

## Distributional overlap rather than habitat differentiation characterizes co-occurrence of bivalves in intertidal soft sediment systems

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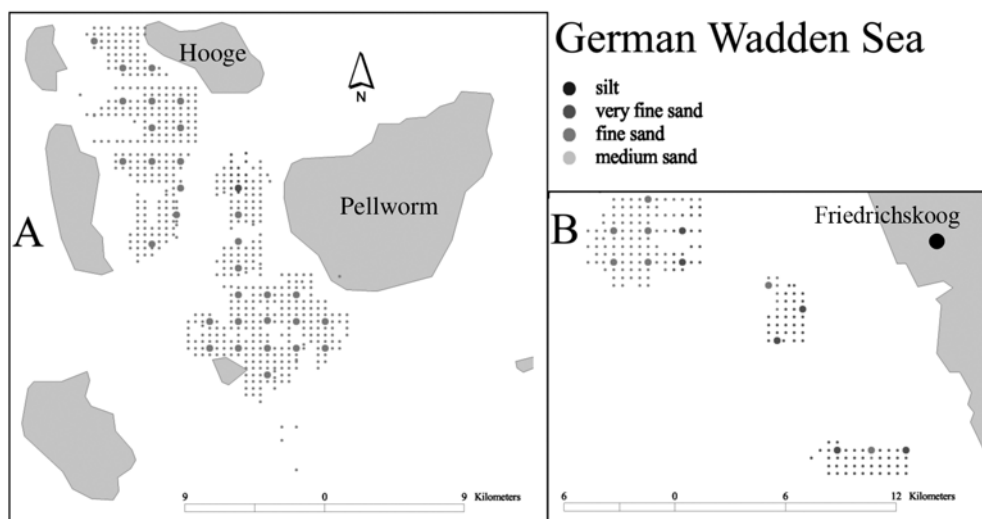
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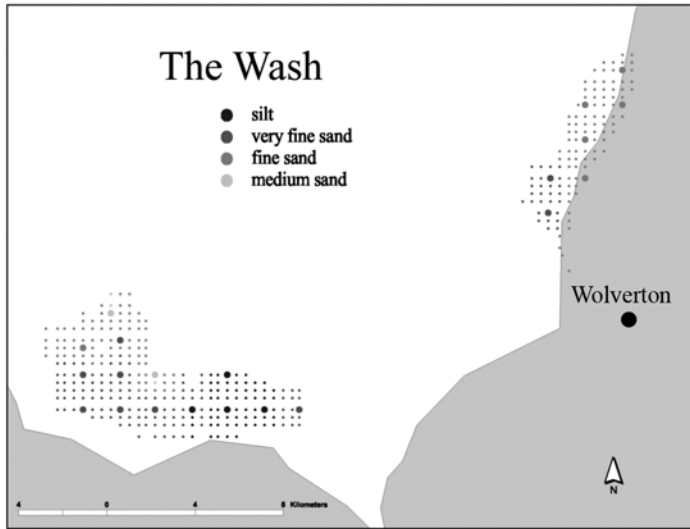
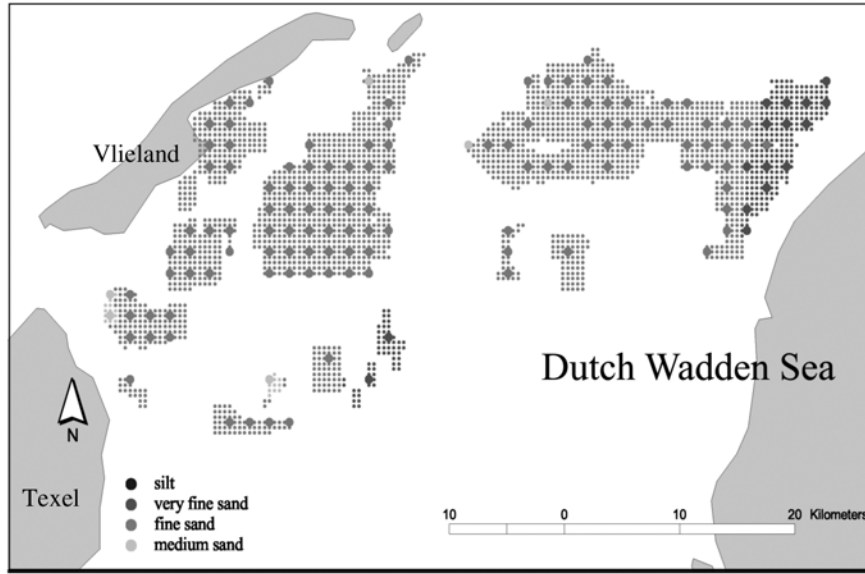
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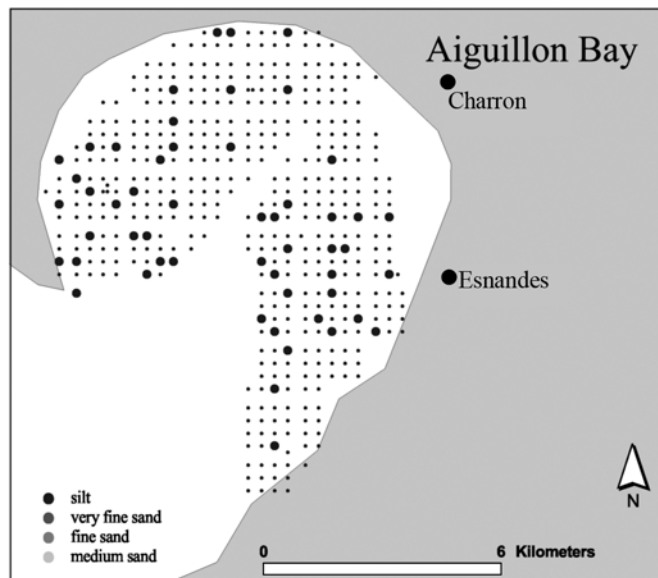
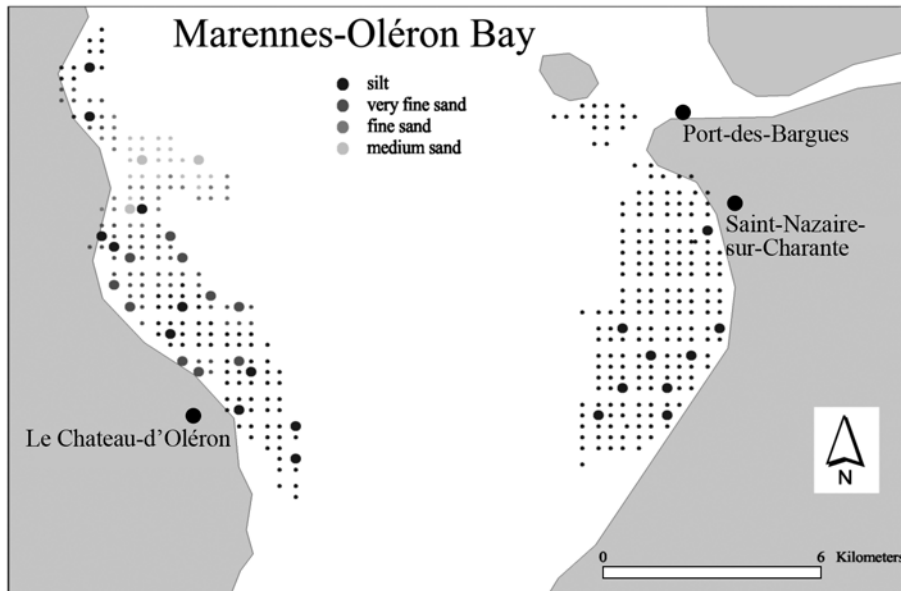
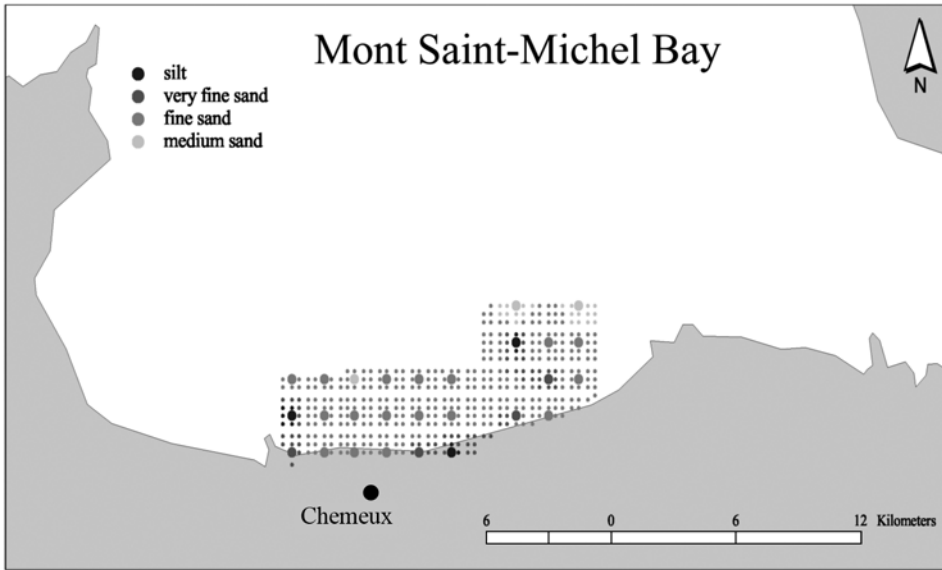
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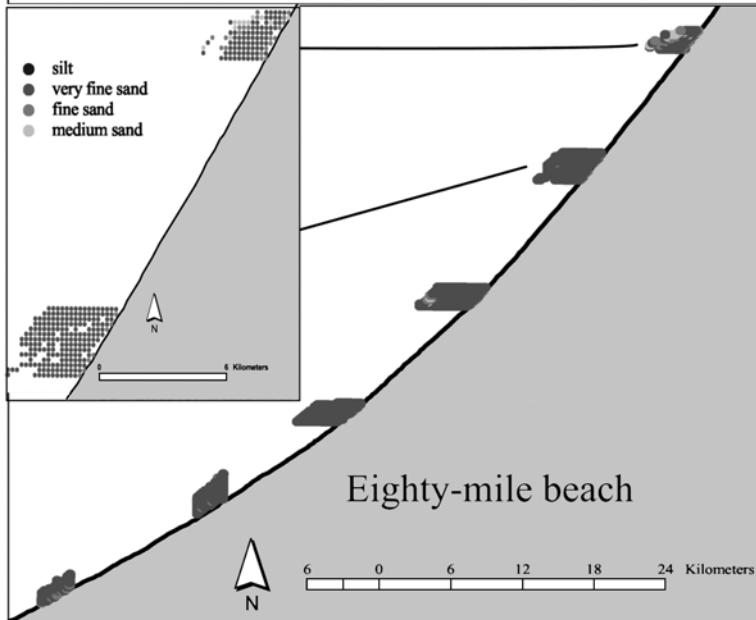
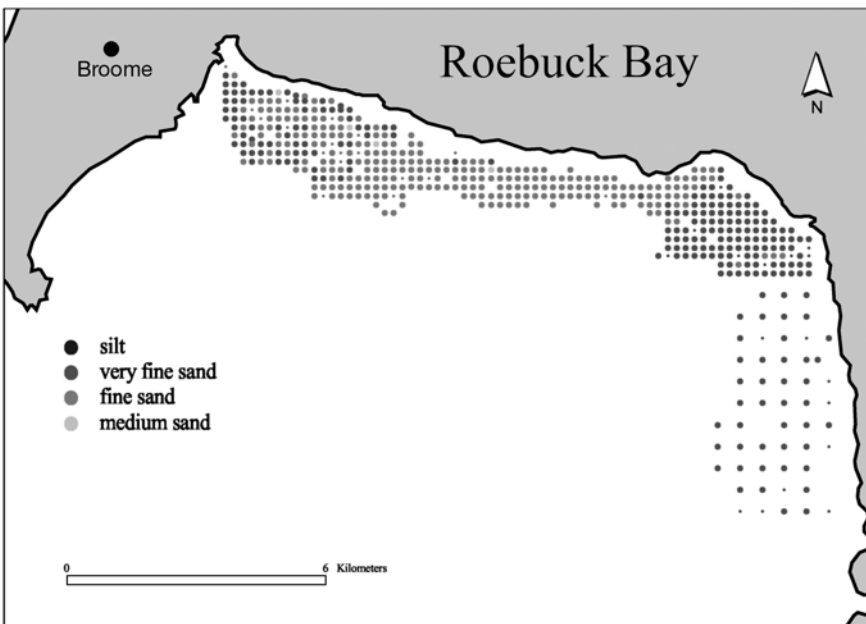
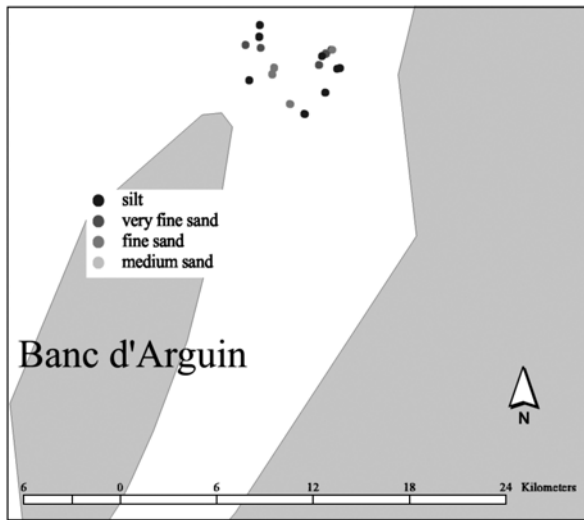
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**Appendix 1.** Maps showing the gridding programme in each system. Benthic sampling points are shown as small dots; sediment sample points are indicated as larger dots. Median grain size values are shown in categories (Wentworth scale). Darker colours are muddy sample points, whereas lighter colours are sandier. The map of the German Wadden Sea has been divided to show the grid sampling at each location (A: 54° 32' N, 8° 34' E; B: 53° 59' N, 8° 51' E)









## Appendix 2. Species names and their authorities

Location	Subclass	Order	Superfamily	Family	Species	Authority name
Banc d' Arguin	Pteriomorphia	Mytiloida		Mytilidae	<i>Amygdalum agglutinans</i>	Cantraine, 1835
	Pteriomorphia	Arcoida	Arcoidea	Arcidae	<i>Anadara senilis</i>	Linnaeus
	Pteriomorphia	Mytiloida		Mytilidae	<i>Brachidontes spec.</i>	Linnaeus, 1767
	Pteriomorphia	Mytiloida		Mytilidae	<i>Musculista senhousia</i>	Benson, 1842
	Heterodonta	Veneroida	Galeommatoidea	Montacutidae	<i>Mysella spec.</i>	
	Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra spec. A</i>	
	Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra tenuis</i>	Montagu, 1803
	Heterodonta	Veneroida	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Lucinoidea	Ungulinidae	<i>Diplodonta cf diaphana</i>	
	Heterodonta	Veneroida	Veneroidea	Veneridae	<i>Dosinia hepatica</i>	(Lamarck, 1818)
	Heterodonta	Veneroida	Lucinoidea	Lucinidae	<i>Linga adansoni</i>	(d'Orbigny, 1839)
	Heterodonta	Veneroida	Lucinoidea	Lucinidae	<i>Loripes lacteus</i>	Linnaeus
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Macoma cumana</i>	(Costa OG, 1829)
	Heterodonta	Veneroida	Mactroidea	Mactridae	<i>Mactra glabrata</i>	(Linnaeus, 1767)
	Heterodonta	Veneroida	Tellinoidea	Psammobiidae	<i>Tagelus angulatus</i>	Sowerby
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Tellin spec. 1</i>	
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Tellin spec. 2</i>	
Aiguillon Bay	Anomalodesmata	Pholadomyoidea	Pholadomyoidea	Pholadomyidae	<i>Petricola pholadiformis</i>	Lamarck, 1818
	Heterodonta	Veneroida	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra tenuis</i>	Montagu, 1803
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778
Marennes-Oléron Bay	Heterodonta	Veneroida	Veneroidea	Veneridae	<i>Venerupis spec.</i>	
	Pteriomorphia	Mytiloida	NON	Mytilidae	<i>Mytilus edulis</i>	Linnaeus, 1758
	Pteriomorphia	Ostreoida	Osteroidea	Ostreidae	<i>Crassostrea gigas</i>	Thunberg, 1793
	Heterodonta	Veneroida	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra tenuis</i>	Montagu, 1803
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	
	Heterodonta	Veneroida	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778
Mont Saint-Michel	Heterodonta	Veneroida	Veneroidea	Veneridae	<i>Venerupis spec.</i>	
	Pteriomorphia	Mytiloida	NON	Mytilidae	<i>Mytilus edulis</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra tenuis</i>	Montagu, 1803
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Tellina tenuis</i>	Da Costa, 1778
The Wash	Heterodonta	Veneroida	Veneroidea	Veneridae	<i>Venerupis spec.</i>	
	Pteriomorphia	Mytiloida	NON	Mytilidae	<i>Mytilus edulis</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Tellina tenuis</i>	Da Costa, 1778
	Heterodonta	Veneroida	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778
	Heterodonta	Myoidea	Myoidea	Myidae	<i>Mya arenaria</i>	Linnaeus, 1758
	Heterodonta	Veneroida	Galeommatoidea	Montacutidae	<i>Mysella bidentata</i>	Montagu 1803
Heterodonta	Veneroida	Tellinoidea	Semelidae	<i>Abra nitida</i>	Mueller, 1776	

Location	Subclass	Order	Superfamily	Family	Species	Authority name	
German Wadden Sea	Pteriomorpha	Mytiloidea	NON	Mytilidae	<i>Mytilus edulis</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Tellina tenuis</i>	Da Costa, 1778	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Tellinoidea	Semelidae	<i>Abra alba</i>	Wood, 1802	
	Heterodonta	Veneroidea	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778	
	Heterodonta	Myoidea	Myoidea	Myidae	<i>Mya arenaria</i>	Linnaeus, 1758	
Dutch Wadden Sea	Pteriomorpha	Mytiloidea	NON	Mytilidae	<i>Mytilus edulis</i>	Linnaeus, 1758	
	Pteriomorpha	Ostreoidea	Osteroidea	Ostreidae	<i>Crassostrea gigas</i>	Thunberg, 1793	
	Heterodonta	Veneroidea	Cardioidea	Cardiidae	<i>Cerastoderma edule</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Solenioidea	Solenidae	<i>Ensis americanus</i>	Gould 1870	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Tellina tenuis</i>	Da Costa, 1778	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Macoma balthica</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Tellinoidea	Semelidae	<i>Abra tenuis</i>	Montagu, 1803	
	Heterodonta	Veneroidea	Tellinoidea	Psammobiidae	<i>Scrobicularia plana</i>	da Costa, 1778	
	Heterodonta	Myoidea	Myoidea	Myidae	<i>Mya arenaria</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Galeommatoidea	Montacutidae	<i>Mysella bidentata</i>	Montagu 1803	
Eighty-mile Beach	Protobranchia	Nuculoidea	Nuculoidea	Nuculidae	<i>Ledella spec.</i>		
	Veneroidea	Lucinoidea	Lucinoidea	Lucinidae	<i>Anodontia bullula</i>	Reeve, 1850	
	Heterodonta	Veneroidea	Lucinoidea	Lucinidae	<i>Divericella irpex</i>	Smith, 1885	
	Heterodonta	Veneroidea	Mactroidea	Mactridae	<i>Pseudopythina macrophthalmensis</i>	Morton and Scott, 1989	
	Heterodonta	Veneroidea	Mactroidea	Mactridae	<i>Heterocardia gibbosula</i>	Stoliczka, 1871	
	Heterodonta	Veneroidea	Solenioidea	Solenidae	<i>Siliqua pulchella</i>		
	Heterodonta	Veneroidea	Solenioidea	Solenidae	<i>Solenspec.</i>		
	Heterodonta	Veneroidea	Tellinoidea	Donacidae	<i>Donax cuneatus</i>	Linnaeus, 1758	
	Heterodonta	Veneroidea	Tellinoidea	Donacidae	<i>Paphies cf. altenai</i>	De Rooij-Schuiling	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Tellina amboynensis</i>	Deshayes, 1855	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Tellina inflata</i>	Gmelin, 1791	
	Heterodonta	Veneroidea	Tellinoidea	Semelidae	<i>Theora fragilis</i>	Adams, 1855	
	Heterodonta	Veneroidea	Tellinoidea	Tellinidae	<i>Tellina aff. tenuilirata</i>		
	Roebuck Bay	Protobranchia	Nuculoidea	Nuculoidea	Nuculidae	<i>Nucula spec.</i>	<i>Nucula cf. astricta</i>
		Protobranchia	Nuculoidea	Nuculoidea	Nuculidae	<i>Ledella spec.</i>	
Protobranchia		Solemyoidea		Solemyidae	<i>Solemya spec.</i>		
Pteriomorpha		Arcoidea	Arcoidea	Arcidae	<i>Anadara granosa</i>	Linnaeus, 1758	
Heterodonta		Veneroidea	Lucinoidea	Lucinidae	<i>Anodontia bullula</i>	Reeve, 1850	
Heterodonta		Veneroidea	Lucinoidea	Lucinidae	<i>Divericella irpex</i>	Smith, 1885	
Heterodonta		Veneroidea	Lucinoidea	Lucinidae	<i>Cardiolucina pisiformis</i>	Thiele, 1930	
Heterodonta		Veneroidea	Solenioidea	Solenidae	<i>Cultellus spec. A</i>		
Heterodonta		Veneroidea	Solenioidea	Solenidae	<i>Siliqua pulchella</i>		
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina spec. A (oval)</i>		
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina spec. B (mud tellin)</i>		
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina amboynensis</i>	Deshayes, 1855	
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina aff. tenuilirata</i>		
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina piratica</i>	Hedley, 1918	
Heterodonta		Veneroidea	Mactroidea	Mactridae	<i>Heterocardia gibbosula</i>	Stoliczka, 1871	
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina capsoides</i>	Lamarck, 1818	
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina iridescens</i>		
Heterodonta		Veneroidea	Tellinoidea	Tellinidae	<i>Tellina spec. C (mysia)</i>		
Heterodonta		Veneroidea	Tellinoidea	Psammobiidae	<i>Gari lessonii</i>	Blainville, 1826	
Heterodonta		Veneroidea	Veneroidea	Veneridae	<i>Placamen gravescens</i>	Menke, 1843	
Heterodonta		Veneroidea	Veneroidea	Veneridae	<i>Anomalocardia squamosa</i>	Linnaeus, 1758	
Heterodonta		Veneroidea	Veneroidea	Veneridae	<i>Grafrarium dispar</i>	Holtén, 1802	
Heterodonta		Veneroidea	Veneroidea	Veneridae	<i>Tapes sp.</i>	Lamarck, 1818	
Heterodonta		Veneroidea	Veneroidea	Veneridae	<i>Placamen gilva</i>		
Heterodonta		Myoidea	Myoidea	Corbulidae	<i>Corbula spec.</i>		
Heterodonta		Veneroidea	Solenioidea	Solenidae	<i>Ensis spec.</i>		
Anomalodesmata		Pholadomyoidea	Thracioidea	Laternulidae	<i>Laternula creccina</i>	Reeve, 1860	