & Morris (2004)	Montealegre-Z & Morris (2004)
<i>Panacanthus intensus</i>	Montealegre-Z & Morris (2004)	Montealegre-Z & Morris (2004)
<i>Panacanthus pallicornis</i>	Montealegre-Z & Morris (2004)	Montealegre-Z & Morris (2004)
<i>Panoploscelis specularis</i>	Montealegre-Z et al. (2003)	Montealegre-Z et al. (2003)
<i>Panoscelis specularis</i>	Montealegre-Z et al. (2003)	Montealegre-Z et al. (2003)
<i>Parascopioricus cordillericus</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Phragmatobia fuliginosa</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Platypleura argentata</i>	Villet (1987)	Villet (1987)
<i>Platypleura maytenophila</i>	Villet (1987)	Villet (1987)
<i>Platypleura zuluensis</i>	Villet (1987)	Villet (1987)
<i>Psorodonotus illyricus</i>	Keuper et al. (1988)	Keuper et al. (1988)
<i>Pycna semiclara</i>	Villet (1987)	Villet (1987)
<i>Pyrrharctia isabella</i>	Fullard & Fenton (1977)	Covell (2005)
<i>Rufoccephalus sp.</i>	Bailey et al. (2001)	Bailey et al. (2001)
<i>Scapteriscus borelii</i>	Forrest (1991)	Nickle (2003)
<i>Scapteriscus vicinus</i>	Forrest (1991)	Walker (2009)
<i>Sciarasaga quadrata</i>	Römer & Bailey (1998)	Römer & Bailey (1998)
<i>Scopioricus spatulatus</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Scopiorinus carinulatus</i>	Morris & Beier (1982)	Morris & Beier (1982)
<i>Scopiorinus impressopunctatus</i>	Morris & Beier (1982)	Morris & Beier (1982)
<i>Spilosoma punctarium</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Spodoptera litura</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Spoladea recurvalis</i>	Nakano et al. (2009)	Esaki et al. (1957)
<i>Symmoracma minoralis</i>	Heller & Krahe (1994)	Heller & Krahe (1994)
<i>Teleogryllus commodus</i>	Kavanagh (1987)	Otte & Alexander (1983)
<i>Teleutias fasciatus</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Tettigonia cantans</i>	Latimer & Schatral (1986)	Keuper et al. (1988)
<i>Tettigonia viridissima</i>	Keuper et al. (1988)	Keuper et al. (1988)
<i>Tibicina corsica fairmairei</i>	Sueur & Sanborn (2003)	Sueur (2002)
<i>Tibicina garricola</i>	Sueur & Sanborn (2003)	Sueur (2002)
<i>Tibicina tomentosa</i>	Sueur & Sanborn (2003)	Sueur (2002)
<i>Trichotettix pilosula</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Triencentrus atosignatus</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Tympanistalna gastrica</i>	Michelsen & Fonseca (2000)	Fonseca & Bennet-Clark (1998)
<i>Typophyllum bolivari</i>	Morris et al (1988)	Morris et al. (1988)
<i>Typophyllum mortuifolium</i>	Morris et al (1988)	Morris et al. (1988)
<i>Typophyllum zingara</i>	Montealegre-Z & Morris (1999)	Montealegre-Z & Morris (1999)
<i>Uchuca amacayaca</i>	Montealegre-Z & Morris (2003)	Montealegre-Z & Morris (2003)

## Mammal

<i>Arctocephalus pusillus doriferus</i>	Tripovitch et al. (2008)	Swolgaard (2002)
<i>Arctocephalus tropicalis</i>	Charrier et al. (2002)	Hiller (2000)
* <i>Balaena mysticetus</i>	Kuperman & Roux (2006)	Justice (2002)
* <i>Balaenoptera musculus</i>	Kuperman & Roux (2006)	Dewey & Fox (2002)
* <i>Balaenoptera physalus</i>	Kuperman & Roux (2006)	Fox (2001)
<i>Bison bison</i>	Wyman et al. (2008)	Newell & Sorin. (2003)
<i>Callithrix jacchus</i>	Brumm et al. (2004)	Cover (2000)
<i>Elephas maximus</i>	Payne et al. (1986)	Ciszek (1999)
* <i>Eschrichtius robustus</i>	Kuperman & Roux (2006)	Nowak (2003)
* <i>Eubalaena australis</i>	Kuperman & Roux (2006)	Smith (2000)
* <i>Hippopotamus amphibius</i>	Barklow (2002)	Shefferly (2001)
<i>Homo sapiens</i>	Ferguson et al (2008)	Australian Bureau of Statistics (1998)
<i>Homo sapiens</i>	Pinczower & Oates (2005)	Australian Bureau of Statistics (1998)
<i>Homo sapiens</i>	Pinczower & Oates (2005)	Australian Bureau of Statistics (1998)
<i>Loxodonta africana</i>	Poole et al. (1988)	Norwood (2002)
* <i>Megaptera novaeangliae</i>	Thompson et al. (1986)	Spitz et al. (2002)
<i>Mirounga angustirostris</i>	Sanvito & Galimberti (2003)	Sanvito & Galimberti (2003)
<i>Mirounga leonina</i>	Sanvito & Galimberti (2003)	Sanvito & Galimberti (2003)
<i>Myotis septentrionalis</i>	Miller & Treat (1993)	Ollendorff (2002)
<i>Neophoca cinerea</i>	Charrier et al. (2009)	Hoglund (2003)
* <i>Orcinus orca</i>	Miller (2006)	Burnett et al. (2009)
<i>Papio cynocephalus ursinus</i>	Kitchen et al. (2003)	Kitchen et al. (2003)
* <i>Physeter macrocephalus</i>	Kuperman & Roux (2006)	Nowak (2003)
<i>Saccopteryx bilineata</i>	Behr et al. (2006)	Charles-Dominique et al. (2001)
* <i>Stenella longirostris</i>	Kuperman & Roux (2006)	Bull (1999)
* <i>Tursiops truncatus</i>	Au (1993)	Jenkins & Myers (2009)

## Reptile

<i>Alligator mississippiensis</i>	Barklow (2004)	Pajerski et al. (2000)
<i>Gekko gekko</i>	Brillet & Paillette (1991)	Corl (1999)

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