

**Appendix S1** Database of predator body mass values and prey body mass values, including sources.

Tucker & Rogers: Examining the prey mass of terrestrial and aquatic carnivorous mammals: minimum, maximum and range.

Species	log10 Minimum Prey Mass (kg)	log 10 Maximum Prey Mass(kg)	log10 Prey Mass Range (kg)	log10 Predator Mass (kg)	Environment	Prey Mass Souce	Predator Diet Source
<i>Arctocephalus_gazella</i>	-3.222	0.647	0.647	2.532	Marine	Ross et al. 2004; Culik et al. 1994	Ciaputa et al 2006
<i>Arctocephalus_tropicalis</i>	-3.222	-0.493	-0.493	2.520	Marine	Ross et al. 2004; Nel et al. 2001	Ciaputa et al 2006; Robinson et al. 2003
<i>Balaena_mysticetus</i>	-5.000	-0.088	-0.088	5.492	Marine	Pomerleau et al. 2011	Pomerleau et al. 2011
<i>Balaenoptera_acutorostrata</i>	-4.641	-1.301	-1.301	3.747	Marine	Mizdalski 1988; Cardinale & Arrhernius, 2000	Smout et al. 2007; Weslawski et al. 2006
<i>Balaenoptera_borealis</i>	-4.641	-1.301	-1.301	4.345	Marine	Mizdalski 1988; Cardinale & Arrhernius, 2000	Flinn et al. 2002
<i>Balaenoptera_edeni</i>	-4.469	-0.426	-0.426	4.301	Marine	Gomez-Gutierrez et al. 1996; Cervigon et al. 1992; Froese and Pauly, 2011	Froese and Pauly, 2011; Hart et al. 1973; Tershy 1992; Weslawski et al. 2006
<i>Balaenoptera_musculus</i>	-5.117	-3.222	-3.227	5.188	Marine	Omori 1969; Ross et al. 2004	Mizdalski 1988; Fiedler 1998
<i>Balaenoptera_physalus</i>	-4.469	-1.564	-1.564	4.677	Marine	Gomez-Gutierrez et al. 1996; Van Pelt et al. 1997	Tershy et al. 1993; Weslawski et al 2006
<i>Berardius_amuxii</i>	-1.538	-0.438	-0.474	3.845	Marine	Walker 2002	Jefferson et al. 1993; Culik 2010
<i>Berardius_bairdii</i>	-1.538	-0.438	-0.474	4.056	Marine	Walker 2002	Walker et al. 2002
<i>Callorhinus_ursinus</i>	-3.620	0.216	0.216	1.744	Marine	Kurle et al. 2001	Kurle et al. 2001
<i>Caperea_marginata</i>	-7.042	-3.222	-3.222	4.505	Marine	Mizdalski 1988; Ross et al. 2004	Kemper et al. 2002
<i>Cephalorhynchus_commersonii</i>	-1.602	-1.387	-1.796	1.860	Marine	Clarke et al. 1994	Clarke et al. 1994
<i>Cephalorhynchus_heavisidii</i>	-0.398	0.559	0.509	1.875	Marine	Augustyn 1990; Eder et al. 2005	Sekiguchi et al. 1992; Elwin et al. 2006; Eder et al. 2005
<i>Cephalorhynchus_hectori</i>	-4.000	0.108	0.108	1.699	Marine	Rayment & Webster 2009	Rayment & Webster 2009
<i>Cystophora_cristata</i>	-4.469	0.845	0.845	3.565	Marine	Gomez-Gutierrez et al. 1996; Julshamn et al. 2004	Hammil 2000
<i>Delphinapterus_leucas</i>	-3.301	-1.476	-1.483	4.176	Marine	Weslawski et al. 2006; Welch et al. 1993	Dahl et al. 2000
<i>Delphinus_delphis</i>	-1.602	0.163	0.156	1.899	Marine	Bykov 1983 ; Eder et al. 2005	Romero et al. 2011
<i>Enhydra_lutris</i>	-2.564	1.079	1.079	2.439	Marine	Kvitek et al. 1992; Harrison et al. 1965	Wolt et al. 2012
<i>Erignathus_barbatus</i>	-4.301	-3.301	-3.347	2.447	Marine	Weslawski et al. 2006	Hjelset et al. 1990
<i>Eschrichtius_robustus</i>	-5.921	-1.367	-1.367	4.238	Marine	Weslawski et al 2006; Pritchard et al. 1979	Dunham et al. 2002
<i>Eubalaena_glacialis</i>	-7.523	-6.097	-6.114	4.602	Marine	Cohen et al. 1981; Weslawski et al. 2006	Mayo et al. 1990
<i>Eumetopias_jubatus</i>	-3.620	0.020	0.019	3.436	Marine	Kurle et al. 2001	Sinclair et al. 2002; Womble et al. 2006
<i>Feresa_attenuata</i>	-2.959	-0.112	-0.113	2.230	Marine	Santos et al. 1997; Santos et al. 1998	Zerbini et al. 1997

<i>Globicephala_melas</i>	-2.347	0.357	0.356	3.097	Marine	Jackson et al. 2000	Clarke et al. 1994
<i>Halichoerus_grypus</i>	-2.921	0.643	0.643	2.920	Marine	Van Pelt et al. 1997; Kjesbu 1989	Hammill et al. 2000; Weslawski et al. 2006; Vilhjálmsón et al. 2002; Van Pelt et al. 1997
<i>Hydrurga_leptonyx</i>	-3.300	2.305	2.305	3.536	Marine	Mizdalski 1988; Adam 2005	Hall Apsland et al. 2004
<i>Hyperoodon_ampullatus</i>	-2.921	-0.072	-0.073	3.826	Marine	Pusineri et al. 2007	Hooker et al. 1999
<i>Kogia_breviceps</i>	-3.398	0.316	0.316	2.560	Marine	West et al. 2009	West et al. 2009
<i>Lagenorhynchus_obliquoidens</i>	-1.658	-0.559	-0.595	2.079	Marine	Vilhjálmsón 2002; Kurle et al. 2001	Morton et al. 2000
<i>Leptonychotes_weddellii</i>	-3.300	0.011	0.011	3.615	Marine	Mizdalski 1988; Artigues et al. 2003	Casaux et al. 2006; O'Driscoll et al. 2011; Kock et al. 2008; Artigues et al. 2003
<i>Lissodelphis_borealis</i>	-2.854	-1.097	-1.105	2.061	Marine	Watanabe et al. 1999	Jefferson et al. 2003
<i>Lobodon_carcinophaga</i>	-3.300	-0.919	-0.921	3.398	Marine	Mizdalski 1988; Artigues et al. 2003	Artigues et al. 2003; Huckstadt et al. 2012; Mizdalski 1988
<i>Lontra_canadensis</i>	-4.602	0.643	0.643	1.973	Marine	Miron et al. 1990; Kjesbu 1989	Reid et al. 1994; Noguchi et al. 1991; Palace et al. 2001
<i>Megaptera_novaeangliae</i>	-4.653	-4.459	-4.903	5.518	Marine	Mizdalski 1988; Omori 1969	Friedlaender et al. 2008; Mizdalski 1988
<i>Mesoplodon_carlhubbsi</i>	-1.097	-0.479	-0.599	3.176	Marine	Clarke et al. 1998	MacLeod et al. 2003
<i>Mesoplodon_densirostris</i>	-3.854	0.362	0.362	3.000	Marine	Childress 1971; Nakamura and Parin, 1993	Clarke et al. 1994; MacLeod et al. 2003; Belman et al. 1976; Ruiz-Capilla et al. 2001
<i>Mesoplodon_layardii</i>	-1.449	-0.247	-0.275	3.114	Marine	MacLeod et al. 2003	MacLeod et al. 2003
<i>Mesoplodon_mirus</i>	-1.983	-1.018	-1.067	3.146	Marine	MacLeod et al. 2003; Beasley et al. 2013	MacLeod et al. 2003; Clarke et al. 1994
<i>Mirounga_angustirostris</i>	-3.300	1.732	1.732	4.084	Marine	Mizdalski 1988; Kohler et al. 1995	Antonelis et al. 1987; Condit et al. 1984
<i>Mirounga_leonina</i>	-3.300	-0.100	-0.100	4.182	Marine	Mizdalski 1988; Slip 1995	Slip 1995
<i>Monodon_monoceros</i>	-3.155	-0.509	-0.510	4.114	Marine	Weslawski et al. 1994; Lucassen et al. 2006	Finley et al. 1982
<i>Ommatophoca_rossii</i>	-2.046	-0.060	-0.064	2.301	Marine	Skinner et al. 1994	Skinner et al. 1994
<i>Orcinus_orca</i>	0.527	3.747	3.747	4.752	Marine	Artigues et al. 2003; Jones et al. 2009	Pitman et al. 2003
<i>Otaria_flavescens</i>	-3.699	-0.366	-0.366	3.371	Marine	Clausen et al. 2003	Thompson et al. 1998; Eder et al. 2005; Clarke et al. 1994; Clausen et al. 2003
<i>Phoca_vitulina</i>	-2.824	-0.697	-0.700	2.498	Marine	Bowen et al. 1994	Bowen et al. 1994
<i>Phocarcos_hookeri</i>	-2.699	0.787	0.786	3.107	Marine	Meynier et al. 2009	Meynier et al. 2009
<i>Phocoena_phocoena</i>	-3.301	0.580	0.580	2.740	Marine	Smith 1963; Julshamn et al. 2004	Santos et al. 2004
<i>Physeter_catodon</i>	-1.301	0.248	0.236	4.428	Marine	Gaskin et al. 1967	Gaskin et al. 1967
<i>Pontoporia_blainvillei</i>	-2.796	-0.824	-0.829	1.473	Marine	Santos et al. 1998; Bolasina	Rodriguez et al. 2002

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<i>Sotalia fluviatilis</i>	-1.301	-0.767	-0.917	2.740	Marine	Godoy et al. 2002; Lapa-Guimaraes et al. 2005	Borobia et al. 1989
<i>Sotalia guianensis</i>	-1.523	-0.767	-0.850	2.903	Marine	Godoy et al. 2002; Lapa-Guimaraes et al. 2005	Godoy et al. 2002; Lapa-Guimaraes et al. 2005; Di Benedetto et al. 2007
<i>Tursiops truncatus</i>	-3.301	0.643	0.643	3.556	Marine	Smith 1969; Kjesbut 1989	Santos et al. 2001; Skog et al. 2003; Kjesbu et al. 1989; Anderson et al. 2005
<i>Ursus maritimus</i>	-0.783	4.114	4.114	2.486	Marine	Taylor 1994; Jones et al. 2009	Iverson et al. 2013
<i>Zalophus californianus</i>	-1.745	1.732	1.732	2.927	Marine	Hunter et al. 1980; Kohler et al. 1995	Lowry et al. 1991; Hunter et al. 1980; Williamson et al. 1984; Quiral et al. 2009
<i>Ziphius cavirostris</i>	-2.745	0.541	0.541	3.470	Marine	Pusineri et al. 2007; Lordan et al. 2001	Santos et al. 2001; Pusineri et al. 2007; Xavier et al. 2002
<i>Pusa hispida</i>	-4.000	-2.000	-2.004	1.852	Marine	Weslawski et al. 1994	Weslawski et al. 1994
<i>Acinonyx jubatus</i>	-0.301	2.740	2.740	1.699	Terrestrial	Hayward et al. 2006	Hayward et al. 2006
<i>Bassariscus sumichrasti</i>	NA	0.363	NA	-0.125	Terrestrial	Jones et al. 2009	Estrada et al. 1985
<i>Canis adustus</i>	-5.614	0.415	0.415	0.932	Terrestrial	Redford et al. 1984; Jones et al. 2009	Atkinson et al. 2002
<i>Canis aureus</i>	-1.714	-0.234	-0.249	0.995	Terrestrial	Jones et al. 2009	Jaeger et al. 2007
<i>Canis latrans</i>	-0.127	2.665	2.664	1.128	Terrestrial	Jones et al. 2009	Theberge et al. 1989
<i>Canis lupus</i>	0.582	2.796	2.793	1.633	Terrestrial	Jones et al. 2009	Metz et al. 2012; Nowak et al. 2011
<i>Canis simensis</i>	-1.135	2.791	2.791	1.161	Terrestrial	Jones et al. 2009	Marino et al. 2010
<i>Cerdocyon thous</i>	-1.602	-0.006	-0.017	1.114	Terrestrial	Wolcott 1978; Jones et al. 2009	Gatti et al. 2006
<i>Crocuta crocuta</i>	1.021	3.186	3.183	0.760	Terrestrial	Jones et al. 2009	Hayward et al. 2006
<i>Eira barbara</i>	-2.699	-0.125	-0.126	1.813	Terrestrial	Paoletti et al. 2000; Jones et al. 2009	Presley et al. 2000
<i>Caracal caracal</i>	-3.457	1.194	1.194	0.650	Terrestrial	Varma et al. 1990; Jones et al. 2009	Avenant et al. 2002
<i>Felis catus</i>	-3.631	0.544	0.544	0.531	Terrestrial	Brooks et al. 1996. ; Kutt 2012	Kutt 2012; Paltridge et al. 1997
<i>Felis chaus</i>	-3.545	-0.860	-0.861	0.817	Terrestrial	de los Sanots Gomez 2013; Jones et al. 2009	Mukherjee et al. 2004; Mohammad 2008
<i>Genetta tigrina</i>	NA	0.687	NA	0.332	Terrestrial	Jones et al. 2009	Ray et al. 2001; Sanchez et al. 2009
<i>Gulo gulo</i>	-2.147	2.682	2.682	1.333	Terrestrial	Jones et al. 2009	Myhre et al. 1975
<i>Leopardus pardalis</i>	-2.097	0.602	0.601	1.000	Terrestrial	Meza et al. 2002; Jones et al. 2009	Wang 2002
<i>Leopardus wiedii</i>	-1.367	0.579	0.574	0.560	Terrestrial	Jones et al. 2009	Wang 2002
<i>Leptailurus serval</i>	-3.222	-0.652	-0.653	1.079	Terrestrial	Defoliarte 1995; Jones et al. 2009	Thiel 2011
<i>Lycaon pictus</i>	0.246	2.750	2.749	1.431	Terrestrial	Jones et al. 2009	Hayward et al. 2006

<i>Lynx canadensis</i>	-1.714	1.258	1.257	1.009	Terrestrial	Jones et al. 2009	Poole 2003
<i>Lynx lynx</i>	-2.037	2.682	2.682	1.477	Terrestrial	Jones et al. 2009	Odden et al. 2006
<i>Lynx pardinus</i>	NA	2.382	NA	1.043	Terrestrial	Jones et al. 2009	Gil-Sanchez et al. 2006
<i>Lynx rufus</i>	-2.180	0.460	0.459	1.055	Terrestrial	Robertson et al. 1982	Delibes et al. 1988
<i>Martes foina</i>	-2.866	1.676	1.676	0.255	Terrestrial	Speiser et al. 2001; Jones et al. 2009	Bakaloudis et al. 2011
<i>Martes martes</i>	-3.721	2.167	2.167	0.394	Terrestrial	Clark et al. 1973; Jones et al. 2009	Caryl 2008
<i>Martes pennanti</i>	-1.714	2.167	2.167	0.502	Terrestrial	Jones et al. 2009	Giuliano et al. 1989
<i>Meles meles</i>	-2.727	-1.058	-1.067	0.972	Terrestrial	Ma et al. 1993; Jones et al. 2009	Virgos et al. 2004; Goszczynski et al. 2000
<i>Mungos mungo</i>	-3.222	-2.456	-2.538	0.158	Terrestrial	Defoliarte 1995; Dejean et al. 2001	Rood 1975
<i>Mustela erminea</i>	-3.921	-1.467	-1.469	-0.568	Terrestrial	Martinoli et al. 2001	Martinoli et al. 2001
<i>Mustela frenata</i>	-1.738	0.407	0.404	-0.823	Terrestrial	Jones et al. 2009	Wilson et al. 1996
<i>Mustela nivalis</i>	-1.684	-1.500	-1.963	-1.055	Terrestrial	Jones et al. 2009	Jedrzejewska et al. 1995
<i>Mustela putorius</i>	-2.585	-1.570	-1.614	-0.092	Terrestrial	Jones et al. 2009	Lode 1997
<i>Neovison vison</i>	-3.509	0.272	0.272	0.037	Terrestrial	Coutts et al. 1973; Wright 1990	Jedrzejewska et al. 2001
<i>Nasua nasua</i>	-3.222	0.041	0.041	0.672	Terrestrial	Defoliarte 1995; Jones et al. 2009	Alves-Costa et al. 2004
<i>Nyctereutes procyonoides</i>	-2.727	-1.358	-1.376	0.783	Terrestrial	Ma et al. 1993; Jones et al. 2009	Baltrunaite 2002
<i>Otocyon megalotis</i>	-3.222	-3.117	-3.785	0.618	Terrestrial	Defoliarte 1995;	Kuntzsch et al. 1992
<i>Panthera leo</i>	1.653	2.740	2.703	2.312	Terrestrial	Hayward et al. 2005	Hayward et al. 2005
<i>Panthera onca</i>	0.305	2.464	2.461	1.924	Terrestrial	Jones et al. 2009	Weckel et al. 2006
<i>Panthera pardus</i>	0.000	2.635	2.634	1.685	Terrestrial	Hayward et al. 2006	Hayward et al. 2006
<i>Panthera tigris</i>	0.699	3.435	3.434	2.049	Terrestrial	Hayward et al. 2012	Hayward et al. 2012
<i>Procyon lotor</i>	-3.883	0.653	0.653	1.028	Terrestrial	Smith 2002; Delapane et al. 1999	Schoonover et al. 1951
<i>Proteles cristata</i>	-3.222	-2.405	-2.476	1.000	Terrestrial	Defoliarte 1995; Punzo 1998	deVries et al. 2011
<i>Puma concolor</i>	-0.445	1.325	1.318	1.954	Terrestrial	Jones et al. 2009	Moreno et al. 2006
<i>Spilogale putorius</i>	-3.222	0.082	0.082	-0.222	Terrestrial	Defoliarte 1995; Jones et al. 2009	Munoz-Garcia et al 2005; Crabb 1941
<i>Taxidea taxus</i>	-5.319	-0.488	-0.488	0.935	Terrestrial	Magnarelli 1983; Jones et al. 2009	Michiner et al. 2004; Sovada et al 1999
<i>Vulpes cana</i>	-3.222	0.311	0.311	-0.013	Terrestrial	Defoliarte 1995; Jones et al. 2009	Geffen et al. 1992
<i>Vulpes lagopus</i>	-4.169	2.038	2.038	0.698	Terrestrial	Ring et al. 1980; Jones et al. 2009	Haim et al. 2004; Elmhagen et al. 2000
<i>Vulpes macrotis</i>	-4.171	0.477	0.477	0.653	Terrestrial	Legaspi et al. 1993; Jones et al. 2009	Munoz-Garcia et al. 2005; List et al. 2003
<i>Vulpes ruepellii</i>	-3.222	-1.155	-1.159	0.512	Terrestrial	Defoliarte 1995; Jones et al. 2009	Williams et al. 2002

<i>Vulpes_velox</i>	-1.803	1.676	1.676	0.322	Terrestrial	Jones et al. 2009	Sovada et al. 2001
<i>Vulpes_vulpes</i>	-3.635	-1.071	-1.072	0.814	Terrestrial	Warburg 1968; Jones et al. 2009	Jedrzejewski et al. 1992

## Appendix S1 References

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