

Figure 2-Alpha and Beta

Source	Species	# of Individuals	Estimated	Family	Group	ALPHA	B	BETA	ALPHA	C
Rumohr, Brey and Ankar, 1987	Arctica islandica	45	Reported	Arctidae	Bivalve	0.032	0.499			
Steimle and Terranova, 1985	Arctica islandica	294	Reported	Arctidae	Bivalve	0.025	0.480			
Brey et al., 2010	Arctidae	2	Reported	Arctidae	Bivalve	0.039	0.560			
Stoker, 1978	Astarte borealis	5	Estimated	Astartidae	Bivalve	0.033			0.015	
Rumohr, Brey and Ankar, 1987	Astarte borealis	202	Reported	Astartidae	Bivalve	0.051	0.664			
Rumohr, Brey and Ankar, 1987	Astarte elliptica	329	Reported	Astartidae	Bivalve	0.059	0.745			
Rumohr, Brey and Ankar, 1987	Astarte montagui	97	Reported	Astartidae	Bivalve	0.050	0.676			
Rumohr, Brey and Ankar, 1987	Astarte sulcata	7	Reported	Astartidae	Bivalve	0.062	0.445			
Steimle and Terranova, 1985	Astarte undata	14	Reported	Astartidae	Bivalve	0.029	0.800			
Brey et al., 2010	Astartidae	1	Reported	Astartidae	Bivalve	0.057				
Stoker, 1978	Clinocardium ciliatum	9	Reported	Cardiidae	Bivalve	0.050			0.022	
Rumohr, Brey and Ankar, 1987	Cardium edule	5	Estimated	Cardiidae	Bivalve	0.075	0.236			
Rumohr, Brey and Ankar, 1987	Cardium fasciatum	146	Reported	Cardiidae	Bivalve	0.080	0.236			
Rumohr, Brey and Ankar, 1987	Cardium glaucum	239	Reported	Cardiidae	Bivalve	0.052	0.479			
Ricciardi and Bourget, 1998	Cerastoderma edule	5	Estimated	Cardiidae	Bivalve	0.036				
Ricciardi and Bourget, 1998	Clinocardium ciliatum	5	Estimated	Cardiidae	Bivalve	0.030	0.656			
Stoker, 1978	Serripes groenlandicus	299	Reported	Cardiidae	Bivalve	0.079			0.033	
Ricciardi and Bourget, 1998	Serripes groenlandicus	5	Estimated	Cardiidae	Bivalve	0.110				
Stoker, 1978	Cyclocardia crebicosata	5	Estimated	Carditidae	Bivalve	0.033			0.014	
Steimle and Terranova, 1985	Cyclocardia borealis	8	Reported	Carditidae	Bivalve	0.009	0.740			
Brey et al., 2010	Carditidae	2	Reported	Carditidae	Bivalve	0.016	0.785			
Rumohr, Brey and Ankar, 1987	Corbula (Aloidis) gibba	419	Reported	Corbulidae	Bivalve	0.063				
Stoker, 1978	L. norvegica	5	Estimated	Lyonsiidae	Bivalve	0.037			0.018	
Steimle and Terranova, 1985	Spisula solidissima	21	Reported	Macridae	Bivalve	0.045	0.420			
Ricciardi and Bourget, 1998	Spisula subtruncata	1	Estimated	Macridae	Bivalve	0.048				
Brey et al., 2010	Macridae	2	Reported	Macridae	Bivalve	0.039	0.385			
Rumohr, Brey and Ankar, 1987	Mysella (Montacuta) bidentata	411	Reported	Montacutidae	Bivalve	0.062				
Ricciardi and Bourget, 1998	Mya arenaria	5	Estimated	Myidae	Bivalve	0.065	0.519			
Rumohr, Brey and Ankar, 1987	Mya spp.	297	Reported	Myidae	Bivalve	0.063	0.368			
Ricciardi and Bourget, 1998	Mya truncata	1	Estimated	Myidae	Bivalve	0.105				
Ricciardi and Bourget, 1998	Choromytilus meridionalis	1	Estimated	Mytilidae	Bivalve	0.053	0.661			
Stoker, 1978	Musculus niger	5	Estimated	Mytilidae	Bivalve	0.052			0.025	
Rumohr, Brey and Ankar, 1987	Modiola modiolus	1	Estimated	Mytilidae	Bivalve	0.032				
Steimle and Terranova, 1985	Modiolus modiolus	8	Reported	Mytilidae	Bivalve	0.046	0.520			
Ricciardi and Bourget, 1998	Mytilus edulis	6	Estimated	Mytilidae	Bivalve	0.046	0.362			
Rumohr, Brey and Ankar, 1987	Mytilus edulis	436	Reported	Mytilidae	Bivalve	0.039	0.315			
Ricciardi and Bourget, 1998	Mytilus galloprovincialis	1	Estimated	Mytilidae	Bivalve	0.072				
Brey et al., 2010	Mytilidae	12	Reported	Mytilidae	Bivalve	0.077	0.520			
Palmerini and Bianchi, 1994	Mytilus galloprovincialis	31	Reported	Mytilidae	Bivalve	0.076	0.673			
This study	Mytilidae	10	Reported	Mytilidae	Bivalve	0.031	0.473			
Rumohr, Brey and Ankar, 1987	Leda pernula	1	Estimated	Nuculanidae	Bivalve	0.039				
Stoker, 1978	Nucula radiata	5	Estimated	Nuculanidae	Bivalve	0.041			0.019	
Gebmeier, 1987	Nuculanidae	5	Estimated	Nuculanidae	Bivalve				0.047	
Brey et al., 2010	Nuculanidae	4	Reported	Nuculanidae	Bivalve	0.077				
Stoker, 1978	Nucula tenuis	5	Estimated	Nuculidae	Bivalve	0.076			0.039	
Steimle and Terranova, 1985	Nucula proxima	3	Reported	Nuculidae	Bivalve	0.039	0.430			
Brey et al., 2010	Nuculidae	1	Reported	Nuculidae	Bivalve	0.078				
Ricciardi and Bourget, 1998	Crassostrea virginica	2	Estimated	Ostreidae	Bivalve	0.017				
Steimle and Terranova, 1985	Chlamys islandicus	3	Reported	Pectinidae	Bivalve	0.057	0.500			
Ricciardi and Bourget, 1998	Pecten spp.	2	Estimated	Pectinidae	Bivalve	0.050	0.550			
Steimle and Terranova, 1985	Placopecten magellanicus	15	Reported	Pectinidae	Bivalve	0.052	0.440			
Rumohr, Brey and Ankar, 1987	Abra alba	1345	Reported	Semelidae	Bivalve	0.056	0.247			
Rumohr, Brey and Ankar, 1987	Abra longicallus	1	Estimated	Semelidae	Bivalve	0.071				
Rumohr, Brey and Ankar, 1987	Abra nitida	1	Estimated	Semelidae	Bivalve	0.078				
Stoker, 1978	Macoma calcarea	2463	Reported	Tellinidae	Bivalve	0.070	0.420		0.035	
Rumohr, Brey and Ankar, 1987	Macoma balthica	608	Reported	Tellinidae	Bivalve	0.087	0.452			
Rumohr, Brey and Ankar, 1987	Macoma calcarea	42	Reported	Tellinidae	Bivalve	0.071				
Stoker, 1978	Tellina lutea	2	Estimated	Tellinidae	Bivalve	0.083			0.038	
Stoker, 1978	Liocyma fluctuosa	5	Estimated	Veneridae	Bivalve	0.060			0.028	
Brey et al., 2010	Veneridae	4	Reported	Veneridae	Bivalve	0.032				
Me from box	Veneridae	13	Reported	Veneridae	Bivalve	0.026	0.590			
Stoker, 1978	Yoldia hyperborea	5	Estimated	Yoldiidae	Bivalve	0.095			0.047	
Brey et al., 2010	Yoldiidae	3	Reported	Yoldiidae	Bivalve	0.108				
Guedes et al., 1981	Ampullaria canaliculata	88	Reported	Ampullariidae	Gastropod			0.227		
Rumohr, Brey and Ankar, 1987	Apophaisa pespelicani	5	Estimated	Apophaisidae	Gastropod	0.047				
Steimle and Terranova, 1985	Buccinum undatum	8	Reported	Buccinidae	Gastropod	0.077	0.600			
Rumohr, Brey and Ankar, 1987	Buccinum undatum	2	Estimated	Buccinidae	Gastropod	0.111				
Stoker, 1978	Buccinum sp.	2	Estimated	Buccinidae	Gastropod	0.177			0.085	
Ricciardi and Bourget, 1998	Buccinum undatum	8	Reported	Buccinidae	Gastropod	0.105	0.435			
Stoker, 1978	Colus sp.	2	Estimated	Buccinidae	Gastropod	0.117			0.057	
Steimle and Terranova, 1985	Colus stimpsoni	4	Reported	Buccinidae	Gastropod	0.048	0.610			
Stoker, 1978	Neptunea sp.	2	Estimated	Buccinidae	Gastropod	0.102			0.048	
Brey et al., 2010	Buccinidae	2	Reported	Buccinidae	Gastropod	0.117				
Steimle and Terranova, 1985	Busycon canaliculatum	5	Reported	Busyconidae	Gastropod	0.061	0.500			
Steimle and Terranova, 1985	Busycon carica	3	Reported	Busyconidae	Gastropod	0.044	0.640			
Rumohr, Brey and Ankar, 1987	Hydrobia spp.	110	Reported	Hydrobiinae	Gastropod	0.137	0.563			
Rumohr, Brey and Ankar, 1987	Littorina littora	5	Estimated	Littorinidae	Gastropod	0.093				
This Study	Littorinidae	5	Reported	Littorinidae	Gastropod	0.040	0.792			
Stoker, 1978	Margarites sp.	1	Estimated	Margaritidae	Gastropod	0.065			0.030	
Stoker, 1978	Natica clausa	1	Estimated	Naticidae	Gastropod	0.157			0.073	
Steimle and Terranova, 1985	Polinices heros	8	Reported	Naticidae	Gastropod	0.080	0.460			
Brey et al., 2010	Naticidae	2	Reported	Naticidae	Gastropod	0.166				
Stoker, 1978	Polinices sp.	1	Estimated	Naticidae	Gastropod	0.186			0.087	
Rumohr, Brey and Ankar, 1987	Theodoxus fluviatilis	263	Reported	Neritidae	Gastropod	0.095	0.566			
Rumohr, Brey and Ankar, 1987	Paludestrina (Potamopyrgus) jenkinsi	37	Reported	Tateidae	Gastropod	0.124				
Palmer, 1982	Thais spp.	67	Reported	Muricidae	Gastropod			0.727		
This study	Nucella sp.	9	Reported	Muricidae	Gastropod	0.026	0.743			
Cravo et al., 2004	Patella aspera	25	Reported	Patellidae	Limpet			0.895		
Steimle and Terranova, 1985	Terebratulina septentrionalis	4	Reported	Cancellothyri	Brachiopod	0.011	0.240			
This study	Cancellothyrididae	7	Reported	Cancellothyri	Brachiopod	0.007	0.410			
Brey et al., 2010	Balanidae	3	Reported	Balanidae	Barnacle	0.019				
This study	Balanidae	6	Reported	Balanidae	Barnacle	0.007	0.781			

Figure 4-Models Values

Family	Mass model coefficients		Linear-dimension model coefficients			Source
	ALPHA_B	BETA	a	b	Linear Dimension used	
Cancelothyrididae	0.0067		0.41	0.0101	-0.128 Posterior to Anterior	
Laqueidae	0.0064		0.305	0.000002	2.9207 Posterior to Anterior	
Balanidae	0.0068		0.781	0.00009	1.8404 Dorsal to ventral	
Muricidae	0.026		0.743	0.0001	1.9325 Posterior to Anterior	
Mytilidae	0.0315		0.473	0.00002	2.4896 Dorsal to ventral	
Litorinidae	0.04		0.7915	0.0841	-0.237 Posterior to Anterior	
Terebratalidae	0.0127		0.443	0.00001	2.696 Posterior to Anterior	
Veneridae	0.0256		0.597	0.0097	1.1781 Dorsal to ventral	
Muricidae*	1		0.7272	0.002	2.8108 Posterior to Anterior	Palmer, 1982

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