

Perspectives on Marine Environment Change in Hong Kong and Southern China, 1977–2001 (ed. B. Morton).
Proceedings of an International Workshop Reunion
Conference, Hong Kong 21–26 October 2001.
Hong Kong: Hong Kong University Press, 2003.

A TAXONOMIC, DISTRIBUTIONAL AND BIBLIOGRAPHIC CHECKLIST OF HONG KONG MARINE BIVALVE MOLLUSCS AND RESEARCH PUBLISHED ON THEM FROM 1971–2000

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ABSTRACT

The Hong Kong Bivalvia have been studied extensively during the last 30 years. This inventory provides a summary of 167 publications that include Hong Kong bivalves, either as primary objects of the research or as ancillary objects of broader studies. Two hundred and seventy-eight species are incorporated in the list with details of locality and habitats where available. Also included is a summary of bivalve literature as it relates to biology, ecology, physiology, biomonitoring, biofouling, and introduced species.

INTRODUCTION

The Hong Kong Bivalvia are perhaps the best studied invertebrate group in Asia. In the past three decades publications on these molluscs have included comprehensive works on their biology, ecology, physiology, taxonomy, zoogeography and parasitology. Many papers have been published in the proceedings of workshops on the malacofauna and marine flora and fauna of Hong Kong.

Two major works, Tsi and Ma (1982) and Bernard *et al.* (1993), included significant taxonomic lists of the Hong Kong Bivalvia. In both cases, locality descriptions were general, and neither included references to the biological literature on individual species. Bernard *et al.* (1993) included a synonymy for most species in the region.

Broad scale surveys of the Hong Kong bivalves began with the first malacofauna workshop in 1977 (Horikoshi and Thompson 1980) and have continued in subsequent ones (Jiang and Zhou 1982; Li and Gao 1985; Shin 1985, 1989, 1990; Britton 1990; Liu 1992; Mackie and Oliver 1993; Scott 1994; Leung and Morton 1997, 2000; Morton and Harper 1997). Additional surveys have been conducted outside of the workshop format in specific regions (Ong Che and Morton 1991, 1992, 1993, 1994; Morton and Dudgeon 1991; Morton *et al.* 1991).

Globally, bivalves have been used as living bio-monitors for overall environmental health in aquatic habitats. In Hong Kong, many studies have used bivalves to quantify chemical and biological contaminants in the food chain (Ko *et al.* 1974, 1975a, b; Lueng *et al.* 1975; Morton and Shortridge 1976; Kueh 1987; Chan 1988; Chan *et al.* 1990; Phillips 1990; Rainbow 1993; Wang *et al.* 1993; Liu 1993; Chau *et al.* 1999). The entire offshore molluscan fauna has been studied to ascertain the effects of dredging of sediments on the stability of invertebrate populations (Leung and Morton 1997, 2000). While bivalves are excellent bio-monitors, they also are considered a pest in some aquatic facilities. They have been documented as biofoulers on buoys, pier pilings, mariculture facilities, in plastic pipe, and in water supply lines (Morton 1971, 1979b, 1991a; Huang 1993; Huang *et al.* 1993, 1999).

Many bivalve species have broad tolerances of changing environmental conditions. Their adaptability has made them a prime choice for physiological experiments and research (Day 1980; Fang 1982; Britton 1985; Depledge 1985a, b; Morton and Chan 1990; Cheung 1991a, b; Liu and Morton 1994; Cheung *et al.* 1999; Nicholson and Morton 2000).

Predator-prey relationships have received extensive attention in Hong Kong waters, with bivalves being a leading prey item (Harper 1994; Harper and Morton 1997; Morton 1994; Seed 1990; Taylor 1990; Taylor and Morton 1996; Tong 1986).

As a major shipping port, many non-native bivalve species have been introduced into the Hong Kong environment from the discharge of ship ballast water. Many investigators have reported on the first discovery of introduced species and their subsequent spread throughout the region (Huang *et al.* 1985; Lee 1985, 1986; Lee and Morton 1985b; Morton 1987b; Lee and Cheung 2000).

A great number of publications have covered the biology, functional morphology, and taxonomy of selected bivalve species and families. Prof. B. Morton has been the leader in this regard, being joined by A. Ansell, J.X. Jian, K. Lam, S.Y. Lee, S. Morris, W. Narchi, P.G. Oliver, R.D. Purchon, R.G.B. Reid, P.J.B. Scott, P.H. Scott, R. Seed, R.S.S. Wu, and F.S. Xu (see checklist and bibliography for complete citations).

FORMAT

This checklist is a collation of bivalve taxa as reported in the literature and from first hand sampling and identification (Morton and Scott 1989; Scott 1994). Only names that were fully attributed to the species level are included and, thus, mention in the literature of non-specific names, e.g. *Tapes* sp., are excluded. The list contains all marine and estuarine taxa, but it does not include exclusively freshwater families, e.g., Pisidiidae. Many of the taxa included are undoubtedly synonymous, but it is well outside the scope of this work to make such determinations (Bernard *et al.* 1993, for some synonymies). I have, however, attempted to bring generic level names in line with the current literature on bivalve taxonomy (Coan *et al.* 2000).

The checklist is taxonomically organized following Coan *et al.* (2000). After each bivalve name, references are given where the species is cited and, if available, Hong Kong localities and habitats. References following each species are given in chronological order. A major omission in this list is the non-English literature, for which the author apologises.

SYSTEMATIC ACCOUNT

Mollusca

Bivalvia

Protobranchia

Nuculidae

Ennucula cumingii (Hinds, 1843) (Plate 1A)

Scott 1994; Leung and Morton 2000

Off Cape d'Aguilar; 28 m; mud and silt.

Nuculanidae

Nuculana mauritiana (Sowerby, 1833) (Plate 1B)

Scott 1994

Off Beaufort Island; 46–55 m; mud.

Yoldia lepidula (Adams, 1856)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand

Sareptidae

Carinineilo angulata (Sowerby, 1888)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Pteriomorpha

Arcidae

Acar plicata (Dillwyn, 1817) (Plate 1C)

Scott 1994; Leung and Morton 2000

Off Waglan Island; 19 m; mud, rubble, shell-hash.

Anadara clathrata (Reeve, 1844)

Shin 1985; Shin 1989; Shin 1990

Tolo Harbour, Tolo Channel, Mirs Bay, east of Waglan Island; subtidal–30 m; silty clay.

Anadara ferruginea (Reeve, 1844) (Plate 1D)

Tsi and Ma 1982; Ong Che and Morton 1991; Scott 1994; Morton 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000

Tolo Harbour, Mirs Bay, throughout SE Hong Kong; 18–55 m; coarse sand, fine sand, silty clay.

Anadara granosa (Linnaeus, 1758)

Li and Gao 1985; Morton 1986a

SE Hong Kong; subtidal; mud.

Arca avellana Lamareck, 1819

Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; in dead coral heads

Barbatia adamsiana (Dunker, 1866) (Plate 2A)

Scott 1994; Leung and Morton 2000

Off Waglan Island; 18 m; attached to rocks.

Barbatia decussata (Sowerby, 1833)

Tsi and Ma 1982; Britton 1990

Tolo Harbour and Channel; intertidal; in rocky crevices.

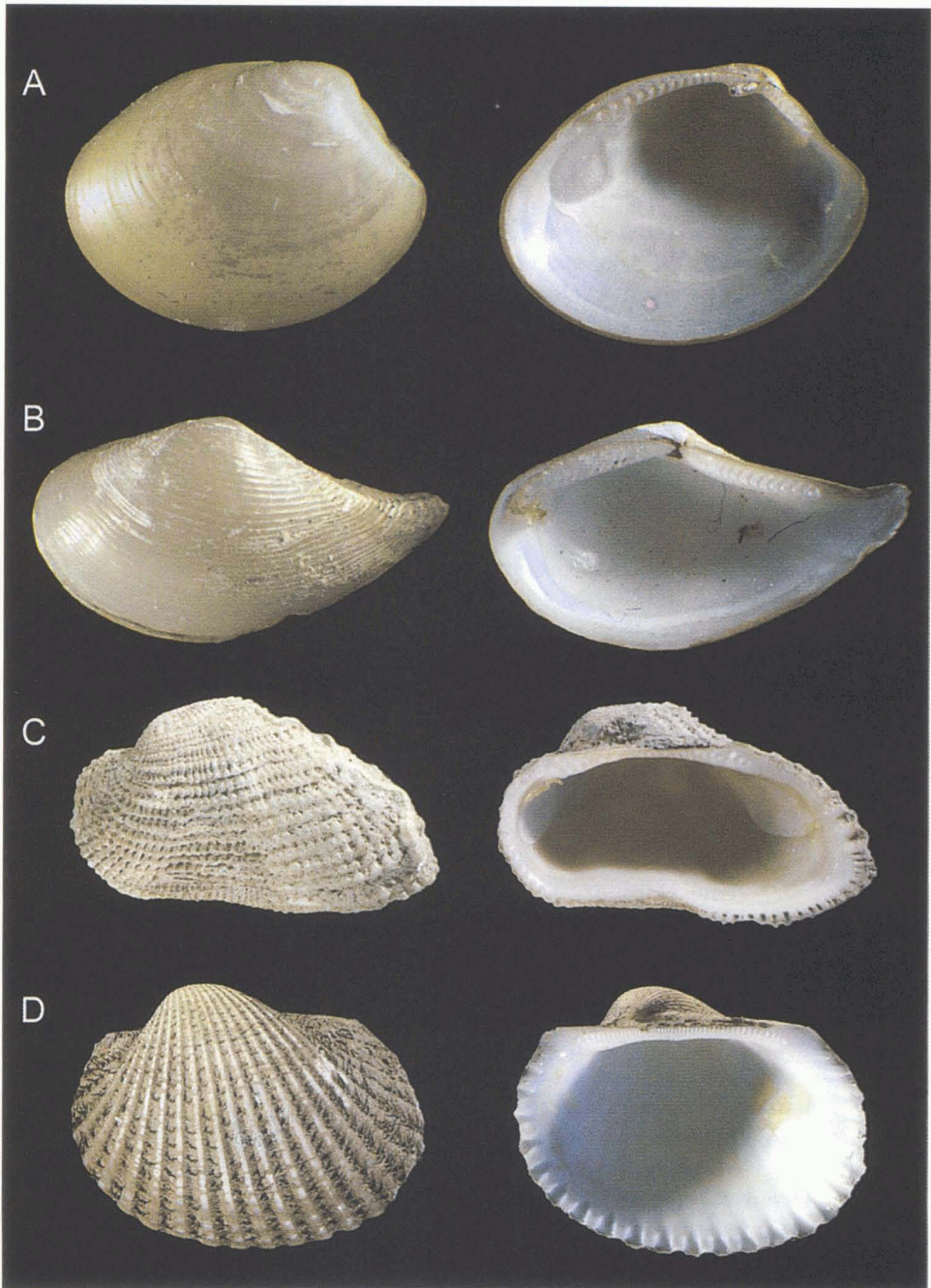


Plate 1. A, *Ennucula cumingii*, SBMNH 141695, length 12.2 mm, Hong Kong, off Cape d'Aguilar, 28 m; B, *Nuculana mauritiana*, SBMNH 141696, length 10.4 mm, Hong Kong, off Beaufort Island, 55m; C, *Acar plicata*, SBMNH 141697, length 19.2 mm, Hong Kong, off Waglan Island, 18 m; D, *Anadara ferruginea*, SBMNH, length 22.1 mm, Hong Kong, Tai Tam Bay, 16 m.

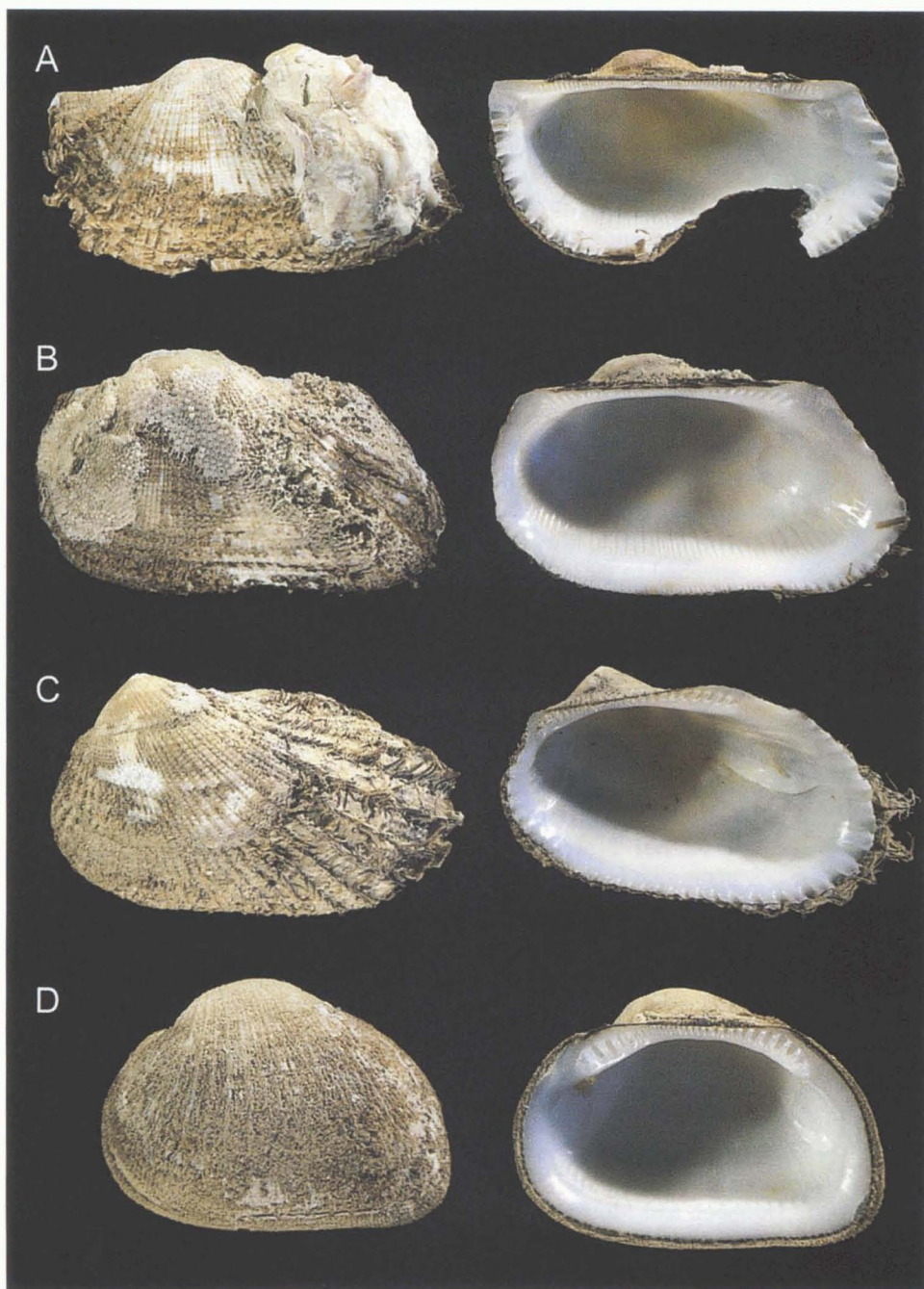


Plate 2. A, *Barbatia adamsiana*, SBMNH 141699, length 32.0 mm, Hong Kong, off Waglan Island, 18 m; B, *Barbatia lima*, SBMNH 1418700, length 33.3 mm, Hong Kong, off Waglan Island, 18 m; C, *Barbatia martinii*, SBMNH 141701, length 20.5 mm, Hong Kong, off Waglan Island, 18 m; D, *Didimacar tenebrica*, SBMNH 141703, length 16.7 mm, Hong Kong, off Waglan Island, 18 m.

- Barbatia helblingi* (Bruguère, 1789)
 Dudgeon and Morton 1982
 Tolo Harbour and Channel; subtidal; in dead coral heads.
- Barbatia lima* (Reeve, 1844) (Plate 2B)
 Scott 1994; Leung and Morton 2000
 Off Beaufort Island; 46 m; attached to rocks.
- Barbatia martini* (Récluz, 1852) (Plate 2C)
 Scott 1994; Leung and Morton 2000
 Off Cape d'Aguilar (Waglan Island); 18 m; attached to rocks.
- Barbatia plicata* (Dillwyn, 1817)
 Dudgeon and Morton 1982
 Tolo Harbour and Channel; subtidal; in dead coral heads.
- Barbatia virescens* (Reeve, 1844)
 Jiang and Zhou 1982; Tsi and Ma 1982; Ni and Huang 1985; Morton 1986a;
 Morton 1987a, Britton 1990; Huang *et al.* 1992b; Ong Che and Morton
 1992; Seed and Brothadikusumo 1994; Taylor and Morton 1996; Harper
 and Morton 1997
 Tolo Channel, Mirs Bay, Lobster Bay (Cape d'Aguilar); low-tide zone;
 attached to piers, rocks and boulders.
- Didimacar tenebrica* Reeve, 1843 (Plate 2D)
 Oliver 1990c; Scott 1994; Harper and Morton 1997; Leung and Morton
 2000
 Lobster Bay, Cape d'Aguilar, Beaufort Island, Waglan Island, and off
 Shek Ngau Chau (Mirs Bay); intertidal to 46 m; attached to rocks and
 boulders.
- Estellacar galactodes* Benson, 1842
 Oliver 1990a
 Tsim Bei Tsui, Hau Hoi Wan; intertidal; fine soft muds, beyond
 mangrove belt.
- Noetiella vivianae* Oliver, 1990
 Oliver 1990b
 Tap Shek Kok, Hau Hoi Wan; subtidal; mud.
- Scapharca disparilis* (Reeve, 1844) (Plate 3A)
 Scott 1994; Leung and Morton 1997
 Off Cape d'Aguilar and Po Toi Island; 20–31 m; coarse sand.
- Scapharca cornea* (Reeve, 1844)
 Tsi and Ma 1982; Li and Gao 1985; Morton 1986a; Kueh 1987
 SE Hong Kong; subtidal; mud
- Striarca afra* (Gmelin, 1791)
 Dudgeon and Morton 1982
 Tolo Harbour and Channel; subtidal; in dead coral heads.
- Striarca symmetrica* (Reeve, 1843)
 Oliver 1985; Harper and Morton 1997
 Lobster Bay (Cape d'Aguilar); intertidal; attached to the undersides of
 boulders.
- Trisidos kiyonoi* (Kuroda, 1929) (Plate 3B)
 Scott 1994
 Off Po Toi Island; 20–31 m; gravelly sand, coarse sand.

Trisdos semitorta (Lamarck, 1819)

Tsi and Ma 1982; Morton 1983a; Purchon 1985; Shin 1985; Shin 1990; Leung and Morton 2000

Tolo Harbour, Tolo Channel, Mirs Bay; subtidal – 8 m; coarse sand and shell hash

Verilarca interplicata (Grabau and King, 1928)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Verilarca sinensis Thiele and Jaeckel, 1931

Oliver 1985; Shin 1985; Shin 1990

Tolo Harbour, Tolo Channel, Mirs Bay; subtidal.

Cucullaeidae

Cucullaea labiata (Lightfoot, 1786)

Morton 1981

NE Hong Kong waters (SE of Sha Tau); 8 m; sand.

Mytilidae

Amygdalum watsoni (Smith, 1885)

Lee and Morton 1985a

SE Hong Kong; 60 m; in soft mud.

Arcuatula elegans (Gray, 1828)

Horikoshi and Thompson 1980; Morton 1980b; Lee and Morton 1985a; Shin 1985; Ong Che and Morton 1991; Leung and Morton 1997, 2000

Sha Tin Hoi (Tolo Harbour), Kei Ling Ha Hoi (Tolo Channel); 7–11 metres; mud, in gelatinous byssal nest.

Botula silicula (Lamarck, 1818)

Lee and Morton 1985a; Huang *et al.* 1992b

Hau Hoi Wan; intertidal; boring into the commercial oyster, *Crassostrea gigas*.

Brachidontes emarginatus (Reeve, 1858)

Lee and Morton 1985a; Huang *et al.* 1992b

Sam Mun Tsai; intertidal; attached to rock and pilings

Brachidontes variabilis (Krauss, 1848)

Jiang and Zhou 1982; Lee and Morton 1985a; Tong 1986; Morton 1988a; Britton 1990; Seed 1990; Morton and Chan 1990; Huang *et al.* 1992a; Huang *et al.* 1992b; Liu 1992; Huang *et al.* 1999

Tolo Harbour, Hoi Ha Wan, Wu Kai Sha, Wong Shek, Sai Kung, Tink Kok, Kat O Chau; upper to mid-tide zone; attached to piers and rocks, and in mangroves.

Gregariella coralliophaga (Gmelin, 1791)

Scott 1980; Morton 1982a; Tsi and Ma 1982; Dudgeon and Morton 1982; Lee and Morton 1985a

Sha Tau Kok, Tung Ping Chau, Sai Kung, Sam Mun Tsai, Sam Chung; intertidal - subtidal; among dense clusters of *Brachidontes*, in rock pools, in vacated bore holes in dead coral.

Gregariella striatus (Hanley, 1844)

Scott 1980; Lee and Morton 1985a

Eastern waters of Hong Kong; subtidal; boring in dead coral.

- Hormomya mutabilis* (Gould, 1861)
 Jiang and Zhou 1982; Tsi and Ma 1982; Lee and Morton 1985a; Britton 1990; Huang *et al.* 1992a; Huang *et al.* 1992b; Ong Che and Morton 1992; Harper 1994; Seed and Brotohadikusumo 1994; Harper and Morton 1997; Huang *et al.* 1999
 Lobster Bay, Cape d'Aguilar, Sai Kung, Wong Shek, Wu Kwai Sha, Tolo Channel; upper to low-tide zone; attached to pier pilings, rocks, and boulders.
- Limnoperna fortunei* (Dunker, 1857)
 Morton *et al.* 1976; Morton 1977d; Morton 1979b; Lee and Morton 1985a; Morton 1987b
 Tai Po Tau, Plover Cove Reservoir; fresh water; byssally attached to stones and other solid objects.
- Lithophaga antillarum* d'Orbigny, 1842
 Scott 1980; Lee and Morton 1985a
 NE Hong Kong; subtidal; boring in corals.
- Lithophaga calyculata* (Carpenter, 1857)
 Tsi and Ma 1982
 Hong Kong, no specific locality or habitat cited.
- Lithophaga hanleyana* (Reeve, 1857) (Plate 3C)
 Scott 1980; Morton and Scott 1980; Lee and Morton 1985a; Scott 1994
 Tolo Channel, Pak Lap, Bay Island, Waglan Island; 10–18 m; burrowing in dead and living corals.
- Lithophaga lima* (Lamy, 1919)
 Scott 1980; Morton and Scott 1980; Tsi and Ma 1982; Lee and Morton 1985a
 Eastern waters of Hong Kong; subtidal; boring in living corals.
- Lithophaga malaccana* (Reeve, 1857) (Plate 3D)
 Scott 1980; Morton and Scott 1980; Tsi and Ma 1982; Lee and Morton 1985a; Huang *et al.* 1992b; Scott 1994
 Waglan Island, eastern waters of Hong Kong; subtidal – 18 m; burrowing in dead and living corals.
- Lithophaga mucronata* (Philippi, 1846)
 Scott 1980; Morton and Scott 1980; Lee and Morton 1985a
 Eastern waters of Hong Kong; subtidal; boring in living corals.
- Lithophaga simplex* Iredale, 1939
 Scott 1980; Morton and Scott 1980; Lee and Morton 1985a
 Kat O Chau, eastern waters of Hong Kong; subtidal; boring in coral
- Lithophaga teres* (Philippi, 1846)
 Scott 1980; Morton and Scott 1980; Lee and Morton 1985a
- Modiolus auriculatus* (Krauss, 1848)
 Huang *et al.* 1992b
 Mirs Bay; intertidal – subtidal; attached to pilings.
- Modiolus comptus* (Sowerby, 1915)
 Huang *et al.* 1992b; Ong Che and Morton 1992; Seed and Brotohadikusumo 1994; Huang *et al.* 1999
 Mirs Bay, Cape d'Aguilar; intertidal; on rocks, within mussel beds, on pilings.

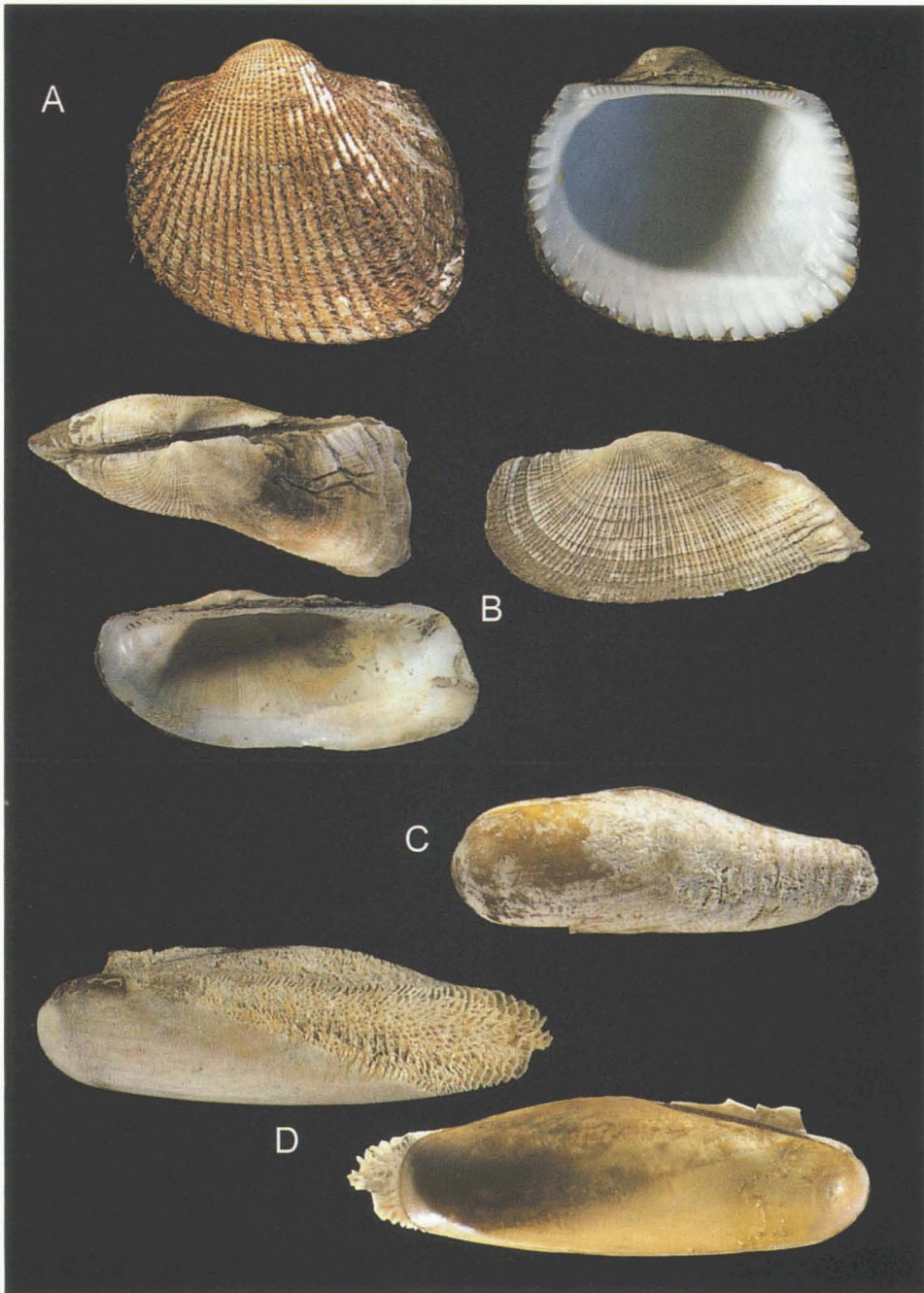


Plate 3. A, *Scapharca disparilis*, SBMNH 141704, length 59.4 mm, Hong Kong, off Bokhara Rocks, 26 m; B, *Trisodos kiyonoi*, SBMNH 141702, length 56.4 mm, Hong Kong, off Po Toi, 27 m; C, *Lithophaga hanleyana*, SBMNH 141705, length 12.5 mm, Hong Kong, off Waglan, 18 m; D, *Lithophaga malaccana*, SBMNH 124003, length 28.1 mm, Marshall Islands, Jabor Island, Jaluit Atoll.

- Modiolus elongatus* (Swainson, 1821)
 Lee and Morton 1985a; Ong Che and Morton 1991
 SE Hong Kong waters; offshore; soft substrata, in a byssal nest.
- Modiolus metcalfei* (Hanley, 1843)
 Lee and Morton 1985a
 Tolo Channel; seaward fringe of mangroves.
- Modiolus nipponicus* (Oyama, 1950)
 Lee and Morton 1985a
 Japan, Hong Kong distribution unknown; subtidal; attached to solid objects.
- Modiolus philippinarum* (Hanley, 1843)
 Lee and Morton 1985a
 Hong Kong distribution not known; intertidal; sand and mudflats.
- Musculista senhousia* (Benson, 1842)
 Lee and Morton 1985a; Lee 1993; Ong Che and Morton 1991; Hutchings and Wells 1992; Ong Che and Morton 1993 1994; Lam 2000
 Hoi Ha Wan; intertidal to 15 m; sand and mudflats, in a byssal nest.
- Musculus cupreus* (Gould, 1861)
 Lee and Morton 1985a
 Kat O Chau, Tolo Channel; subtidal; attached to the bases of coral heads.
- Musculus japonicus* (Dunker, 1857)
 Tsi and Ma 1982
 Hong Kong, no specific locality or habitat cited
- Musculus nanus* (Dunker, 1857)
 Lee and Morton 1985a; Shin 1985; Shin 1990; Ong Che and Morton 1991; Huang *et al.* 1992b; Seed and Brotohadikusumo 1994
 Tolo Harbour, Tolo Channel, Mirs Bay, Cape d'Aguilar; intertidal-subtidal; on rocks, pilings and soft substrata.
- Mytilus galloprovincialis* Lamarck, 1819
 Britton 1990; Lee and Morton 1985a, b; Morton 1987
 Tolo Channel, Victoria Harbour, Kat O Chau; intertidal; attached to rocks and pilings.
- Perna viridis* (Linnaeus, 1758)
 Tsi and Ma 1982; Dudgeon and Morton 1982; Lee and Morton 1985a; Shin 1985; Huang *et al.* 1985; Ni and Huang 1985; Lee 1985; Lee 1986; Morton 1986a; Kuch 1987; Morton 1987b; Chan 1988; Shin 1990; Seed 1990; Phillips 1990; Chan, Rainbow and Phillips 1990; Cheung 1991a; Cheung 1991b; Huang *et al.* 1992b; Huang and Lin 1993; Rainbow 1993; Wang *et al.* 1993; Taylor 1993; Harper 1994; Seed and Brotohadikusumo 1994; Huang *et al.* 1999; Cheung and Fan 1999; Lee and Cheung 2000; Leung and Morton 2000
 Tolo Harbour and Channel, Mirs Bay, Wu Kai Sha, Victoria Harbour, Cape d'Aguilar, Reef Island, Lantau Island; upper tidal zone to subtidal; attached to pilings and rocks.
- Septifer bifurcatus* (Conrad, 1837)
 Tsi and Ma 1982 (obviously a wrong identification, this is an Eastern Pacific species)

Septifer bilocularis (Linnaeus, 1758)

Jiang and Zhou 1982; Lee and Morton 1985a; Huang *et al.* 1992b
Tolo Harbour and Channel, Mirs Bay; intertidal – subtidal; associated with dead corals, on pilings.

Septifer keenae (Nomura, 1936)

Lee and Morton 1985a; Huang *et al.* 1992b
Mirs Bay, Victoria Harbour; intertidal; attached byssally to pilings and hard substrata.

Septifer virgatus (Wiegmann, 1837)

Dudgeon and Morton 1982; Lee and Morton 1985a; Tong 1986; Morton 1991; Huang *et al.* 1992a; Huang *et al.* 1992b; Ong Che and Morton 1992; Rainbow 1993; Harper 1994; Morton 1994; Liu and Morton 1994; Seed and Brotohadikusumo 1994; Wells 1994; Richardson *et al.* 1995; Taylor and Morton 1996

Mirs Bay, Cape d'Aguilar, A Kung Ngam, Sai Kung Peninsula, Victoria Harbour; high to low-tide zones; attached to pier pilings and rocks, in coral heads.

Xenostrobus atrata (Lischke, 1871)

Tsi and Ma 1982 (as *Vignadula*); Lee and Morton 1985a; Huang *et al.* 1992b

Wu Kwai Sha, Shap Sz Heung, Ma On Shan, Sham Chung; high intertidal; attached to rocks and pilings.

Pteriidae

Pinctada chemnitzii (Philippi, 1849)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Pinctada martensii (Dunker, 1872) (Plate 4A)

Dudgeon and Morton 1982; Scott 1994; Leung and Morton 1997, 2000
Tolo Harbour and Channel, throughout SE Hong Kong; subtidal – 46 m; sand, mud, rubble, shell hash.

Pteria breviaalata (Dunker, 1872)

Morton 1995; Leung and Morton 1997, 2000

Off Cape d'Aguilar, uncommon throughout SE Hong Kong; subtidal; attached to the gorgonian *Hicksonella princeps*.

Pteria chinensis (Leach, 1814)

Purchon 1985

Hong Kong, no specific locality or habitat cited.

Pteria cf. coturnix (Dunker, 1872) (Plate 4B)

Scott 1994

Off Beaufort Island; 55 m; attached to gorgonians.

Pteria cypsella (Dunker, 1872)

Horikoshi and Thompson 1980

Tolo Harbour and Channel; subtidal; attached to solid objects.

Pteria lata (Gray, 1800)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

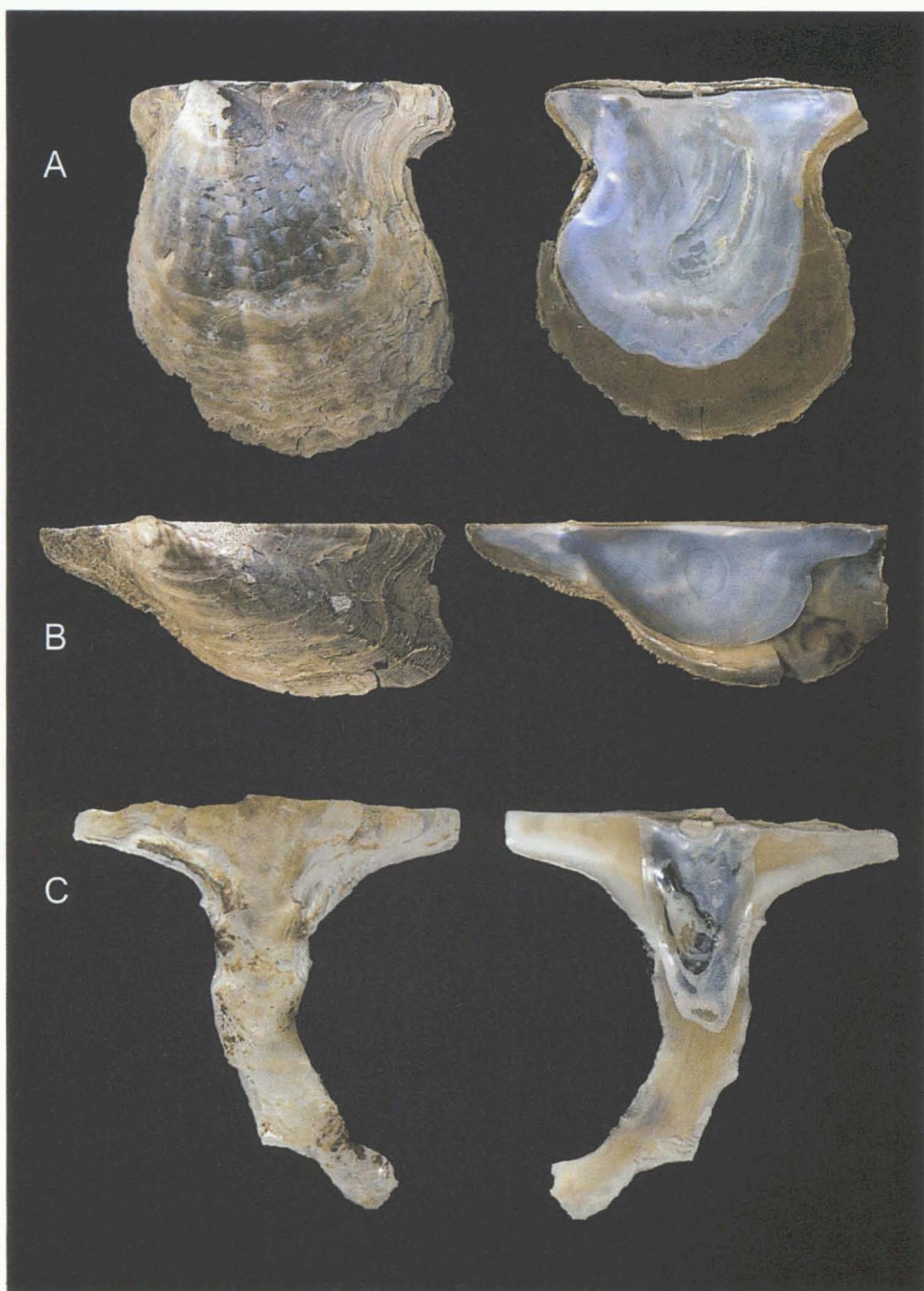


Plate 4. A, *Pinctada martensii*, SBMNH 141708, length 75.1 mm, Hong Kong, off Wang Lan, 27 m; B, *Pteria coturnix*, SBMNH 141707, length 40.4 mm, Hong Kong, off Beaufort Island, 55 m; C, *Malleus albus*, SBMNH 141709, length 100.7 mm, Hong Kong, off Beaufort Island, 46 m.

Pteria penguin (Röding, 1798)

Dudgeon and Morton 1982; Purchon 1985; Reid and Brand 1985
Tolo Harbour and Channel; subtidal; on dead coral heads.

Isognomonidae

Crenatula modiolaris (Lamarck, 1819)

Reid and Porteous 1980

Hoi Sing Wan, Kat O Chau; 1–3 m; attached to the sponge *Haliclona*

Isognomon acutirostris (Dunker, 1869)

Huang *et al.* 1992b

Mirs Bay; intertidal – subtidal; attached to pilings.

Isognomon ephippium (Linnaeus, 1758)

Jiang and Zhou 1982; Tsi and Ma 1982; Reid 1985; Ni and Huang 1985;
Britton 1990; Huang *et al.* 1992b; Liu 1992; Huang *et al.* 1999

Tolo Channel, Hoi Ha Wan, Mirs Bay; upper to mid-tide zone; attached to pilings and rocks.

Isognomon legumen (Gmelin, 1791)

Tsi and Ma 1982; Dudgeon and Morton 1982; Huang *et al.* 1992b; Ong Che and Morton 1992; Harper 1994; Morton 1994; Seed and Brotohadikusumo 1994; Taylor and Morton 1996; Harper and Morton 1997; Huang *et al.* 1999

Lobster Bay (Cape d'Aguilar), Tolo Harbour and Channel, Mirs Bay; intertidal - subtidal; attached to the undersides of boulders, in mussel aggregations, in coral heads, on pilings.

Malleidae

Malleus albus Lamarck, 1819 (Plate 4C)

Scott 1994

Off Beaufort Island; 55 m; attached to rocks.

Malleus malleus (Linnaeus, 1758)

Tsi and Ma 1982; Shin 1985

Tolo Harbour and Channel, Mirs Bay; no specific locality or habitat cited.

Vulsella vulsella (Linnaeus, 1758)

Reid and Porteous 1980; Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; embedded within the sponge *Ricinia*.

Pinnidae

Atrina pectinata (Linnaeus, 1758)

Tsi and Ma 1982 (as *Pinna inflata*); Wu 1985; Shin 1985; Liang and Morton 1988

Imported to Hong Kong, common in live seafood markets.

Atrina vexillum (Born, 1778)

Morton 1987d

Tolo Channel, Mirs Bay; subtidal; sand, mud.

Pinna atropurpurea Sowerby, 1825

Wu 1985

Nai Chung, Tolo Harbour; subtidal; sand – sandy mud.

Pinna attenuata Reeve, 1858

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Pinna bicolor Gmelin, 1791

Tsi and Ma 1982; Morton 1987d

Tolo Channel, Mirs Bay; subtidal; sand, mud.

Limidae

Lima lima Linnaeus, 1758

Morton 1979a; Dudgeon and Morton 1982

Tolo Harbour; subtidal, 4–12 m; in coral galleries.

Lima sowerbyi Deshayes, 1863

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Limaria fragilis (Gmelin, 1791)

Morton 1979a; Dudgeon and Morton 1982

Tolo Harbour; subtidal, 4–12 m; in coral galleries.

Limaria hirasei (Pilsbry, 1901) (Plate 5A)

Scott 1994; Leung and Morton 1997, 2000

Off Waglan Island; 19 m; mud, rubble, shell hash.

Limaria hongkongensis Morton, 1979

Morton 1979a; Tsi and Ma 1982; Dudgeon and Morton 1982; Morton *et al.* 1991

Tolo Harbour; subtidal, 4–12 m; in coral galleries.

Ostreidae

Alectryonella haliotidaea (Lamarck, 1819)

Morris 1985; Scott 1994; Leung and Morton 2000

Tolo Harbour and Channel, off Cape d'Aguilar and Waglan Island; 18–28 m; mud, rubble, shell hash.

Alectryonella plicatula (Gmelin, 1791)

Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; associated with dead coral heads.

Alectryonella radix (Sowerby, 1871)

Ni and Huang 1985; Huang *et al.* 1992b; Huang *et al.* 1999

Mirs Bay; intertidal – subtidal; attached to pilings.

Crassostrea ariakensis (Fujita, 1913)

Lam *et al.* (2003)

Crassostrea gigas (Thünberg, 1793)

Morton and Shortridge 1976; Morton 1977a; Ko *et al.* 1974, 1975a, b; Leung *et al.* 1975; Kuch 1987; Lee 1993 (as *Ostrea*); Morris 1985; Rainbow 1993; Lam *et al.* (2003)

Hoi Ha Wan; intertidal – subtidal; commercially cultivated.

Crassostrea rivularis (Gould, 1861)

Huang 1993; Lam *et al.* (2003)

Hau Hoi Wan; intertidal – subtidal; attached to buoys.

Dendostrea crenulifera (Sowerby, 1871)

Huang *et al.* 1992

Mirs Bay; mid to low-tide zone; attached to pier pilings, corals and rocks.

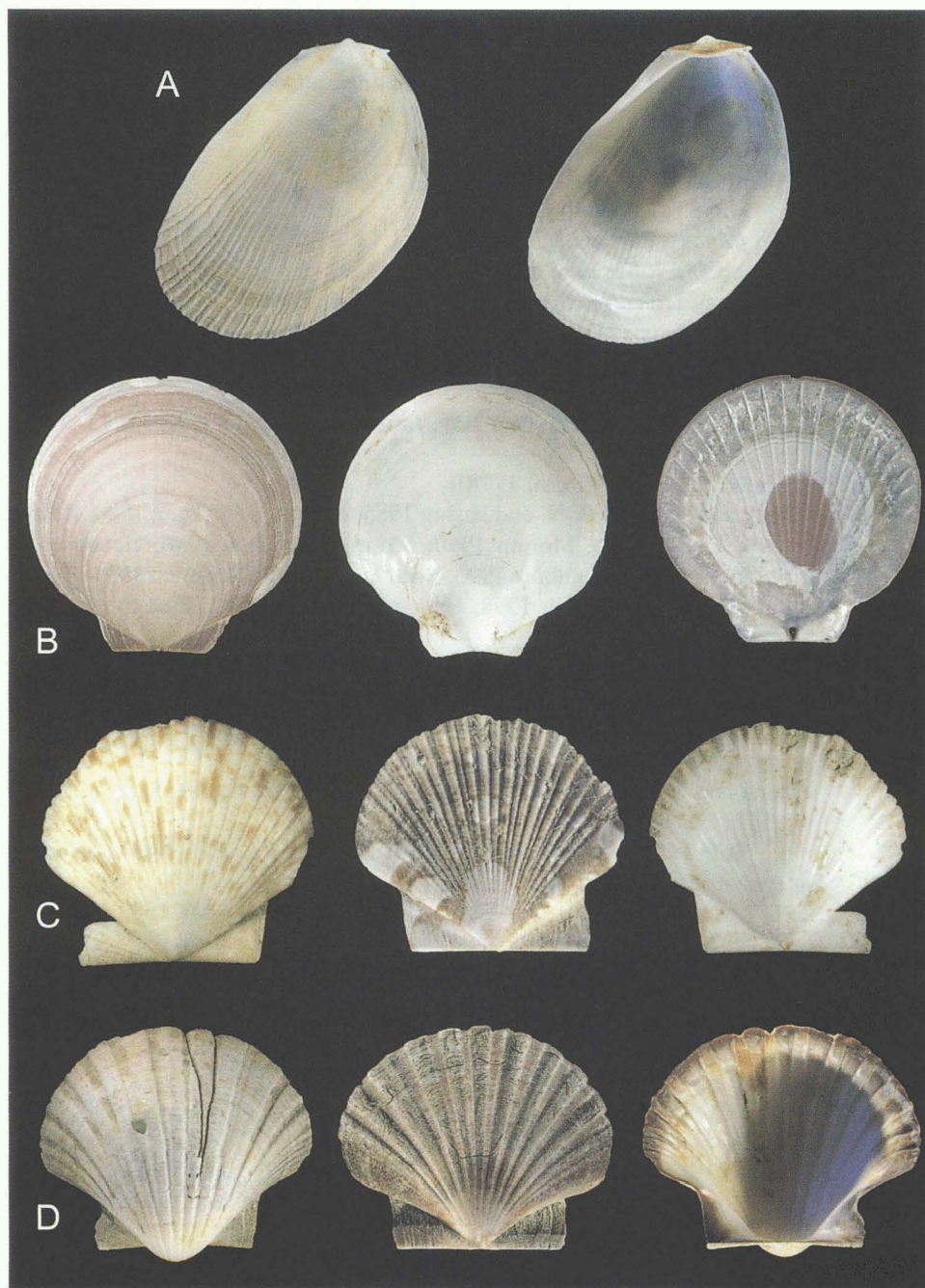


Plate 5. A, *Limaria hirasei*, SBMNH 141710, length 198 mm, Hong Kong, off Waglan Island, 18 m; B, *Amusium pleuronectes*, SBMNH 141717, length 71.4 mm, Hong Kong, off Beaufort Island, 46 m; C, *Minnivola pyxidatus*, SBMNH 141715, length 27.0 mm, Hong Kong, off Beaufort Island, 46 m; D, *Pecten sinensis*, SBMNH 141714, length 71.8 mm, Hong Kong, off Cape d'Aguilar, 24 m.

- Dendrostrea glaucina* (Lamarck, 1819)
Morris 1985
Wu Kwai Sha, Hoi Sing Wan; subtidal; attached to antipatharians and *Isognomon*.
- Ostrea densellamellosa* (Lischke, 1869)
Thompson *et al.* 1982
Hong Kong, Tolo Harbour
- Ostrea folium* Linnaeus, 1758
Tsi and Ma 1982; Lam and Morton (2003)
Hong Kong, no specific locality or habitat cited
- Planostrea pestigris* (Hanley, 1846)
Morris 1985; Scott 1994; Leung and Morton 1997, 2000; Lam and Morton (2003)
Tolo Channel, Tai Tam Bay, throughout SE Hong Kong; 11–33 m; rubble.
- Saccostrea cucullata* (Born, 1778)
Jiang and Zhou 1982; Ni and Huang 1985; Morris 1985; Tong 1986; Britton 1990; Taylor 1990; Morton 1990; Morton and Chan 1990; Huang *et al.* 1992b; Liu 1992; Rainbow 1993; Seed and Brotohadikusumo 1994; Taylor and Morton 1996; Chiu 1998; Huang *et al.* 1999; Chiu 2000; Lam 2000; Lam *et al.* 2000
Tolo Channel, Hoi Sing Wan, Hoi Ha Wan, Mirs Bay, Ting Kok, Cape d'Aguilar; upper to mid-tide zones; attached to pier pilings and rocks, in crevices, and in mangroves.
- Saccostrea echinata* (Quoy and Gaimard, 1834)
Jiang and Zhou 1982; Tsi and Ma 1982; Ni and Huang 1985; Huang *et al.* 1992b; Huang *et al.* 1999
Tolo Harbour, Mirs Bay; mid-tide zone; attached to piers and rocks.
- Saccostrea glomerata* (Gould, 1850)
Phillips and Yim 1981; Jiang and Zhou 1982; Tsi and Ma 1982; Huang *et al.* 1992b; Rainbow 1993
Mirs Bay; mid-tide zone; attached to pier pilings and rocks.
- Saccostrea mordax* (Gould, 1850)
Tsi and Ma 1982
Hong Kong, no specific locality or habitat cited.

Gryphaeidae

- Hyotissa sinensis* (Gmelin, 1791)
Morris 1985; Scott 1994; Lam and Morton (2003)
Ping Chau, Kat O Chau, Mirs Bay, Kung Chau, south of Cape d'Aguilar; 18–46 m; shell hash and rubble.

Plicatulidae

- Plicatula simplex* Gould, 1861
Tsi and Ma 1982
Hong Kong, no specific locality or habitat cited.
- Plicatula muricata* Sowerby, 1873
Tsi and Ma 1982
Hong Kong, no specific locality or habitat cited.

Plicatula australis Lamarck, 1819

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Plicatula plicatula (Linnaeus, 1758)

Dudgeon and Morton 1982; Jiang and Zhou 1982

Tolo Harbour and Channel; subtidal; associated with dead coral heads.

Pectinidae

Amusium pleuronectes (Linnaeus, 1758) (Plate 5B)

Morton 1980a; Scott 1994; Leung and Morton 1997, 2000

Off Cape d'Aguilar and Beaufort Island; 26–46 m; rubble and shell hash.

Chlamys crassicosata (Sowerby, 1842)

Purchon 1985

Hong Kong, no specific locality or habitat cited.

Chlamys nobilis (Reeve, 1852)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited

Minnivola pyxidatus (Born, 1780) (Plate 5C)

Tsi and Ma 1982; Shin 1985; Scott 1994; Morton 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000

Throughout SE Hong Kong; 18–46 m; mud, sand, rubble, shell hash.

Decatopecten plicus (Linnaeus, 1758)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Pecten sinensis Sowerby 1842 (Plate 5D)

Scott 1994; Leung and Morton 1997

Off Shek O, Tathong Channel; 24 m; sandy and sticky mud.

Volachlamys singaporina (Sowerby, 1842) (Plate 6A)

Scott 1994; Leung and Morton 1997, 2000

Waglan Island, Tathong Channel near Tit Cham Chau; 18 m; attached to rocks.

Spondylidae

Spondylus barbatus Reeve, 1856 (Plate 6B)Reid and Brand 1985; Purchon 1985 (as *S. sinensis* Sowerby, 1847)

Outer Tolo Channel, Mirs Bay; subtidal.

Spondylus ducalis Röding, 1798

Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; associated with dead coral heads

Spondylus squamousus Schreibers, 1793Tsi and Ma 1982 (as *S. fragum* Reeve, 1856)

Hong Kong, no specific locality or habitat cited.

Spondylus nicobaricus Schreibers, 1793

Reid and Brand 1985

Hoi Sing Wan; subtidal.

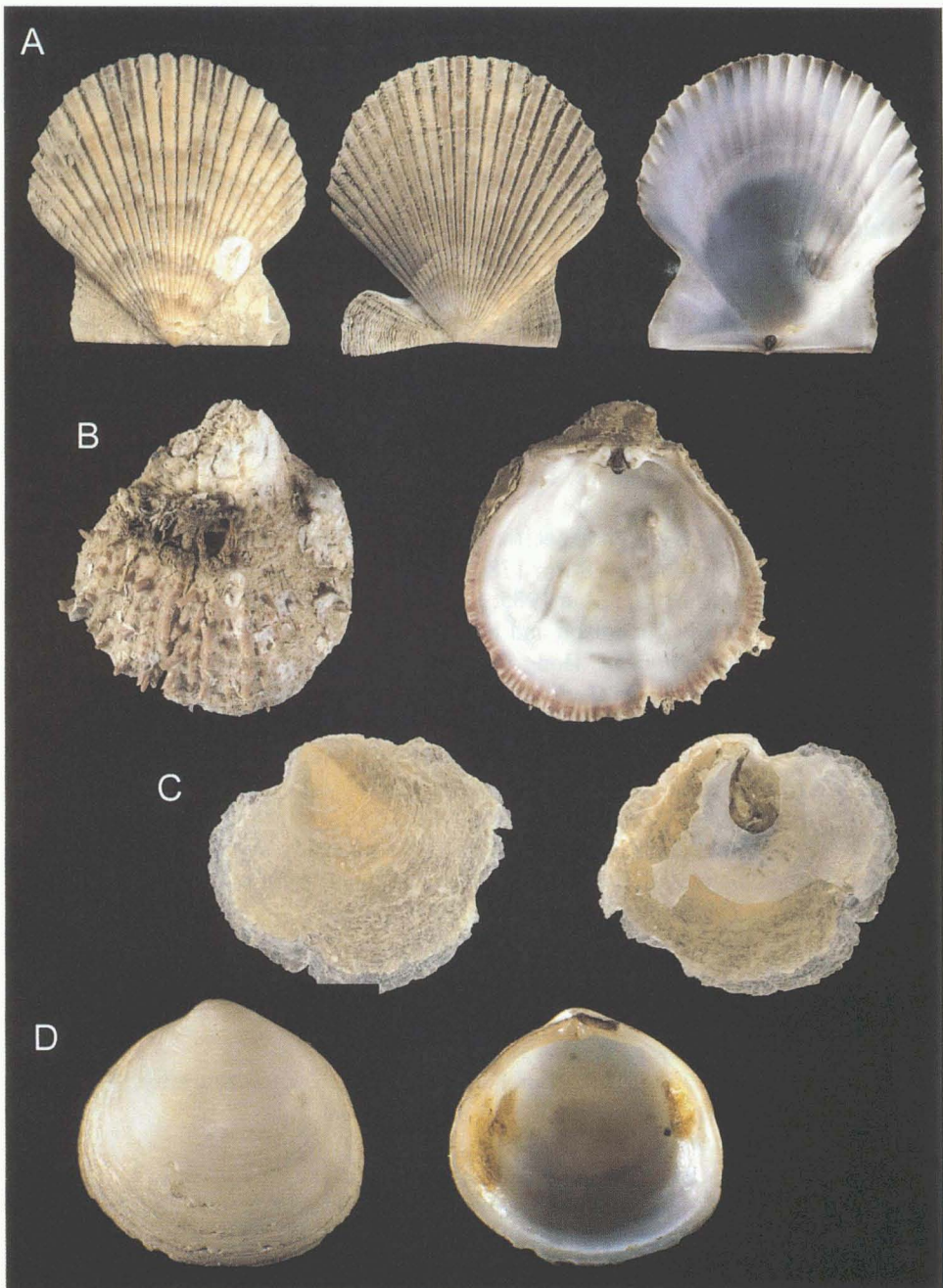


Plate 6. A, *Volachlamys singaporina* (Sowerby, 1842), SBMNH 141716, length 31.0 mm, Hong Kong, off Tit Cham Chau, trawl 31, 18 m; B, *Spondylus* cf. *barbatus*, SBMNH uncatalogued, length 68.0 mm, off Tit Cham Chau, 15 m; C, *Anomia chinensis*, SBMNH uncatalogued, length 19.5 mm; Hong Kong, off Ninepin Island, 30 m, off rock; D, *Diplodonta sowerbyi*, SBMNH 14719, length 8.8 mm, Hong Kong, off Cape d'Aguilar.

Anomiidae

Anomia chinensis Philippi, 1850 (Plate 6C)

Tsi and Ma 1982; Huang and Lin 1993; Ong Che and Morton 1991; Scott 1994; Lam 2000; Leung and Morton 2000

Throughout SE Hong Kong; 16–46 m; attached to rock, shells and debris.

Enignomia aenigmatica (Holten, 1803)

Tsi and Ma 1982

Monia umbonata (Gould 1861)

Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; associated with dead coral heads.

Placunidae

Placuna placenta (Linnaeus, 1758)

Li and Gao 1985; Lee 1993

Three Fathoms Cove, Mai Po Marshes; intertidal-subtidal; mangrove swamps, shrimp ponds.

Heterodonta

Lucinidae

Bellucina civica (Yokoyama, 1927)

Dudgeon and Morton 1982 (as *Parvilucina*); Ong Che and Morton 1991

Tolo Harbor, Tai Tam Bay; subtidal; sand, also associated with dead coral heads.

Codakia fibula (Reeve, 1850)

Morton and Harper 1997

Lobster Bay (Cape d'Aguilar); subtidal, sand.

Ungulinidae

Cycladicama abbreviata (Gould, 1861)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Diplodonta sowerbyi (Kuroda and Habe 1952) (Plate 6D)

Scott 1994

Off Cape d'Aguilar; 33 m; silt and mud.

Felaniella usta (Gould, 1861)

Ong Che and Morton, 1991

Tai Tam Bay; subtidal; sand.

Crassatellidae

Crassatellides nanus (Adams and Reeve, 1850)

Leung and Morton 2000

Beaufort Island; 54 m; mud, boulders, shell hash.

Carditidae

Cardita variegata Bruguière, 1792 (Plate 7A)

Tsi and Ma 1982; Dudgeon and Morton 1982; Ong Che and Morton 1992; Harper 1994; Scott 1994; Seed and Brotohadikusumo 1994; Leung and Morton 2000

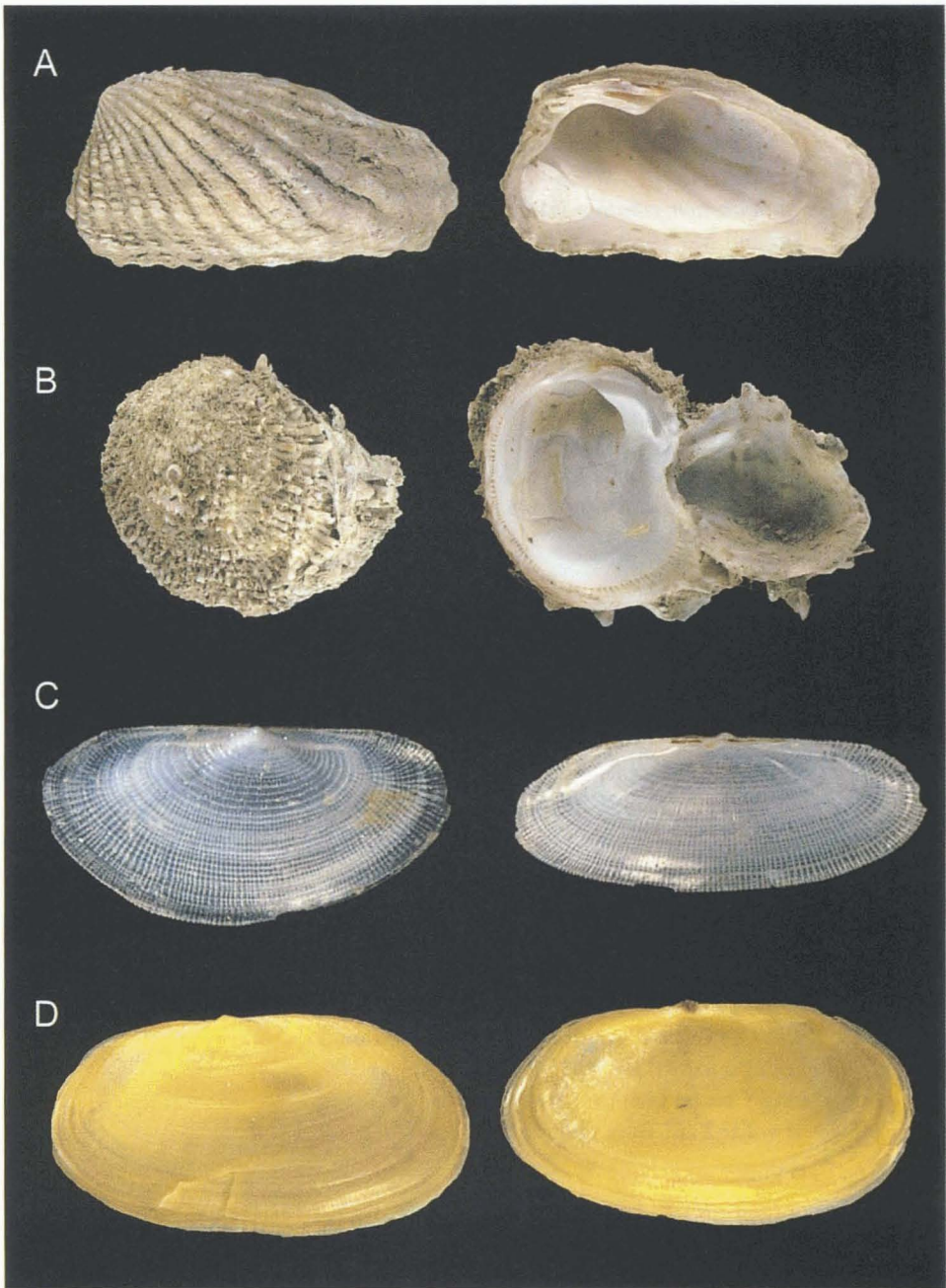


Plate 7. A, *Cardita variegata*, SBMNH 141720, length 16.0 mm, Hong Kong, off Waglan Island, 18 m; B, *Chama jukesi*, SBMNH, length 20.0 mm, Hong Kong, off Waglan Island, 18 m; C, *Ehippodonta oedipus*, SBMNH 35067, length 7.7 mm, Hong Kong, Chek Chau Island, Mirs Bay; in coral galleries; D, *Galeomma polita*, SBMNH 35066, length 12.3 mm, Hong Kong, Tolo Harbour, Ting Kok, intertidal.

Cape d'Aguilar, off Waglan Island, Tolo Harbour and Channel;
intertidal to 18 m; attached to rock, associated with coral heads.

Chamidae

Chama cf. *brassica* Reeve, 1847

Purchon 1985

Hong Kong, no specific locality or habitat cited.

Chama dunkeri Lischke, 1870

Jiang and Zhou 1982; Tsi and Ma 1982; Huang *et al.* 1992b

Tolo Harbour; low intertidal – subtidal; attached to rocks and hard substrata.

Chama jukesi Reeve, 1847 (Plate 7B)

Huang *et al.* 1992b; Scott 1994; Lam 2000

Mirs Bay, Tathong Channel, off Waglan Island; 10–18 m; attached to rocks.

Chama reflexa Reeve, 1846

Dudgeon and Morton 1982; Taylor 1996

Tolo Harbour and Channel; subtidal; associated with dead coral heads.

Galeommatidae

Entovalva semperi Ohshima, 1930

Morton and Scott 1989

Tap Shek Kok; 5–10 m; mud.

Ehippodonta oedipus Morton, 1976 (Plate 7C)

Morton 1976a; Dudgeon and Morton 1982; Morton and Scott 1989; Morton *et al.* 1991

Chek Chau Island, Mirs Bay; subtidal –12 m; in coral galleries.

Galeomma polita Deshayes, 1856 (Plate 7D)

Morton and Scott 1989

Hoi Sing Wan; intertidal; under rocks on sandy mud and rubble.

Galeomma takii Kuroda, 1945 (Plate 8A)

Morton 1973c; Morton and Scott 1989

Hoi Sing Wan, Ting Kok, Tai Tam Bay; intertidal; under rocks on sandy mud and rubble.

Pseudogaleomma japonica (A. Adams, 1864)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Scintilla cf. *cuvieri* Deshayes, 1856 (Plate 8B)

Morton and Scott 1989; Morton *et al.* 1991

Throughout Tolo Harbour; subtidal; in coral galleries.

Scintilla nitidella Habe, 1962 (Plate 8C)

Dudgeon and Morton 1982; Morton and Scott 1989; Morton *et al.* 1991

Throughout Tolo Harbour; subtidal; in coral galleries.

Scintilla cf. *opalinus* Kuroda and Habe, 1971

Morton and Scott 1989

Tai Tam Bay; intertidal; sandy mudflats, under stones.

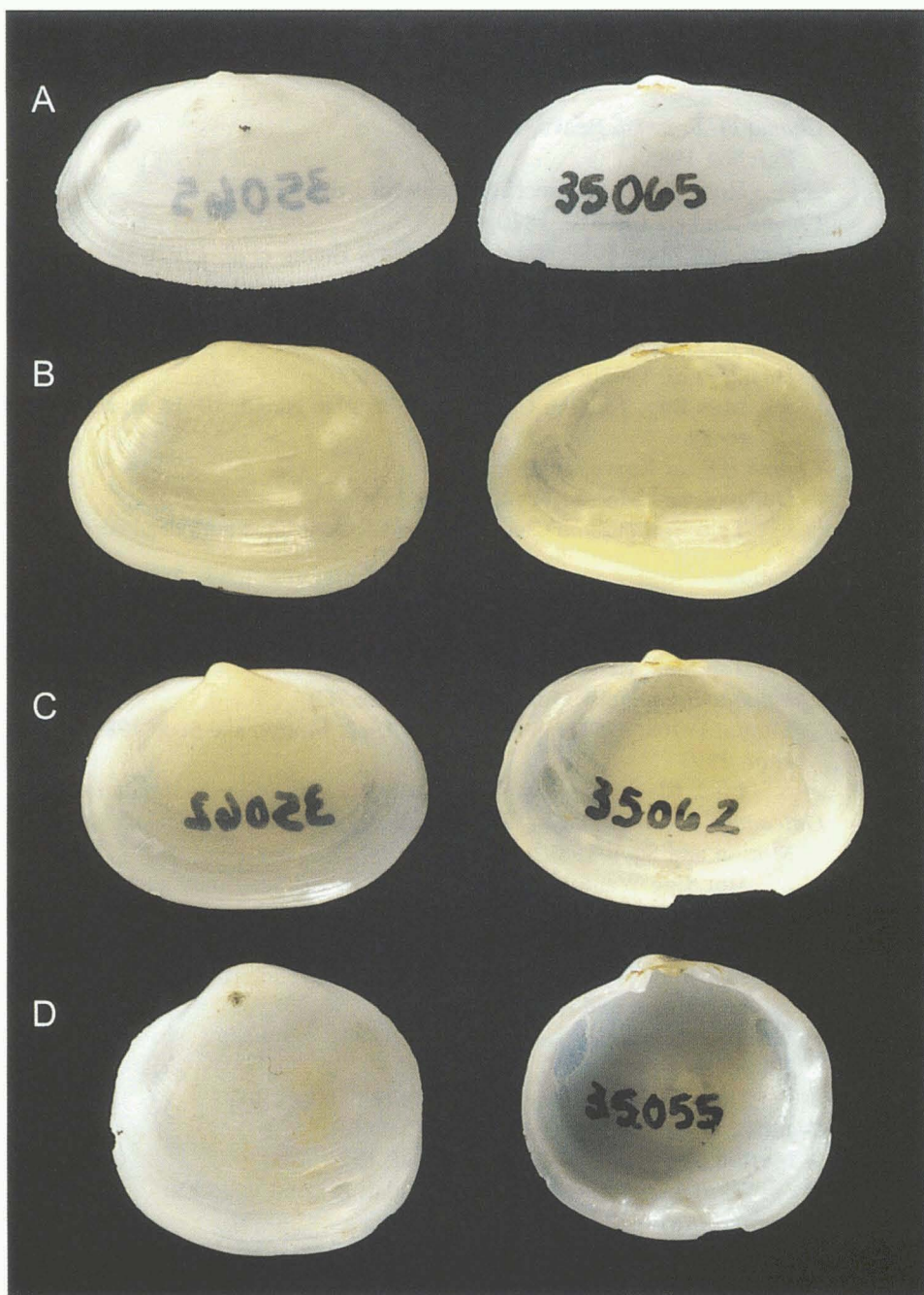


Plate 8. A, *Galeomma takii*, SBMNH 35065, length 15.4 mm, Hong Kong, Tolo Harbour, in coral galleries; B, *Scintilla cf. cuvieri*, SBMNH 35064, length 8.7 mm, Hong Kong, Tolo Harbour, in coral galleries; C, *Scintilla nitidella*, SBMNH 35062, 11.0 mm, Hong Kong, Tolo Harbour, in coral galleries; D, *Kellia porculus*, SBMNH 35055, length 10.5 mm, Hong Kong, Wu Kwai Sha.

Scintillona brissae Morton and Scott, 1989

Morton and Scott 1989

Tolo Channel; subtidal; mud, attached to spines of urchin *Brissus latecarinatus*.

Lasacidae

Barrimysia siphonosomae Morton and Scott, 1989Manning and Morton 1987 (as *Nipponomysella subtruncata*); Morton and Scott 1989Tai Tam Bay; intertidal; sandy mudflats, in burrows of and attached to echiuran *Siphonosoma cumanense*.*Curvemysella paula* (A. Adams, 1856)

Morton and Scott 1989

Lantau Island, Tong Fuk; intertidal; sand, inside shells occupied by hermit crabs.

Kellia porculus Pilsbry, 1904 (Plate 8D)

Dudgeon and Morton 1982; Morton and Scott 1989

Wu Kai Sha, Hoi Sing Wan; subtidal to 18 m; rocks and coral heads.

Lasaea cf. *nipponica* Keen, 1938

Morton 1990; Ong Che and Morton 1992

Cape d'Aguilar; intertidal; in *Septifer virgatus* assemblages.*Lasaea rubra* (Montagu, 1803)

Morton and Scott 1989

Hoi Sin Wan, Tolo Harbour, sheltered shores throughout Hong Kong; intertidal; nestling among *Brachidontes* and *Saccostrea*.*Lasaea undulata* (Gould, 1861)

Britton 1990

Tolo Channel

Rocheportia compacta (Gould, 1861)Morton 1980; Dudgeon and Morton 1982 (as *Montacutona*); Morton and Scott 1989 (as *Mysella*); Seed and Brotohadikusumo 1994;

Throughout Tolo Harbour, Cape d'Aguilar; intertidal-subtidal; nestling in coral crevices, in mussel beds.

Rocheportia mutsuwanensis (Yamamoto and Habe, 1959)Morton 1980d (as *Montacutona olivacea*); Morton and Scott 1989 (as *Mysella*)Hoi Sing Wan, Tolo Harbour; subtidal; sandy mud, attached to the burrowing sea anemone *Cerianthus*.*Rocheportia triangularis* (A. Adams, 1856)Morton and Scott 1989 (as *Mysella*)Hoi Sing Wan, Tolo Harbour; intertidal; protected rocky shores, amongst *Barbatia* and *Saccostrea*.*Paraborniola matsumotoi* Habe, 1958

Dudgeon and Morton 1982

Tolo Harbour and Channel; subtidal; associated with corals.

Pseudopythina ariakensis (Habe, 1959)

Morton and Scott 1989

Tap Shek Kok; subtidal to 10 m; mud, possibly sharing the burrow of the holothurian *Protankyra*.

Pseudopythina maipoensis Morton and Scott, 1989

Morton and Scott 1989; Lee 1993

Mai Po Marshes Nature Reserve; Hau Hoi Wan; intertidal to subtidal; in shrimp ponds and tidal mudflats.

Pseudopythina macrophthalmensis Morton and Scott, 1989

Morton and Scott 1989

Hoi Sing Wan, Tolo Harbour; intertidal; sandy mudflats, attached to the decapod *Macrophthalmus*.

Pseudopythina nodosa Morton and Scott, 1989

Manning and Morton 1987; Morton and Scott, 1989

Tai Tam Bay; intertidal; sandy mudflats; attached to the sipunculan *Sipunculus nudus*.

Pseudopythina ochetostomae Morton and Scott, 1989

Morton and Scott 1989

Ting Kok and Tai Tam Bay; intertidal; sandy mudflats, in the burrows of the echiuran *Ochetostoma erythrogrammon*.

Pseudopythina subsinuata (Lischke, 1871)

Morton 1972; Morton and Scott 1989

Hong Kong coastal waters; attached to the abdomen of at least four species of stomatopods.

Pseudopythina tsurumaru (Habe, 1959)

Morton and Scott 1989

Tap Shek Kok; subtidal; mud, possibly sharing the burrow of the holothurian *Protankyra*.

Trapeziidae

Coralliophaga coralliophaga (Gmelin 1791) (Plate 9A)

Scott 1980; Morton 1980e; Morton and Scott 1980; Dudgeon and Morton 1982

Tolo Harbour; subtidal; in crevices and borings in coral heads.

Trapezium sublaevigatum (Lamarck, 1819) (Plate 9B)

Morton 1979c; Jiang and Zhou 1982; Huang *et al.* 1992b; Huang and Lin 1993

Widely distributed in Hong Kong in small bays; intertidal-subtidal; nestling in rocks, attached by byssus to the undersides of stones and boulders, on pilings.

Corbiculidae

Corbicula fluminea (Müller, 1774) (Plate 9C)

Morton 1977b, c; Dudgeon 1980; Morton 1983; Morton and Tong 1985; Sang 1985; Morton 1986b; Morton 1987b; Tsoi *et al.* 1991

Plover Cove Reservoir, Lam Chuen River Valley and Wo Hang Valley, New Territories; freshwater streams/ditches.



Plate 9. A, *Coralliophaga coralliophaga*, SBMNH 53956, length 27.1 mm, USA Florida, Cedar Key; B, *Tapezium sublaevigatum*, SBMNH uncatalogued, length 19.8 mm, Australia, Queensland, South of Yeppoon, intertidal rocks; C, *Corbicula fluminea*, SBMNH 7999, length 23.7 mm, Korea, Saidong River; D, *Polymesoda erosa*, SBMNH 15759, length 88.8 mm, Solomon Islands, Choisel Island.

Corbicula fluminalis (Müller, 1774)

Morton 1973a; Dudgeon 1980; Morton 1982b; Morton 1986b; Morton 1987b

Pearl River; brackish waters

Cyrenobatissa subsulcata Clessin, 1817

Dudgeon 1980

Imported to Hong Kong, found in live shellfish markets.

Polymesoda erosa (Solander, 1786) (Plate 9D)

Morton 1976b; Morton 1984a; Li and Gao 1985; Depledge 1985b; Morton 1985b; Kueh 1987; Morton 1987a; Morton 1988b; Morton and Chan 1990

Ting Kok, Shuen Wan; intertidal; in mangroves.

Polymesoda sumatrensis (Sowerby, 1821)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Dreissenidae

Mytilopsis sallei (Recluz, 1849)

Morton 1980c; Morton 1987b

Tolo Harbour, Victoria Harbour; intertidal-subtidal; introduced from China, Vietnam, or Japan in ~1980.

Cardiidae

Bucardium asiaticum (Bruguère, 1792) (Plate 10A)

Shin 1985 (as *Vepricardium*); Scott 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000

Tolo Harbour, Mirs Bay, throughout SE Hong Kong; 18–29 m; mud, sand, shell hash.

Bucardium fimbriatum (Wood, 1815) (Plate 10B)

Scott 1994; Leung and Morton 1997, 2000

Tai Tam Bay, Stanley Bay; 13–18 m; mud and rocks.

Cardium multispinosum Sowerby, 1841

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Cardium cornatum (Spengler, 1799)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Fulvia hungerfordi (Sowerby, 1888)

Reid and Shin 1985; Shin 1985; Ong Che and Morton 1991; Leung and Morton 1997, 2000

Tolo Harbour, Tolo Channel, Mirs Bay; subtidal.

Maoricardium setosum (Redfield, 1846)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Vepricardium sinense (Sowerby, 1841) (Plate 10C)

Shin 1985; Shin 1990; Scott 1994; Leung and Morton 1997, 2000

Tolo Harbour, Tolo Channel, Mirs Bay, off Po Toi Island; subtidal to 31 m; coarse sand, shell hash, mud.

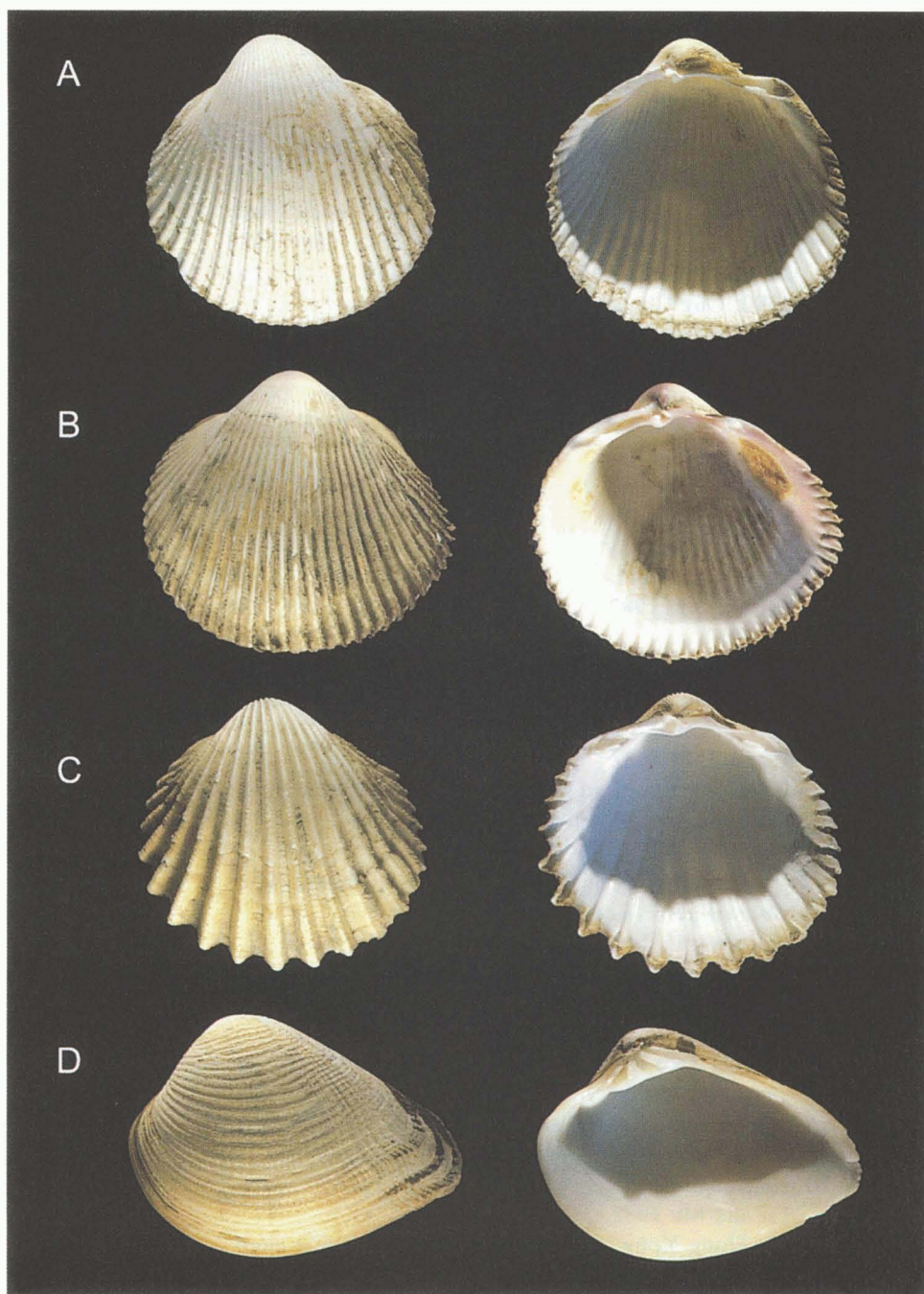


Plate 10. A, *Bucardium asiaticum*, SBMNH 141722, length 27.6 mm, Hong Kong, off Wang Lan, 18 m; B, *Bucardium fimbriatum*, SBMNH 141723, length 36.0 mm, Hong Kong, Tai Tam Bay, 11 m; C, *Vepricardium sinense*, SBMNH 141724, length 26.8 mm, Hong Kong, off Stanley, 31 m; D, *Anomalocardia squamosa*, SBMNH 121209, length 29.3 mm, China, Leizhou Bandao, Wushi.

Veneridae

- Anomalocardia flexuosa* (Linnaeus, 1767)
 Tsi and Ma 1982; Ong Che and Morton 1994
 Tai Tam Bay; intertidal; sand.
- Anomalocardia producta* Kuroda and Habe, 1951
 Purchon 1985
 Hong Kong, no specific locality or habitat cited.
- Anomalocardia squamosa* (Linnaeus, 1767) (Plate 10D)
 Morton 1978a; Tsi and Ma 1982; Shin 1985; Ansell and Morton 1985; Shin 1990; Ong Che and Morton 1993; Morton 1994
 Tai Tam Bay, Hoi Sing Wan, Wu Kwai Sha, Mirs Bay; intertidal; sand.
- Callocardia hungerfordi* (Sowerby, 1888) (Plate 11A)
 Scott 1994; Leung and Morton 2000; Morton 2000b
 Off Cape d'Aguilar, Beaufort Island, Po Toi Island; 20 – 35 m; coarse sand and mud.
- Circe hongkongensis* Jiang and Xu, 1992
 Jiang and Xu 1992; Ong Che and Morton 1995
 Tai Tam Bay; intertidal; sandy mud.
- Circe scripta* (Linnaeus, 1758) (Plate 11B)
 Tsi and Ma 1982; Shin 1985; Shin 1990; Scott 1994; Leung and Morton 1997
 Tolo Harbour, Tolo Channel, Mirs Bay, Tai Tam Bay, off Po Toi Island; subtidal to 18 m; coarse sand, silty clay.
- Circe tumefacta* Sowerby
 Tsi and Ma 1982
 Hong Kong, no specific locality or habitat cited.
- Cyclina sinensis* (Gmelin, 1791)
 Purchon 1985
 Hong Kong, no specific locality or habitat cited.
- Dosinia caerulea* (Reeve, 1850)
 Morton and Harper, 1997
 Lobster Bay (Cape d'Aguilar); subtidal, sand.
- Dosinia exasperata* (Philippi, 1847) (Plate 11C)
 Scott 1994
 Tai Tam Bay, off Po Toi Island; 15 – 18 m; fine sand.
- Dosinia histrio* (Gmelin 1791)
 Morton and Harper 1997
 Lobster Bay (Cape d'Aguilar); subtidal, sand.
- Dosinia japonica* (Reeve, 1850)
 Tsi and Ma 1982
 Hong Kong, no specific locality or habitat cited.
- Dosinia nanus* (Reeve, 1850) (Plate 11D)
 Scott 1994; Morton 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000
 Throughout SE Hong Kong; 18 – 55 m; gravely sand, coarse sand, fine sand, silty clay.

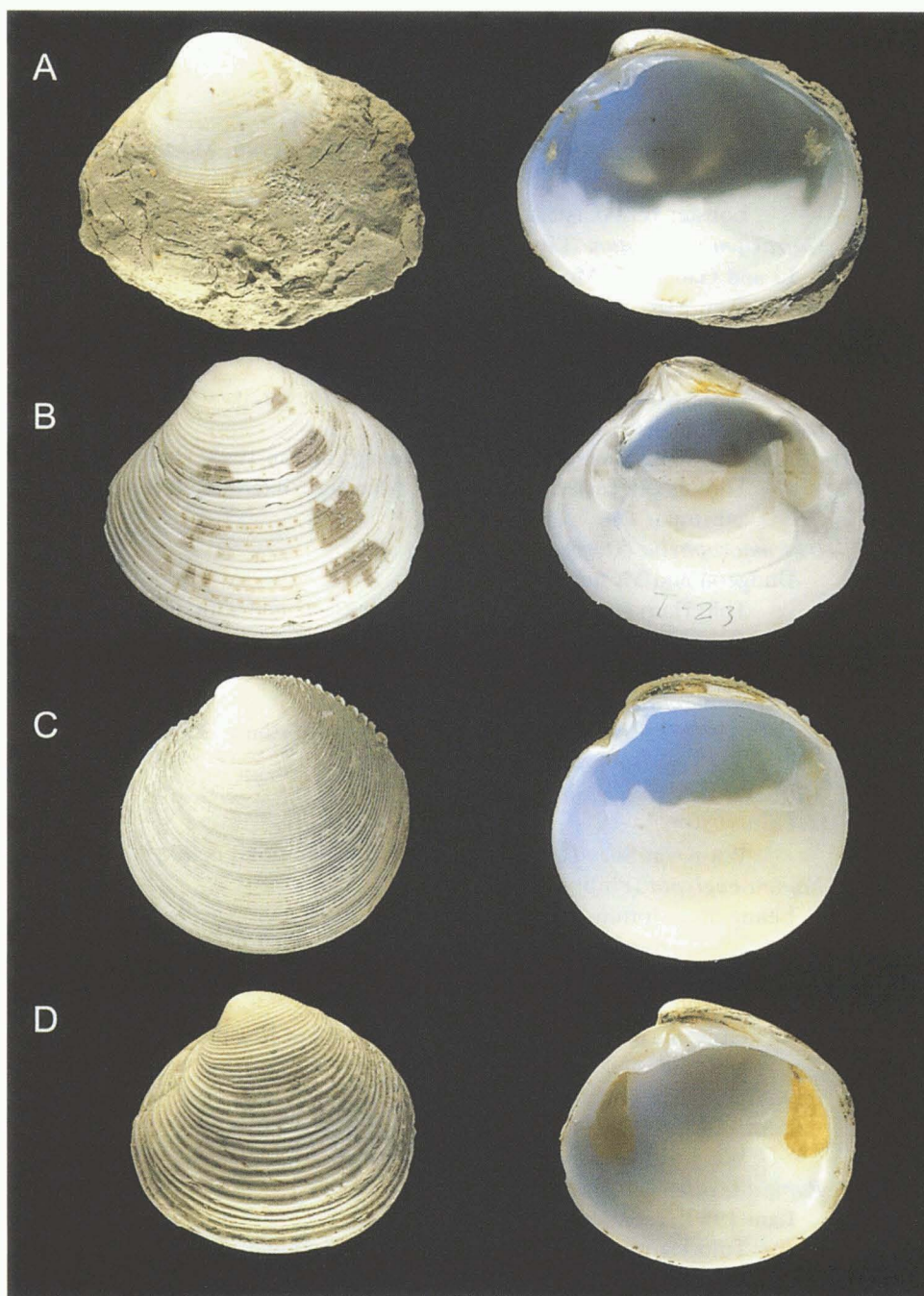


Plate 11. A, *Callocardia hungerfordi*, SBMNH 141725, length 12.0 mm, Hong Kong off Cape d'Aguilar, 28 m; B, *Circe scripta*, SBMNH 141726, length 35.5 mm, Hong Kong, Tai Tam Bay, 13 m; C, *Dosinia exasperata*, SBMNH 141727, length 37.8 mm, Hong Kong, off Poi Toi Island, 18 m; D, *Dosinia nanus*, SBMNH 141728, length 17.9 mm, Hong Kong, off Cape d'Aguilar, 28 m.

- Dosinorbis bilunulata* (Gray, 1838)
 Ong Che and Morton 1994
 Tai Tam Bay; intertidal; sand.
- Gafrarium divaricatum* (Gmelin 1791) (Plate 12A)
 Cha 1994; Harper 1994; Morton 1994; Taylor 1996, Morton and Harper 1997
 Lobster Bay (Cape d'Aguilar); subtidal, sand.
- Gafrarium pectinatum* (Linnaeus, 1758) (Plate 12B)
 Li and Gao 1985; Morton 1990b; Morton and Chan 1990
 Ting Kok; intertidal; in mangroves.
- Gafrarium tumidum* Röding, 1798
 Tsi and Ma 1982; Li and Gao 1985
 Hong Kong, no specific locality or habitat cited.
- Irus irus* (Linnaeus, 1758) (Plate 12C)
 Morton 1985b; Huang *et al.* 1992b; Huang and Lin 1993; Huang *et al.* 1999
 Throughout eastern Hong Kong, Mirs Bay; intertidal; attached to hard substrata.
- Irus macrophylla* (Deshayes, 1853)
 Dudgeon and Morton 1982
 Tolo Harbour and Channel; subtidal; associated with dead coral heads.
- Katelysia rimularis* (Lamarck 1818)
 Tsi and Ma 1982
- Katelysia hiantina* (Lamarck, 1818) (Plate 12D)
 Lam 1980; Tsi and Ma 1982; Ong Che and Morton 1993, 1994
 Tai Tam Bay; intertidal; sand.
- Marcia marmorata* (Lamarck, 1818)
 Lam 1980
 Wu Kwai Sha, Tai Tam Bay; intertidal-subtidal; mud.
- Paphia euglypta* (Philippi, 1847)
 Leung and Morton 2000
 North of Po Toi Island, Tung Lung Chau; 21–29 m; sand and boulders.
- Paphia gallus* (Gmelin, 1791) (Plate 13A)
 Scott 1994; Leung and Morton 1997
 Off Cape d'Aguilar, off Beaufort and Po Toi Islands; 18 – 55 m; coarse and fine sand.
- Paphia japonica* (Gmelin, 1791)
 Lam 1980; Kueh 1987
 Wu Kwai Sha, Tai Tam Bay; intertidal-subtidal; mud.
- Paphia textile* (Gmelin, 1791) (Plate 13B)
 Lam 1980; Tsi and Ma 1982; Shin 1985
 Tolo Harbour and Channel, Mirs Bay; subtidal; soft mud.
- Paphia undulata* (Born, 1780) (Plate 13C)
 Lam 1980; Horikoshi and Thompson 1980; Tsi and Ma 1982; Shin 1985; Shin 1989; Shin 1990; Ong Che and Morton 1991; Scott 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000
 Tolo Harbour, Tolo Channel, Mirs Bay, off Waglan Island, off Stanley Peninsula, Repulse Bay, Lamma Island; subtidal to 28 m; gravely sand, sand, silty clay.

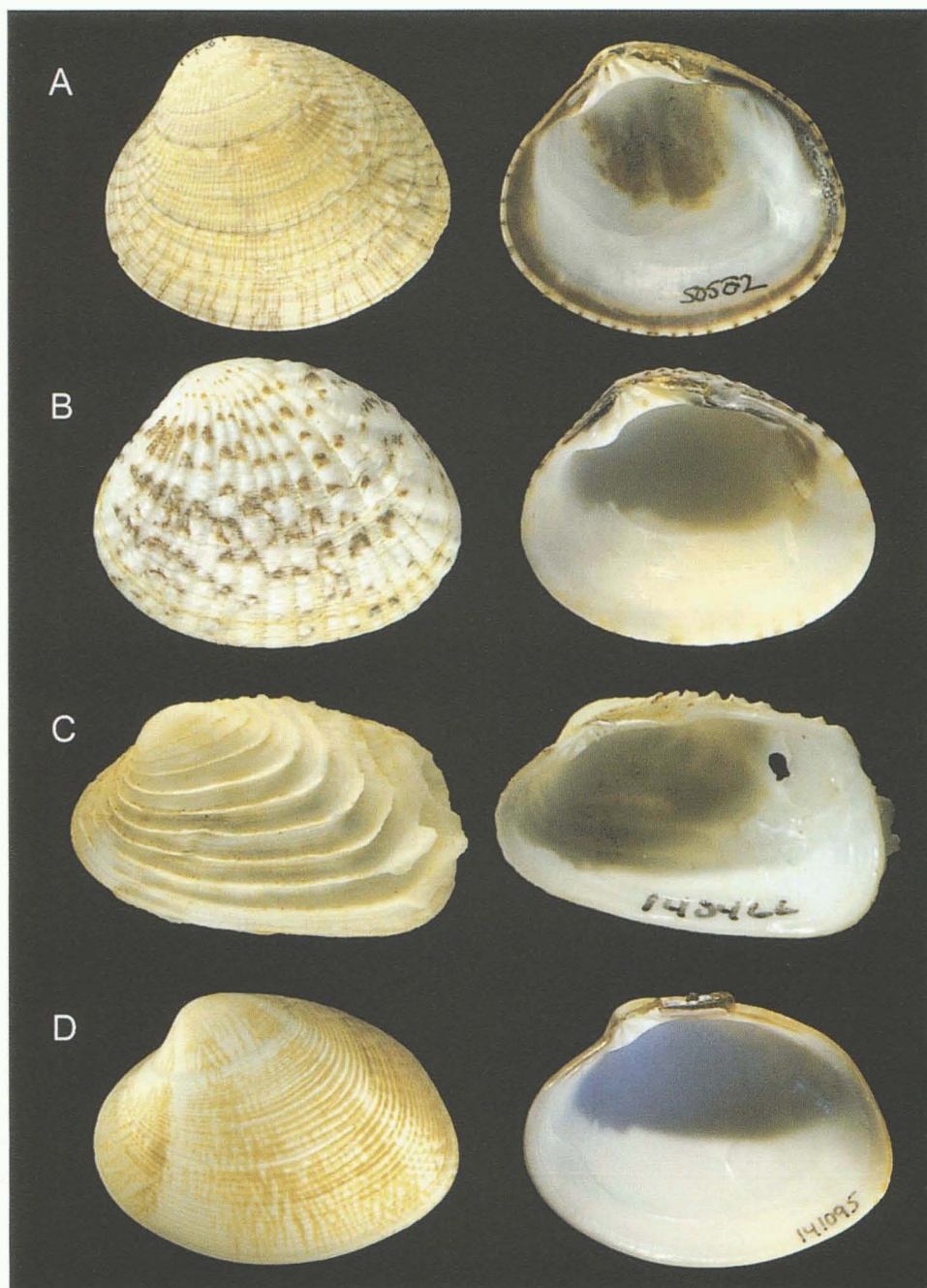


Plate 12. A, *Gafrarium divaricaum*, SBMNH 50582, length 35.4 mm, Japan, Tosa, 6 m; B, *Gafrarium pectinatum*, SBMNH uncatalogued, length 28.9 mm, Japan, Okinawa, Sobe Reef; C, *Irus irus*, SBMNH 140466, length 16.2 mm, Australia, Western Australia, Exmouth Gulf; D, *Katelysia hiantina*, SBMNH 141095, length 38.5 mm, Philippines, Cebu Island, Cebu, intertidal.

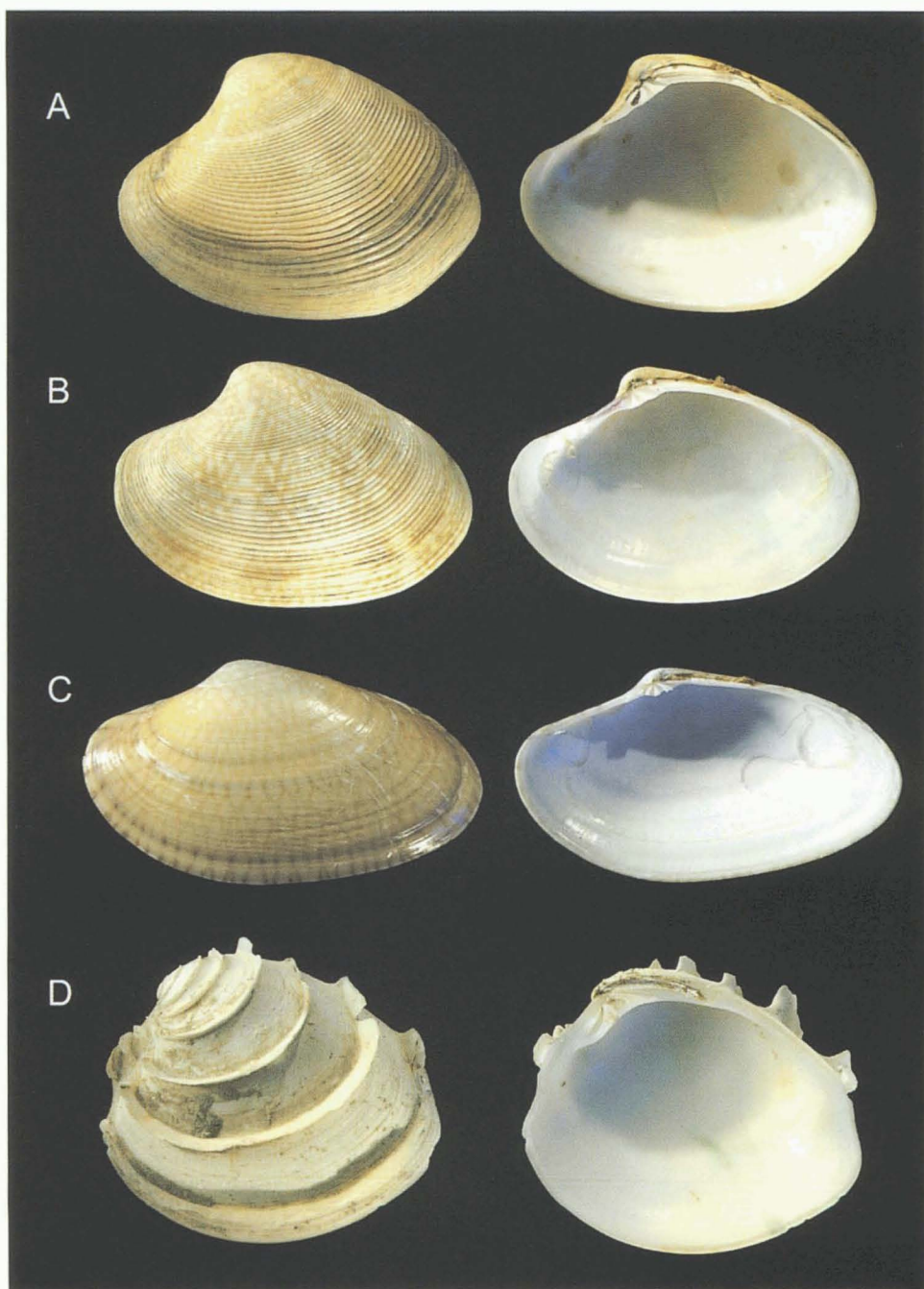


Plate 13. A, *Paphia gallus*, SBMNH 141729, length 54.9 mm. Hong Kong, off Lantau Island, 9 m; B, *Paphia textile*, SBMNH uncatalogued, length 37.0 mm, Hong Kong, off Lantau Island, 9 m; C, *Paphia undulata*, SBMNH 141730, length 51.5 mm, Hong Kong, Repulse Bay, 10 m; D, *Placamen calophyllum*, SBMNH 141731, length 27.1 mm, Hong Kong, off Poi Toi Island, 27 m.

Pitar affinis (Gmelin, 1791)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Pitar striata (Gray, 1825)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Placamen calophyllum (Philippi, 1836) (Plate 13D)

Horikoshi and Thompson 1980; Tsi and Ma 1982; Morton 1985a; Purchon 1985; Ansell and Morton 1985; Shin 1985; Shin 1989; Shin 1990; Ong Che and Morton 1991; Scott 1994; Morton 1994; Leung and Morton 1997, 2000; Nicholson and Morton 2000

Tolo Harbour, Tolo Channel, Mirs Bay, throughout SE Hong Kong; subtidal to 55 m; gravely sand, coarse sand, fine sand, clayey silt, silty clay.

Placamen isabellina (Philippi, 1849)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited

Ruditapes variegata (Sowerby, 1852)

Lam 1980; Tsi and Ma 1982; Shea 1992

Hoi Ha Wan; intertidal-subtidal; sand, mud.

Ruditapes philippinarum (Adams and Reeve, 1850) (Plate 14A)Lam 1980 (as *Tapes*); Day 1980 (as *Paphia* cf.); Tsi and Ma 1982; Shin 1985; Britton 1985; Ansell and Morton 1985; Morton 1991a; Shin 1990; Shea 1992; Ong Che and Morton 1993 1994; Cha 1994; Morton 1994; Taylor and Morton 1996; Morton and Harper 1997; Leung and Morton 1997, 2000

Tolo Harbour, Tolo Channel, Mirs Bay, Hoi Ha Wan, Lobster Bay (Cape d'Aguilar), Tai Tam Bay; intertidal-subtidal; sand, mud.

Tapes dorsatus (Lamarck, 1818)

Lam 1980

Wu Kwai Sha, Tai Tam Bay; intertidal-subtidal; sandy mud.

Tapes literalis (Linnaeus, 1758)

Lam 1980; Morton and Harper 1997

Wu Kwai Sha, Lobster Bay (Cape d'Aguilar); subtidal, sand.

Tapes turgida (Lamarck, 1818)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Veremolpa micra (Pilsbry, 1904)

Horikoshi and Thompson 1980; Shin 1985; Shin 1990

Tolo Harbour, Tolo Channel, Mirs Bay; subtidal.

Veremolpa scabra (Hanley, 1844) (Plate 14B)

Narchi 1980b; Shin 1989; Ong Che and Morton 1991; Scott 1994; Ong Che and Morton 1995; Leung and Morton 1997, 2000; Nicholson and Morton 2000

Off Beaufort Island, off Waglan Island; 25–55 m; mud.

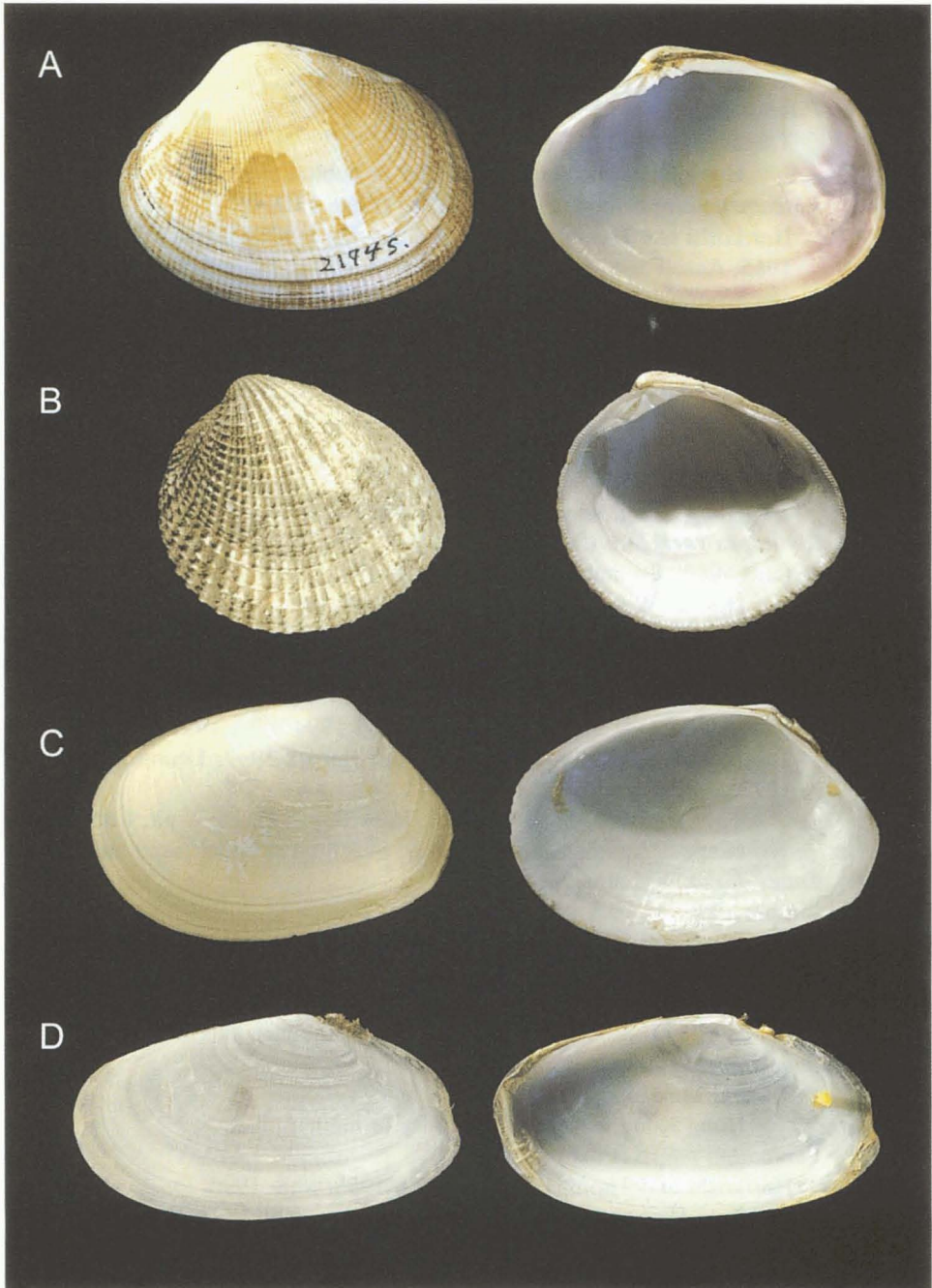


Plate 14. A, *Ruditapes philippinarum*, SBMNH 121945, length 40.5 mm, Hawaii, Oahu, fishmarket; B, *Veremolpa scabra*, SBMNH uncatalogued, length 11.4 mm, Hong Kong, Tai Tam Bay, 7 m; C, *Macoma candida*, SBMNH uncatalogued, length 40.2 mm, Hong Kong, off Bokhara Rocks, 26 m; D, *Tellina vestalis*, SBMNH uncatalogued, length 23.8 mm, Hong Kong, off Poi Toi Island, 20 m.

Petricolidae

Claudiconcha japonica (Dunker, 1882)

Morton 1978b; Tsi and Ma 1982; Britton 1990

Ma Shi Chau, Tolo Channel; intertidal; in crevices and fissures of rocks.

Tellinidae

Macoma candida (Lamarck, 1818) (Plate 14C)

Tsi and Ma 1982; Scott 1994; Leung and Morton 1997, 2000

Off Stanley Peninsula, off Cape d'Aguilar; 15 – 29 m; sand, mud.

Moerella culter (Hanley, 1844)

Horikoshi and Thompson 1980

Tolo Harbour and Channel; subtidal; mud.

Psammotreta praerupta (Salisbury, 1934)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Semelangulus miyatensis (Yokoyama, 1920)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Tellina cygnus Hanley, 1844

Scott 1994; Leung and Morton 1997, 2000

Tai Tam Harbour, off Beaufort Island; 1 – 28 m; silt, sand.

Tellina pallidula Lischke, 1871

Scott 1994; Leung and Morton 2000

Off Cape d'Aguilar, off Po Toi Island, 28 – 35 m; mud.

Tellina vestalis Hanley, 1844 (Plate 14D)

Tsi and Ma 1982; Scott 1994; Leung and Morton 1997, 2000

Throughout SE Hong Kong; 7 – 35 m; fine sand to sticky mud.

Tellinides corbuloides (Hanley)

Shin 1985; Shin 1990

Tolo Harbour, Tolo Channel, Mirs Bay; subtidal.

Tellinella spengleri (Gmelin, 1791)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Donacidae

Donax cuneatus Linnacus, 1758

Tsi and Ma 1982; Ansell 1985; Shea 1992

Long Kei Wan, Cheung Sha, Hoi Ha Wan; intertidal; sand, mud.

Donax faba Gmelin, 1789

Ansell 1985; Ansell and Morton 1985; Shea 1992

Throughout Hong Kong in low energy environments, Hoi Ha Wan; intertidal; sand, mud.

Donax incarnatus Gmelin, 1789

Ansell 1985

Big Wave Bay, Repluse Bay; intertidal; sand.

Donax semigranosus Dunker, 1877

Ansell 1985

Throughout Hong Kong in high energy environments; intertidal; sand.

Semelidae

Abrina declivis (Sowerby, 1868)

Scott 1994; Leung and Morton 2000

Off Beaufort and Po Toi Islands; 28 – 35 m; fine sand, mud.

Semele crenulata (Sowerby, 1843)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Semele sinensis A. Adams, 1854

Morton and Harper 1997

Lobster Bay (Cape d'Aguilar); subtidal, sand.

Theora lata (Hinds, 1844)

Shin 1985; Shin 1989; Shin 1990; Mackie *et al.* 1993; Ong Che and Morton 1991; Ong Che and Morton 1995; Leung and Morton 1997

Tolo Harbour, Tolo Channel, Mirs Bay, off Waglan Island; subtidal–30 m.

Theora lubrica Gould, 1861

Horikoshi and Thompson 1980

Tolo Harbour and Channel; subtidal; mud

Psammobiidae

Asaphis dichotoma (Anton, 1839)

Day 1980; Narchi 1980a; Tsi and Ma 1982; Britton 1985; Depledge 1985a
Hoi Sing Wan; intertidal; deeply buried between cobbles and crevices
in gravel.

Gari lessoni (Blainville, 1826) (Plate 15A)

Scott 1994; Leung and Morton 1997

Off Waglan Island; 18 m; coarse sand, shell hash, mud.

Gari maculosa (Lamarck, 1818)

Morton and Harper 1997

Lobster Bay (Cape d'Aguilar); subtidal, sand.

Gari radiata (Lamarck, 1818)

Morton and Harper 1997

Lobster Bay (Cape d'Aguilar); subtidal, sand.

Gari truncata (Linnaeus, 1767)

Shin 1989; Ong Che and Morton 1991

East of Wanglan Island; 25–30 m; silt and clay.

Zozia coarctata (Gmelin, 1791)

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Solecurtidae

Azorinus abbreviatus (Gould, 1861) (Plate 15B)

Shin 1989; Leung and Morton 1997

Near Waglan Island; 17–30 m; rocky.

Dreissenidae

Mytilopsis sallei (Récluz, 1849)

Huang *et al.* 1992b; Lee 1993; Taylor 1993; Huang *et al.* 1999

Introduced into Hong Kong, Victoria Harbour intertidal – subtidal;
attached to pilings.

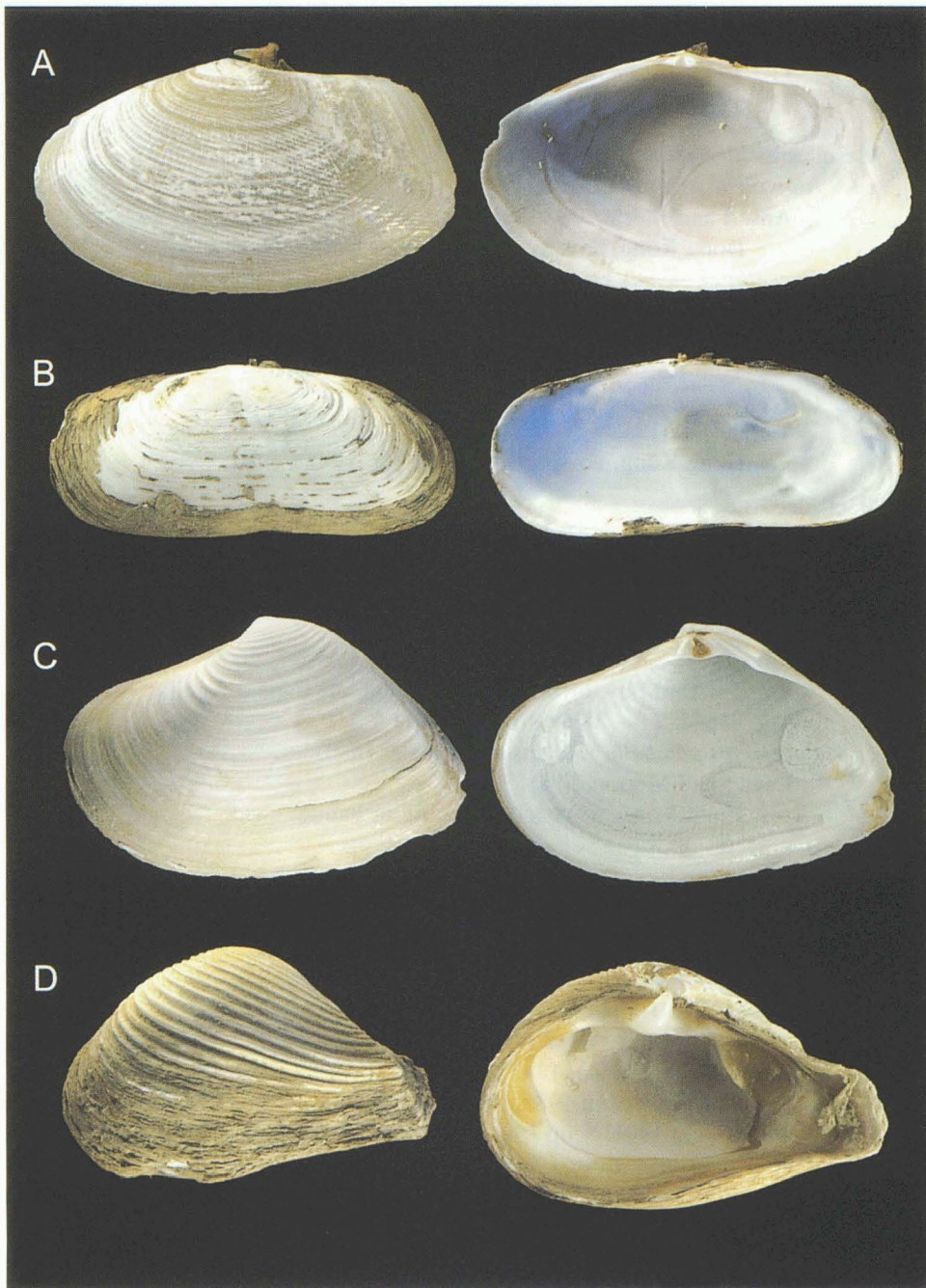


Plate 15. A, *Gari lessoni*, SBMNH 141738, length 20.6 mm, Hong Kong, off Wang Lan, 18 m; B, *Azorinus abbreviatus*, SBMNH 141739, length 47.0 mm, Hong Kong, off Poi Toi Island, 35 m; C, *Mastrinula reevesi*, SBMNH 141740, length 32.1 mm, Hong Kong, Tai Tam Bay, 11 m; D, *Corbula crassa*, SBMNH 141741, length 21.0 mm, Hong Kong, off Cape d'Aguilar, 15–29 m.

Glauconomidae

Glaucome chinensis Gray 1828

Lee 1993; Ong Che and Morton 1993, 1994
Tai Tam Bay; intertidal; sand.

Mesodesmatidae

Atactodea striata (Gmelin, 1791)

Ansell and Morton 1985 (as *Atactodea*)
Hong Kong, no specific locality or habitat cited.

Caecella chinensis Deshayes, 1855

Day 1980; Narchi 1980a; Britton 1985; Ansell and Morton 1985; Britton
1990; Ong Che and Morton 1993, 1994
Tolo Harbour, Tai Tam Bay; intertidal; sand.

Caecella erythron Lamarck, 1818

Tsi and Ma 1982
Hong Kong, no specific locality or habitat cited.

Mactridae

Mactra mera Reeve, 1853

Purchon 1985
Hong Kong, no specific locality or habitat cited.

Macrinula reevesi (Gray, 1837) (Plate 15C)

Shin 1989; Scott 1994; Leung and Morton 1997, 2000
Tai Tam Bay, off Sung Kong Island, off Cape d'Aguilar, off Wanglan
Island; 11 – 27 m; silt and mud.

Raetellops pulchella (Adams and Reeve, 1850)

Leung and Morton 2000
Hong Kong, no specific locality or habitat cited.

Corbulidae

Anisocorbula cuneata (Hinds, 1844)

Ong Che and Morton 1991
Tai Tam Bay; subtidal; sand.

Anisocorbula venusta (Gould, 1861)

Morton and Harper 1997
Lobster Bay (Cape d'Aguilar); subtidal, sand.

Corbula crassa (Hinds, 1843) (Plate 15D)

Purchon 1985; Shin 1985; Shin 1989; Shin 1990; Morton 1990c; Ong Che
and Morton 1991; Scott 1994; Morton 1994; Leung and Morton 1997, 2000;
Nicholson and Morton 2000
Tolo Harbour, Tolo Channel, Mirs Bay, throughout SE Hong Kong;
subtidal to 35 m; gravely sand, coarse sand, fine sand, clayey silt, silty
clay.

Corbula erythron Lamarck, 1818

Tsi and Ma 1982
Hong Kong, no specific locality or habitat cited.

Pharellidae

Sinonovacula constricta Lamarck, 1818

Li and Gao 1985

Three Fathoms Cove; intertidal; in mangrove areas.

Solenidae

Solen corneus Lamarck, 1818

Morton 1984b

Hoi Ha Wan; intertidal – subtidal; mudflats.

Solen roseamaculatus (Pilsbry, 1901)

Ong Che and Morton 1991

Tai Tam Bay; subtidal; sand.

Hiatellidae

Hiatella orientalis (Yokoyama, 1920)

Huang *et al.* 1992b; Huang and Lin 1993

Mirs Bay; intertidal – subtidal; attached to pilings.

Gastrochaenidae

Gastrochaena cuneiformis Spengler, 1783 (Plate 16A)

Scott 1980; Tsi and Ma 1982

Eastern waters of Hong Kong; subtidal; boring in dead coral.

Gastrochaena cymbium Spengler, 1783

Morton 1982c

Mirs Bay, Tolo Harbour; subtidal – 8 m; coarse sand, boring into dead bivalve shells.

Gastrochaena interrupta Deshayes, 1854

Scott 1980

Eastern waters of Hong Kong; subtidal; boring in dead coral.

Gastrochaena laevigata Deshayes, 1854

Scott 1980

Eastern waters of Hong Kong; subtidal; boring in dead coral.

Gastrochaena ovata Sowerby, 1834

Tsi and Ma 1982

Hong Kong, no specific locality or habitat cited.

Pholadidae

Barnea manilensis (Philippi, 1847)

Tsi and Ma 1982; Morton 1985c; Purchon 1985

Sham Chung, Tolo Harbour; low intertidal; boring in soft sedimentary rocks

Martesia striata (Linnaeus, 1758) (Plate 16B)

Morton 1971; Fung and Morton 1976; Tsi and Ma 1982; Leung and Morton 2000

Throughout Hong Kong; boring into submerged wood and plastic (PVC).

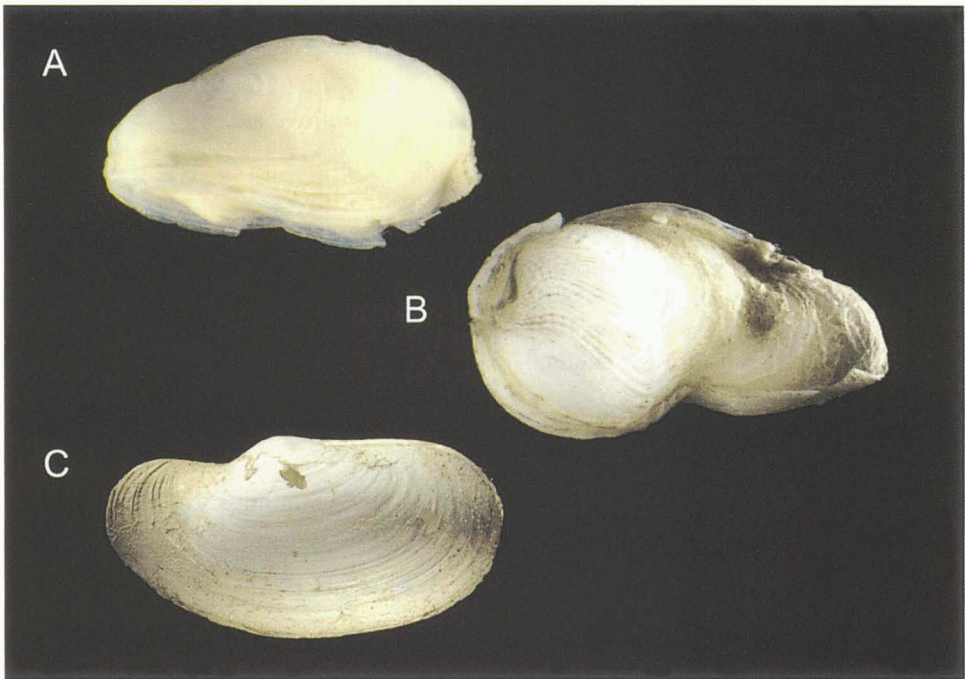


Plate 16. A, *Gastrochaena cuneiformis*, SBMNH uncatalogued, length 8.1 mm, Hong Kong, off Waglan Island, 18 m; B, *Martesia striata*, SBMNH uncatalogued, length 6.7 mm, Hong Kong, off Waglan Island, 18 m; C, *Laternula anatina*, SBMNH 141742, length 26.4 mm, Hong Kong, off Waglan Island, 18 m.

Teredinidae

Bankia campanellata Moll and Roch, 1931

Fung and Morton 1976

Throughout Hong Kong; in submerged wood.

Lyrodus medilobatus (Edmondson, 1942)

Fung and Morton 1976

Throughout Hong Kong; in submerged wood.

Lyrodus pedicellatus (Quatrefages, 1849)

Fung and Morton 1976

Throughout Hong Kong; on submerged wood.

Lyrodus singaporeana (Roch, 1935)

Morton 1991

Three Fathoms Cove, New Territories; intertidal; boring in mangroves.

Lyrodus tristi Iredale, 1936

Fung and Morton 1976

Throughout Hong Kong; in submerged wood.

Nausitoria hedleyi Schepman, 1919

Fung and Morton 1976

Throughout Hong Kong; in submerged wood.

- Teredo furcifera* von Martens, 1894
Fung and Morton 1976
Throughout Hong Kong; in submerged wood.
- Teredo johnsoni* Clapp, 1924
Fung and Morton 1976
Throughout Hong Kong; in submerged wood.
- Teredo navalis* Linnaeus, 1758
Fung and Morton 1976
Throughout Hong Kong; in submerged wood.

Anomalodesmata

Pandoridac

- Frenamya ceylanica* (Sowerby, 1835)
Morton 1984c; Morton 1985b; Shin 1985
Mirs Bay; 8 – 10 m; fine mud.

Lyonsiidae

- Lyonsia kawamurai* (Habe, 1952)
Ong Che and Morton 1991
Tai Tam Bay; subtidal; sand.

Laternulidac

- Laternula anatina* (Linnaeus, 1758) (Plate 16C)
Scott 1994; Leung and Morton, 1997, 2000
Off Wang Lan Island, Stanley Bay; 18 – 20 m; coarse sand, shell hash,
silt.
- Laternula truncata* (Lamarck, 1818)
Adal and Morton 1973; Morton 1973b; Morton 1985d
Ting Kok mangrove, Tolo Harbour; intertidal-subtidal; coarse sand.

CONCLUSIONS

The Hong Kong Bivalvia have been extensively studied for the past 30 years. A quantum leap of understanding on this group has occurred in this period, not only in Hong Kong waters, but also throughout Asia. A primary goal of this paper has been to consolidate this information and make it accessible in a taxonomic format. In the course of this collation, it has become obvious that many of the same species have been called by different names by researchers. It is hoped that a future worker on the Hong Kong bivalves will undertake the task of preparing complete synonymies for these taxa.

While some Hong Kong bivalve species are well known, with synonymies, descriptions and illustrations, most are poorly documented. It is hoped that a future worker will take on the task of creating a descriptive monograph that will stabilize the taxonomy of the Hong Kong Bivalvia. Another aid to this process will be the vouchering of each species published into university and museum collections.

ACKNOWLEDGEMENTS

Dr. Katherine Lam and Ms. Manna Wan gave assistance checking synonymics and obtaining literature. Prof. Brian Morton carefully read the manuscript and provided many useful suggestions, as well as continual support and patience. Financial assistance is gratefully acknowledged from The Lawrence Caplin Scholarship in Marine Biology.

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