

MOLLUSCS OF THE MONTEBELLO ISLANDS

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Summary

Six hundred thirty-three species of molluscs are recorded from the Montebello Islands, north-western Australia. This is the second highest diversity of molluscs recorded on any of the surveys of tropical reef systems conducted by the Western Australian Museum; only the expedition to the Muiron Islands and eastern Exmouth Gulf recorded more species of molluscs (655). It is comparable to three surveys of the central area of the Indo-West Pacific conducted by Conservation International, though the CI surveys included only one malacologist. Of those species recorded from the Montebellos whose distributions are known, the great majority are widespread Indo-West Pacific species. A single warm temperate Australian species, *Thais orbita*, was collected. The molluscan assemblage at the Montebellos is characteristic of the continental coastline, not the offshore atolls. *Drupella cornus*, a corallivorous species known to cause considerable damage to corals along the Ningaloo Reef Tract in Western Australia, is present at the Montebellos, but no damage to coral populations was found.

Introduction

Over the last 25 years the Western Australian Museum has conducted a number of surveys of the marine fauna inhabiting coral reefs on the north coast of the state. These include reefs along the inshore coastline such as the Dampier Archipelago, North West Cape, Muiron Islands and eastern shore of Exmouth Gulf, and Bernier and Dorre Islands in Shark Bay, the Houtman Abrolhos, and offshore atolls such as the Rowley Shoals, Scott and Seringapatam Reefs and Ashmore Reef. The molluscan component of the August 1993 survey of the Montebello Islands survey is reported here.

Methods

In order to obtain as many species of molluscs as possible of >5 mm in shell length, collecting was undertaken from 8 to 26 August 1993 in a variety of ways, including extensive SCUBA diving and reef walks at low tide, and less extensive dredging and sorting of drift algae. All of the major marine habitats of the Montebellos were collected: the

various types of coral reef, intertidal rocky and sandy shores, and mangroves. The centre portions of the archipelago are characterised by an extensive system of protected channels between the islands. Collecting was done both in the channels and the exposed areas outside of the islands.

In addition, the senior author collected molluscs during a short visit to the Montebellos from 19 to 21 August 1986. Species collected during that trip are included on the present list as station numbers preceded by a W. The stations collected were: W1. West side Trimouille I.; W2. East side Trimouille I.; W3. Tide Pole Bay, Trimouille I.; W4. Northwest corner, Trimouille I.; W5. Northwest I.; W6. Stephenson's Passage; W7. Bay on southern end of Hermite I.; W8. Mangroves near southern end of Hermite I.; W9. Northern Hermite I.

Results and Discussion

The 12,000 km coastline of Western Australia can be divided into three components. The tropical north coast, which extends northeast from North West Cape, is part of the vast Indo-West Pacific province. The south coast, east of Cape Leeuwin, is continuous with the remainder of the southern Australian warm temperate province. The west coast, between Cape Leeuwin and North West Cape, is an area of overlap between the south coast warm temperate and north coast tropical faunas. About 10% of the shallow water marine molluscs of Western Australia are endemic to the State; most of these occur on the west coast for at least part of their distribution (Wilson and Gillett, 1971; Wells, 1980; 1997; Wilson and Allen, 1987).

Being on the north coast, the Montebellos have an essentially tropical molluscan assemblage. One surprise during the survey was the collection of a recently dead specimen of the southern Australian *Thais orbita*, found outside its previously known range of as far north as North West Cape. This was the only southern temperate species of mollusc collected during the survey. Many of the ranges of species are poorly known. Wells (1980) based his analysis of molluscan distribution patterns in Western Australia on the 20 families of gastropods for which there are the best data. In the Montebellos 217 species of these families were identified at least tentatively to species. Ten of

these (4.6%) are known only from Western Australia.

The 633 species collected during the survey demonstrated a far higher molluscan species diversity than was found on any of the previous surveys in Western Australia except for the expedition to the Muiron Islands and the eastern shores of Exmouth Gulf (Tables 7 and 8). Diversity in the Montebellos was similar to that recorded by three subsequent expeditions to the coral triangle of the Indo-West Pacific undertaken by Conservation International: Milne Bay, Papua New Guinea; Calamian Islands, Philippines; and Toggian and Banggai Islands, Indonesia. There are several possible reasons for the increased diversity in the Montebellos. The Montebellos expedition was longer than some of the previous surveys; the additional time clearly allowed some additional species to be collected. In addition there were three people collecting molluscs on the Montebello Expedition, compared to only one on the Conservation International trips.

However, the major reasons for the high mollusc diversity in the Montebellos appear to be biological. The Montebello Islands and their associated reefs shelter an expanse of relatively shallow waters with a mixture of hard and soft substrates and with generally good water circulation because of the tidal range and the physiography of the bottom. The extent of these sheltered waters is unusual along the Western Australian coast and unique in the Pilbara region.

As a result, in the waters of the Montebellos there is a large concentration of habitat types otherwise uncommon in the area. This range of habitats seems to be associated with an unusually high diversity in the Montebellos of some groups of molluscs. The large expanse of semi-sheltered sandy lagoon supports a high diversity of filter-feeding bivalves living infaunally in soft substrates. Some of the species have much higher population densities than are found in other parts of the Pilbara. Included among these are species of the families Spondylidae, Ostreidae, Gryphaeidae and Chamidae which may be so dense as to actually cover some of the semi-sheltered reefs to which they are cemented. Sand-burrowing scaphopods of the genus *Laevidentalium* and pyramidellid gastropods are also unusually abundant.

In comparison to the abundance of some bivalve groups is the relative sparsity of other species that are common in various parts of the Pilbara. Among these are species of wing shells of the genus *Pteria* (family Pteriidae) which live byssally-attached, mainly to gorgonians.

However the absence of some species is due, as would be expected, to the absence or rarity of some types of habitats, such as those associated with run-off of freshwater bearing terrigenous sediments.

Mangrove assemblages are simple and small, without much species diversity. As a consequence, the molluscs characteristic of mangroves are depauperate. For example, only one record of an ark shell of the genus *Anadara* (family Arcidae) was made, although some fossilised shells were found on dry salt pans. This genus is well represented in Pilbara mainland intertidal and shallow sublittoral sand and mud habitats by generally large populations of a few species. On the other hand both species of *Terebralia* which are associated with Pilbara mangroves were found; *Telescopium*, which occurs in a similar habitat, was not recorded in the Montebellos. The oyster *Hyotissa numisma* is abundant under intertidal rocks in the Dampier Archipelago but only one specimen was obtained during this survey.

Diversity of molluscs in the Montebellos varies considerably between the various classes. Gastropods typically comprise about 80% of the species in the phylum, and 401 species were recorded in the Montebellos, 63.3% of the total. This was a smaller proportion than found on some of the previous expeditions. Bivalves were more diverse than usual, with 223 species (35.2%). Polyplacophorans (4 species), cephalopods (3) and scaphopods (2) were only minor elements of molluscan diversity.

During the late 1980s and early 1990s population explosions of the neogastropod *Drupella cornus* occurred along the Ningaloo Reef Tract on the west side of North West Cape, causing considerable damage to the corals (summarised in Turner, 1992). Hilliard and Chalmer (1992) undertook a survey of population densities of the species along the Pilbara coast. Their study included the Lowendale Islands, just south of the Montebellos, but did not include the Montebello Islands themselves. Hilliard and Chalmer found feeding aggregations of *D. cornus*, particularly in the western half of the study area, which caused localised damage to coral populations, but no major outbreak. *Drupella cornus* was found at 7 stations during the Western Australian Museum Montebellos survey. While no attempt was made to quantify the populations of *D. cornus*, only a few individuals were seen and there was no apparent damage to corals.

Moyer (1982) recorded *Drupella frugal* as one of two species causing coral damage in Japan and the Philippines, and Fujioka and Yamato (1983) reported damage by *D. frugal* in the Ryukyu Islands. The taxonomy of this genus is difficult, and was recently discussed by Wilson (1992), who concluded that the species identified as *D. frugal* in the two studies is actually *D. rugose*. *Drupella rugose* was collected during the Montebellos survey, but only at stations 17 and 30, and there was no apparent damage to corals.

Isolated individuals of two additional corallivorous gastropods, *Coralliophila violacea* and *C. costularis*

were found during the survey. While they are both widespread species which occur throughout northern Western Australia, neither has ever been recorded as causing damage to coral populations.

Research during the 1980s showed that the fauna of offshore atolls (Rowley Shoals, Scott and Seringapatam Reefs and Ashmore Reef) differs considerably from that recorded along the continental coastline. Over 20% of the molluscs collected on surveys of these atolls were new records for Western Australia, and many species which are common offshore have been found only incidentally inshore (Wells, 1986). With the location of the Montebellos as the group of islands farthest offshore in the Pilbara region it was thought that the molluscan fauna might be intermediate between that typical of the continental coastline and that which occurs on the offshore atolls. However, this was not the case - almost all of the animals collected were characteristic of the continental coastline. There were three exceptions. *Conus miles* is abundant on the reefs of offshore atolls, but has been found as only 5 lots of specimens from continental shores. The species was recorded from a total of 6 stations in the Montebellos. The only previous record of *Semicassis rufa* in Western Australian waters is a single broken shell collected at Cartier Island in 1986. A single juvenile specimen was found at the Montebellos. *Maculotriron serriale* was found at a single station.

The Montebello Islands are an important area as the type locality of a number of mollusc species described by Preston (1914). Two species, *Rhagada montebelloensis* and *R. plicata*, are land snails. The remainder are marine: four gastropods were described as full species (*Natica ren*, *Stomatia sculpturata*, *Trochus montebelloensis*, and *Phasianella montebelloensis*) and three subspecies (*scabrosus*, *haynesi* and *turriiformis*) were described for *Turbo foliaceus*. Two bivalves (*Psammobia excolorata* and *Soletellina haynesi*) were among the species described. All of these are now recognised as synonyms of previously described species except *Turbo haynesi* and *Soletellina haynesi* which are currently considered to be valid species.

In summary, the collection of 633 species of molluscs during such a short survey indicates that the molluscan fauna of the Montebello Islands is unexpectedly diverse. Further collecting would no doubt disclose the presence of additional species, but these would largely be the less common forms or cryptic species not readily collected in large scale surveys. One key aspect of managing mollusc populations in the Montebellos is that a short term survey such as the Museum expedition does not provide information on the seasonal and long term variability of populations. Such data could only be obtained by instituting a long term monitoring programme of key species.

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Table 7 Numbers of mollusc species collected during surveys of the faunas of coral reefs on the north coast of Western Australia and adjacent parts of the Indo-Pacific Ocean.

Location	Collecting days	Mollusc species	Reference
Montebello Islands	19	633	This report
Togian-Banggai Islands	11	541	Wells, in press b
Calamian Group	16	651	Wells, 1998
Milne Bay	19	638	Wells, in press a
Cocos (Keeling) Islands	20	380 on survey; total known fauna of 610 species	Wells, 1994
Chagos Islands	Accumulated data	384	Sheppard, 1984
Christmas Island	12 plus accumulated data	430	Wells & Slack-Smith, 1988
Ashmore Reef	12	433	Wells, 1993
Cartier Island	7	381	Wells, 1993; Willan, 1993
Hibernia Reef	6	294	Willan, 1993
Scott/Seringapatam Reef	8	279	Wells & Slack-Smith, 1986
Rowley Shoals	7	260	Wells & Slack-Smith, 1986
Kimberleys			
1988	19	413	Wells, 1988
1991	19	317	Wells, 1992
1994	13	232	Wells & Bryce, 1995
Muiron Islands & Exmouth Gulf	12	655	Slack-Smith & Bryce, 1995
Bernier & Dorre Islands, Shark Bay	12	425	Slack-Smith & Bryce, 1995
Abrolhos Islands	Accumulated data	492	Wells & Bryce, 1997 .

Table 8 List of mollusc species collected at the Montebello Islands.
 N.B. This list is arranged systematically following the recently published *Mollusca: The Southern Synthesis* (Beesley *et al.*, 1998).

Species	Station Number
CLASS POLYPLACOPHORA	
ISCHNOCHITONIDAE	
<i>Ischnochiton</i> sp.	1,13
CRYPTOPLACIDAE	
<i>Cryptoplax</i> sp.	4B,W5
CHITONIDAE	
<i>Acanthopleura gemmata</i> Blainville, 1825	7,13,14b,W5,W7
<i>Acanthopleura spinosa</i> (Bruguère, 1792)	13,14b,W5
CLASS GASTROPODA	
PATELLIDAE	
<i>Cellana radiata</i> (Born, 1778)	5,7,14d,26
<i>Patella flexuosa</i> (Quoy & Gaimard, 1834)	3,6,14b,17,20,27,28a
ACMAEIDAE	
<i>Patelloida flammea</i> (Anderson, 1865)	12,14b,29
<i>Patelloida mimula</i> (Iredale, 1924)	W3,W9
<i>Patelloida profunda</i> (Crosse and Fischer, 1864)	10,12,29,32b
<i>Patelloida saccharina</i> (Linnaeus, 1758)	7,14b,14d,27,28b,32b,W1,W2,W5,W9
HALIOTIDAE	
<i>Haliotis asinina</i> Linnaeus, 1758	2,6,20,W4
<i>Haliotis ? crebrisculpta</i> Sowerby, 1833	2
<i>Haliotis ovina</i> (Gmelin, 1791)	2?
<i>Haliotis squamata</i> Reeve, 1846	2,3,10,13,18,19,23,28b,29,32b,36a,W1,W5
<i>Haliotis varia</i> Linnaeus, 1758	1,2,4a?,4b,14b,19,20,28b,29,32b,W3,W4,W9
FISSURELLIDAE	
<i>Diodora jukesii</i> (Reeve, 1849)	1,8,11,12,13,14b,14e,16,22,32b,37,W9
<i>Diodora ticaonica</i> (Reeve, 1850)	4a,5,8,27
? <i>Hemitoma</i> sp.	5,7,27,29,32b,33,W3,W9
<i>Macroschisma munita</i> (Iredale, 1940)	10,11,12,14d,14e,22
<i>Montfortula (Montfortista) panhi</i> (Quoy and Gaimard, 1834)	16,17,18,27,32b,33,36a
<i>Scutus granulatus</i> Blainville, 1819	1,4b,18,29,32b,
TURBINIDAE	
<i>Astraliium stellare</i> (Gmelin 1790)	1,7,14b,16,24,30,31,35
<i>Astraliium pileola</i> Reeve, 1842	14b,14d,16,28b,31,38,W9
<i>Liotia peroni</i> Kiener, 1839	14b,18,20,27,31,37,W5,W7,W9
<i>Liotia crassilabris</i>	27,36a
<i>Phasianella solida</i> (Born, 1778)	3,13,14b,14d,18,32b
<i>Phasianella variegata</i> Lamarck, 1822	W2
<i>Turbo (Marmarostoma) argyrostoma</i> Linnaeus 1758	1,2,3,4a,4b,20,27,29,W9
<i>Turbo cinereus</i> Born, 1778	7,14b,W3,W5,W7
<i>Turbo foliaceus</i> Philippi, 1847	W2,W5,W9
<i>Turbo haynesi</i> Preston, 1914	5,14a,18,36a,W6
<i>Turbo petholatus</i> (Linnaeus, 1758)	3?,9,10,13,27,33
<i>Turbo</i> sp.	4b,9,10,13,14,17, 21,27,31,37
TROCHIDAE	
<i>Angaria delphinus</i> (Linnaeus, 1758)	2,3,16,17,18,25,28,29,33,37,W5
<i>Astele</i> sp.	18
<i>Calliostoma arruensis</i> (Watson, 1880)	22,36a
" <i>Calliostoma</i> " <i>gilberti</i> Montrouzier, 1878	10,12,18,28a,28b,36a
<i>Calliostoma</i> sp.	1,6,8,12,22,28a,32b
<i>Cantharidus</i> sp.	7,13,14a,14b,14d,17,18,30,37
<i>Chrysostoma zeus</i> (Fischer, 1874)	1,2,4a,4b,10,15a,22b,28b,32b
<i>Clanculus atropurpureus</i> (Gould, 1849)	6,29,30,32b
<i>Clanculus festivus</i> Tapparone-Canefri	20,24,30,35
<i>Ethaliella pulchella</i> (A. Adams, 1850)	8,13,18
<i>Euchelus atratus</i> (Gmelin, 1791)	6,13,14b,15a,36a,W6

Table 8 (cont.)

Species	Station Number
<i>Euchelus rubrus</i> (A. Adams, 1851)	32a
<i>Euchelus instrictus</i> Gmelin, 1791	29,36a
<i>Euchelus lischkei</i> Pilsbry	2,14b
<i>Eucheulus</i> sp.	2
<i>Gena</i> sp.	6,9,17,29,32a(?)
<i>Gibbula marmorea</i> Pease, 1861	16,20
<i>Hybochelus</i> sp. aff. <i>H. cancellata</i> Krauss, 1845	15a,W9
<i>Hybochelus</i> sp. aff. <i>H. mysticus</i> Pilsbry 1889	19,36a
<i>Isanda</i> sp.	14b,14c,14e,32b
<i>Monodonta labio</i> (Linnaeus, 1758)	W7,W9
<i>Monilea</i> ? <i>lentiginosa</i> A. Adams, 1851	28a,32b
<i>Prothalotia</i> cf. <i>strigata</i> Adams, 1853	W3,W7
<i>Pseudostomatella elegans</i> (Grey, 1847)	14d,32b
<i>Pseudostomatella</i> ? <i>pallida</i> Tapparone-Canefri, 1877	5,8,10,13,14a,14d,15b,18,22,32b
<i>Pseudostomatella</i> (<i>Stomatolina</i>) <i>rufescens</i> Gray, 1847	6,10,13,14d,18,25,29, 32b,36a,43
<i>Stomatella</i> sp.	4b,W7
<i>Stomatia phymotis</i> (Helbling, 1779)	13,14a,15b,16,18,36a,W2
<i>Talopena vernicosa</i> (Gould, 1861)	8,11,12,16,17,36a
<i>Tectus pyramis</i> Born, 1778	1,2,3,4a,4b,6,14b,17,25,27,28,29,31,35,37,W2,W5,W6,W7,W9
<i>Tectus</i> (<i>Rochia</i>) <i>schleuteri</i>	16,33
<i>Trochus hanleyanus</i> Reeve, 1843	11,14b,16,28b,32b,37 W4,W6,W7,W9
<i>Trochus maculatus</i> Linnaeus, 1758	1,2,4b,19,20
NERITIDAE	
<i>Nerita albicilla</i> Linnaeus, 1758	13,14b,32b,W1,W2,W4,W5
<i>Nerita plicata</i> Linnaeus, 1758	5,14b,W3,W5,W7
<i>Nerita squamulata</i> (Le Guillou, 1841)	7,13,14b,W3,W7,W9
<i>Nerita undata</i> Linnaeus, 1758	5,7,13,14b,28,32b,W1,W2,W3,W5,W7
CERITHIIDAE	
<i>Cerithium atomarginatum</i> Dautzenberg and Bouge, 1933	W5
<i>Cerithium balteatum</i> Philippi, 1848	2,4a,14b,17,19,29,30,35
<i>Cerithium citrinum</i> Sowerby, 1855	27
<i>Cerithium coralium</i> Kiener, 1843	13,W8,W9
<i>Cerithium echinatum</i> Lamarck, 1822	1,2,3,4a,6,7,14b,19,24,25,27,28,30,35,W4,W5,W9
<i>Cerithium nigrobalteatum</i> E. A. Smith, 1884	W5
<i>Cerithium novaehollandiae</i> A. Adams, 1855	1,2,4a,6,7,14b,17,24,31,32a,33,35,36a,W2,W5
<i>Cerithium salebrosum</i> Sowerby, 1855	W6
<i>Cerithium tenellum</i> Sowerby, 1855	6
<i>Cerithium trailli</i> (Sowerby, 1855)	4a,17,19,33
<i>Cerithium zonatum</i> (Wood, 1828)	14b,17
<i>Pseudovertagus aluco</i> (Linnaeus, 1758)	13,14a,17,31,33,W5,W6,W9
<i>Rhinoclavis articulatus</i> (Adams and Reeve, 1850)	12,14a,17,18,29,36,W6
<i>Rhinoclavis bretteinghami</i> Cernohorsky, 1974	1,2,3,6,7,14a,17,25,27,28,35,W1,W2,W5
<i>Rhinoclavis fasciatus</i> (Bruguère, 1792)	6,17,24,30,W2,W6
<i>Rhinoclavis kochi</i> (Philippi, 1848)	8,12,14b,22,28,32b,36a
<i>Rhinoclavis sordidula</i> (Gould, 1849)	28
<i>Rhinoclavis vertagus</i> (Linnaeus, 1767)	7,13,14a,W6,W9
<i>Clypeomorus batillariaeformis</i> Habe and Kosuge, 1966	13,14a,14b,W9
<i>Clypeomorus bifasciata</i> (Sowerby, 1855)	13,W2,W3,W7,W9
TURRITELLIDAE	
<i>Turritella</i> sp.	8,21,32b
PLANAXIDAE	
<i>Planaxis sulcatus</i> (Born, 1780)	5,7,14b,28,W1,W3,W9
POTAMIDIDAE	
<i>Cerithidea cingulata</i> (Gmelin, 1791)	13,14b,W8,W9
<i>Cerithidea reidi</i> Houbbrick, 1986	13,14b,W8,W9
<i>Terebralia palustris</i> (Linnaeus, 1767)	13,14b,W8
<i>Terebralia semistriata</i> (Mörch, 1852)	13,14b,W8
MODULIDAE	
<i>Modulus tectum</i> (Gmelin, 1791)	1,2,4a,4b,6,7,14b, 24,27,31,32b,33,35,W4,W5

Table 8 (cont.)

Species	Station Number
LITTORINIDAE	
<i>Littoraria articulata</i> (Philippi, 1846)	W8
<i>Littoraria cingulata</i> (Philippi, 1846)	13
<i>Littoraria filosa</i> (Sowerby, 1832)	13,W8
<i>Littoraria scabra</i> (Linnaeus, 1758)	13,14b,W8,W9
<i>Littoraria undulata</i> (Gray, 1839)	5,14b
<i>Nodilittorina australis</i> (Gray, 1826)	W5
<i>Nodilittorina pyramidalis</i> (Quoy and Gaimard, 1833)	5,13,14b,28,W3,W7,W9
RISSOIDAE	
<i>Rissoina</i> sp.	23,30 10
STROMBIDAE	
<i>Lambis chiragra</i> (Linnaeus, 1758)	3,4a,4b,27
<i>Lambis lambis</i> (Linnaeus, 1758)	W2
<i>Rimella cancellata</i> (Lamarck, 1816)	32b
<i>Strombus epidromis</i> Linnaeus, 1758	17
<i>Strombus mutabilis</i> Swainson, 1821	4b,5,6,7,9,10,19,20,24,25,28,32b,33,35,W1,W2,W4,W5,W9
<i>Strombus urceus</i> Linnaeus, 1758	8,14b,17,28,32b,33,36a,W1,W5
<i>Strombus vittatus</i> Linnaeus, 1758	22,36a
<i>Strombus vomer</i> (Röding, 1798)	5,W1,W5
HIPPONICIDAE	
<i>Antisabia foliacea</i> (Quoy and Gaimard, 1835)	1
<i>Sabia conicus</i> (Schumacher, 1817)	1,2,10,24,25,28
VANIKORIDAE	
<i>Vanikoro</i> sp.	32b
CALYPTRAEIDAE	
<i>Cheilea equestris</i> (Linnaeus, 1758)	5,6,7,9,17,18,32a
VERMETIDAE	
<i>Serpulorbis colubrinus</i> (Röding, 1798)	14a
CYPRAEIDAE	
<i>Cypraea annulus</i> Linnaeus, 1758	13,14b
<i>Cypraea asellus</i> Linnaeus, 1758	1,4b,17,35,19,24,W1
<i>Cypraea caputserpentis</i> Linnaeus, 1758	1,4b,5,6,14b,20,25,28,31,W2,W3,W5
<i>Cypraea carneola</i> Linnaeus, 1758	3,30,W1,W2
<i>Cypraea caurica</i> Linnaeus, 1758	W2,1,29,33
<i>Cypraea clandestina</i> Linnaeus, 1767	1,10,14b,29,33,W9
<i>Cypraea cribraria</i> Linnaeus, 1758	3,6,17
<i>Cypraea cylindrica</i> Born, 1778	1,2,4b,17,19,24,30,31,33,35,W1,W2,W9
<i>Cypraea eglantina</i> Duclos, 1833	1,2,4a,6,20,25,W2
<i>Cypraea erosa</i> Linnaeus, 1758	1,2,4a,4b,24,30,31
<i>Cypraea erroneus</i> Linnaeus, 1758	2
<i>Cypraea gracilis</i> Gaskoin, 1849	1,9,14b,27,28,30,35,W1,W9
<i>Cypraea hammondae</i> Iredale, 1939	9
<i>Cypraea helvola</i> Linnaeus, 1758	1,2,3,4a,5,10,19,20,23,24,4b,25,28,30,32,33b,35,W1,W2
<i>Cypraea hirundo</i> Linnaeus, 1758	4a,20,46
<i>Cypraea isabella</i> Linnaeus, 1758	1,3,23,46
<i>Cypraea kieneri</i> Hidalgo, 1906	35
<i>Cypraea leviathan</i> Schilder and Schilder, 1937	7
<i>Cypraea limacina</i> Lamarck, 1810	1,2,3,10,19,35,46
<i>Cypraea lynx</i> Linnaeus, 1758	6,20,23,W1,W2,W5,W9
<i>Cypraea moneta</i> Linnaeus, 1758	2,4a,13,14a,14b,20,31,W1,W5,W6,W9
<i>Cypraea nucleus</i> Linnaeus, 1758	20
<i>Cypraea pallidula</i> Gaskoin, 1849	35
<i>Cypraea staphylaea</i> Linnaeus, 1758	29
<i>Cypraea stolidia</i> Linnaeus, 1758	27
<i>Cypraea subviridis</i> Reeve, 1835	18,W1
<i>Cypraea tigris</i> Linnaeus, 1758	7
<i>Cypraea vitellus</i> Linnaeus, 1758	23,W2
OVULIDAE	
<i>Ovula ovum</i> (Linnaeus, 1758)	24,28

Table 8 (cont.)

Species	Station Number
TRIVIIDAE	
<i>Trivia oryza</i> (Lamarck, 1810)	2,12,35
VELUTINIDAE	
<i>Chelynotus tonganus</i> (Quoy & Gaimard, 1832)	4b
NATICIDAE	
<i>Eunaticina linneana</i> (Récluz, 1844)	36a
<i>Natica alapapilionaceus</i> (Röding, 1798)	2,36a
<i>Natica euzona</i> (Récluz, 1844)	10,35,36a
<i>Natica fasciata</i> (Röding, 1798)	8,13,14a,14b,22,33
<i>Natica gualtierana</i> (Récluz, 1844)	13,14a,14b,32b,36a,W5,W6
<i>Natica picta</i> Récluz, 1844	8,18,28,33,35,46,W6
<i>Natica robillardi</i> Sowerby, 1843	14a
<i>Natica seychellium</i> (Watson, 1885)	14b,17,32b,33
<i>Natica vitellus</i> (Linnaeus, 1758)	14b
<i>Polinices melanostomus</i> (Gmelin, 1791)	8,29,33
<i>Polinices powisiana</i> (Récluz, 1844)	W2
<i>Polinices simiae</i> (Deshayes, 1838)	2,32b,W2
<i>Sinum zonale</i> (Quoy and Gaimard, 1832)	14b
BURSIDAE	
<i>Bursa granularis</i> (Röding, 1798)	1,2,4a,6,10,14b,35,W2,W4,W5
CASSIDAE	
<i>Cassis rufa</i> (Linnaeus, 1758)	25
FICIDAE	
<i>Ficus eospila</i> (Péron, 1807)	18,28,W6
RANELLIDAE	
<i>Cymatium labsiosum</i> (Wood, 1828)	10
<i>Cymatium moritinctum</i> (Reeve, 1844)	10,22,W4,W5,W6
<i>Cymatium pileare</i> (Linnaeus, 1758)	14b
<i>Gelagna succincta</i> (Linnaeus, 1771)	22
<i>Gutturium muricinum</i> (Gmelin, 1791)	13,14a,14b,19,W9
<i>Gyrineum pusillum</i> (Broderip, 1833)	23
<i>Septa exarata</i> (Reeve, 1844)	14b
<i>Septa gemmata</i> (Reeve, 1844)	14b,W5,W6
<i>Septa pileare</i> (Linnaeus, 1758)	24,30,W9
<i>Septa vespacea</i> (Lamarck, 1822)	8,10,14b,22,28,32b,33,36a,W5,W6,W9
<i>Turritriton labiosum</i> (Wood, 1828)	22
TONNIDAE	
<i>Malea pomum</i> (Linnaeus, 1758)	W2
<i>Tonna chinensis</i> (Dillwyn, 1817)	10
<i>Tonna perdix</i> (Linnaeus, 1758)	1,2
<i>Tonna variegata</i> (Lamarck, 1822)	32b
TRIPHORIDAE	
<i>Triphora</i> sp	
EPITONIIDAE	
<i>Epitonium imperialis</i> (Sowerby, 1844)	14b
<i>Epitonium</i> sp.	14b
EULIMIDAE	
<i>Eulimid</i> sp.	14b,28,29,32b,36a
MURICIDAE	
<i>Aspella</i> sp.	W4
<i>Chicoreus banksii</i> (Sowerby, 1841)	14a
<i>Chicoreus microphyllus</i> (Lamarck, 1816)	9
<i>Haustellum multiplicatus</i> (Sowerby, 1895)	12
<i>Hexaplex stainforthi</i> (Reeve, 1842)	13,14b,W6,W7
<i>Homalocantha secunda</i> (Lamarck, 1822)	17
<i>Murex acanthostephes</i> Watson, 1883	12,13,14a,14b,32b,W9
<i>Murex pecten soelae</i> Ponder and Vokes, 1988	32a

Table 8 (cont.)

Species	Station Number
<i>Pterochelus acanthopterus</i> (Lamarck, 1816)	14b,18,29,W9
<i>Pterochelus akation</i> Vokes, 1993	13
<i>Cronia avellana</i> (Reeve, 1846)	1,2,3,4a,4b,5,6,7,13,14b,17,19,20,23,24,25,28,30,32a,33,35,W2, W4,W5,W9
<i>Cronia ochrostoma</i> (Blainville, 1832)	23
<i>Drupa cf. fusconigra</i> (Dunker, 1846)	13,14b,W7,W9
<i>Drupa cf. marginalba</i> (Blainville, 1832)	W5
<i>Drupa morum</i> (Röding, 1798)	14b,26,28,W5
<i>Drupa ricinus</i> (Linnaeus, 1758)	4a,14b,26,28
<i>Drupella cornus</i> (Röding, 1798)	1,2,6,7,19,20,24
<i>Drupella rugosa</i> (Born, 1778)	17,30
<i>Maculotrion serriale</i> (Deshayes, 1834)	14b
<i>Maculotrion cf. sculptile</i> (Reeve, 1844)	14b
<i>Mancinella mancinella</i> (Linnaeus, 1758)	14b,26,28,W5
<i>Morula biconica</i> Blainville, 1832	1
<i>Morula granulata</i> (Duclos, 1832)	14b,W4
<i>Morula margaritcola</i> (Broderip, 1832)	14b,19,28,W4,W5,W9
<i>Morula spinosa</i> (H. and A. Adams, 1835)	1,2,6,7,14b,20,24,27,30,31,35,W9
<i>Morula uva</i> (Röding, 1798)	6,7,14b,20,24,28,W5,W9
<i>Nassa sarta</i> (Bruguière, 1789)	2,4a,4b,14b,20,W4,W5,W9
<i>Pinaxia versicolor</i> (Gray, 1839)	10,23
<i>Thais aculeata</i> (Deshayes, 1844)	5,7,14b,26,28,W4,W5,W9
<i>Thais echinata</i> (Blainville, 1832)	1,2,8,25,28,30,35
<i>Thais intermedia</i> (Kiener, 1836)	20
<i>Thais kieneri</i> (Deshayes, 1844)	14b,24
<i>Thais orbita</i> (Gmelin, 1791)	14b
<i>Vexilla vexillum</i> (Gmelin, 1791)	9
<i>Coralliophila costularis</i> (Lamarck, 1816)	1,2,25
<i>Coralliophila pyriformis</i> Kira, 1959	1,6
<i>Coralliophila violacea</i> (Kiener, 1836)	1,19,23
TURBINELLIDAE	
<i>Vasum turbinellum</i> (Linnaeus, 1758)	3
BUCCINIDAE	
<i>Cantharus erythrostoma</i> (Reeve, 1846)	13,14a,14b,18,24,W5,W6,W9
<i>Cantharus fumosus</i> (Dilwyn, 1817)	4b,13,14b,20,25,W1,W9
<i>Cantharus iostomus</i> (Gray, 1834)	19,20
<i>Cantharus undosus</i> (Linnaeus, 1758)	14b,29,W5
<i>Cominella acutinodosa</i> (Reeve, 1846)	7,13,14a,14b,32b,W9
<i>Pisania ignea</i> (Gmelin, 1791)	27,32b
<i>Pisania gracilis</i> (Reeve, 1846)	4a
<i>Phos cf. textilis</i> A. Adams, 1851	8,18,22
COLUMBELLIDAE	
<i>Mitrella bella</i> (Reeve, 1859)	9,10
<i>Mitrella puella</i> (Sowerby, 1844)	8,12,22,28,32b,36a,W9
<i>Pyrene essingtonensis</i> (Reeve, 1859)	14b
<i>Pyrene flava</i> (Bruguière, 1789)	14b,W6,W9
<i>Pyrene punctata</i> (Bruguière, 1789)	2,27,W5
<i>Pyrene scripta</i> (Lamarck, 1822)	4a,10,14b,19,36a,W2,W4
<i>Pyrene testudinaria</i> (Link, 1807)	10,14b,20,25,W2,W5
<i>Pyrene turturina</i> (Lamarck, 1822)	1,2,3,4b,19,20
NASSARIIDAE	
<i>Cyllene sulcata</i> Sowerby, 1859	8,28,36a
<i>Nassarius albescens</i> (Dunker, 1846)	6,W6
<i>Nassarius albina</i> (Thiele, 1930)	14a,14b,20,28,32b
<i>Nassarius clarus</i> (Marrat, 1877)	13,14a,14b,W9
<i>Nassarius concinnus</i> (Powys, 1835)	14b
<i>Nassarius gaudiosus</i> (Hinds, 1844)	18
<i>Nassarius glans</i> (Linnaeus, 1758)	1,8,12,14a,14b,17,18,22,29,30,W6,W9
<i>Nassarius pauperus</i> (Gould, 1850)	4a,23
<i>Nassarius reeveanus</i> (Dunker, 1847)	14b,W5
<i>Nassarius sufflatus</i> (Gould, 1860)	14b,29,W5

Table 8 (cont.)

Species	Station Number
MELONGENIDAE	
<i>Syrinx aruanus</i> (Linnaeus, 1758)	4a,14b,22,24
FASCIOLARIIDAE	
<i>Latirus paetelianus</i> (Kobelt, 1874)	14b,17
<i>Latirus polygonus</i> (Gmelin, 1791)	14b,20
<i>Latirus turritus</i> (Gmelin, 1790)	23
<i>Latirus walkeri</i> Melvill, 1893	13,14b
<i>Peristernia incarnata</i> (Kiener, 1840)	1,2,3,4a,4b,6,7,12,13,14b,19,20,22,27,,28,30,35,W5,W9
VOLUTIDAE	
<i>Amoria damoni</i> Gray, 1864	8,14b,22
<i>Amoria</i> cf. <i>praetexta</i> (Reeve, 1849)	18
<i>Amoria grayi</i> Ludbrook, 1953	W1
<i>Aulicina nivosa</i> (Lamarck, 1804)	3,12,14a,18,19,22,28,32a,33,W1,W6,W7,W9
<i>Melo amphora</i> (Solander, 1786)	1,2,4,5,7,14b,28,31,32a,32b,33,W1,W2
OLIVIDAE	
<i>Amalda elongata</i> Gray, 1847	8,12
<i>Amalda muscae</i> (Pilsbry, 1926)	W9
<i>Amalda rosea</i> Macpherson, 1951	32b
<i>Ancillista cingulata</i> (Sowerby, 1830)	17,28,36a
<i>Oliva australis</i> Duclos, 1835	32b
<i>Oliva caerulea</i> (Röding, 1798)	10
<i>Oliva lignaria</i> Marrat, 1868	W2
MARGINELLIDAE	
<i>Marginella</i> sp.	13,14a,W9
MITRIDAE	
<i>Cancilla incarnata</i> (Reeve, 1845)	32a
<i>Mitra fraga</i> Quoy and Gaimard, 1833	1,20
<i>Mitra litterata</i> Lamarck, 1811	14b
<i>Mitra luctuosa</i> Adams, 1853	W4
<i>Mitra retusa</i> Lamarck, 1811	29
<i>Mitra scutulata</i> (Gmelin, 1791)	14b,29,32b,W2,W5
<i>Mitra ticaonica</i> Reeve, 1844	20,29
<i>Pterygia scabricula</i> (Linnaeus, 1758)	29
<i>Scabricola lacunosa</i> Reeve, 1844	14b
COSTELLARIIDAE	
<i>Vexillum amanda</i> (Reeve, 1845)	32b,36a
<i>Vexillum leucodesmium</i> (Reeve, 1845)	14b
<i>Vexillum obeliscus</i> (Reeve, 1844)	14b
<i>Vexillum microzonias</i> (Lamarck, 1811)	1
<i>Vexillum pacificum</i> (Reeve, 1845)	9,10
<i>Vexillum rugosum</i> (Gmelin, 1791)	13
<i>Vexillum unifasciatum</i> (Wood, 1828)	2
<i>Vexillum vulpecula</i> (Linnaeus, 1758)	2,10,13,14a,14b,17,28,32a,32b,35,36a,W1,W9
<i>Vexillum zebuense</i> (Reeve, 1844)	1,8,14b,32b,33
<i>Vexillum zelotypum</i> (Reeve, 1845)	14b,36a
CANCELLARIIDAE	
<i>Cancellaria melanostomus westralis</i> Garrard, 1975	8,13
<i>Cancellaria</i> sp.	8
TURRIDAE	
<i>Clavus</i> cf. <i>unizonalis</i> (Lamarck, 1822)	6,14b
<i>Daphnella</i> sp.	19
<i>Eucithara coronata</i> (Hinds, 1843)	28,W9
<i>Eucithara cylindrica</i> (Reeve, 1846)	28
<i>Eucithara</i> sp.	10,12
<i>Inquisitor crenularis</i> (Lamarck, 1816)	22,32b
<i>Inquisitor</i> sp.	1,36a
<i>Inquisitor</i> sp.	2,32b
<i>Lophiotoma crispa</i> (Lamarck, 1816)	18

Table 8 (cont.)

Species	Station Number
<i>Turricula nelliae granobalteatus</i> (Hedley, 1922)	8,12,18,28,32b
<i>Xenoturris cingulifera</i> (Lamarck, 1822)	23
TEREBRIDAE	
<i>Duplicaria australis</i> (E. A. Smith, 1873)	14b,18,36a
<i>Duplicaria bernardi</i> (Deshayes, 1857)	32b
<i>Duplicaria duplicata</i> (Linnaeus, 1758)	14b,22,28,36a
<i>Hastula rufopunctata</i> (E. A. Smith, 1877)	14b,28,32b,36a
<i>Terebra affinis</i> Gray, 1834	30
<i>Terebra amanda</i> Hinds, 1844	27
<i>Terebra areolata</i> (Link, 1807)	W1,W2
<i>Terebra flavofasciata</i> Pilsbry, 1921	23
<i>Terebra laevigata</i> Gray, 1834	6,14b
<i>Terebra marrowae</i> Bratcher and Cernohorsky, 1982	2,6,14a,14b,17,19,22,28,32b,36a,38
CONIDAE	
<i>Conus arenatus</i> Hwass in Bruguière, 1792	1
<i>Conus capitaneus</i> Linnaeus, 1758	W2
<i>Conus ceylanensis</i> Hwass in Bruguière, 1792	1,4a,4b,6,20,25,27,28,35,W1
<i>Conus chaldeus</i> (Röding, 1798)	14b
<i>Conus coronatus</i> Gmelin, 1791	14b
<i>Conus dorreensis</i> Peron, 1807	4b,10,14b,28,W4,W5
<i>Conus eburneus</i> Hwass in Bruguière, 1792	W2
<i>Conus ebraeus</i> Linnaeus, 1758	14b,28
<i>Conus frigidus</i> Reeve, 1848	14b,46
<i>Conus glans</i> Hwass in Bruguière, 1792	1,20,27,35
<i>Conus lividus</i> Hwass in Bruguière, 1792	4a,9,10,20,25,27,W5
<i>Conus macarae</i> Bernardi, 1857	14b,33
<i>Conus miles</i> Linnaeus, 1758	2,3,4a,19,20,25,27
<i>Conus militaris</i> Hwass in Bruguière, 1792	19
<i>Conus novaehollandiae</i> A. Adams, 1853	13,W5,W9
<i>Conus rattus</i> Hwass in Bruguière, 1792	4a,10,20,25
<i>Conus reductaspiralis</i> Walls, 1979	17
<i>Conus spectrum</i> Linnaeus, 1758	W2
<i>Conus sponsalis</i> Hwass in Bruguière, 1792	W5
<i>Conus striatus</i> Linnaeus, 1758	27
<i>Conus terebra</i> Born, 1798	25
<i>Conus textile</i> Linnaeus, 1758	3
<i>Conus vexillum</i> Gmelin, 1792	9,23,27,46
<i>Conus victoriae</i> Reeve, 1843	14b,17,W1,W2,W5,W9
PYRAMIDELLIDAE	
<i>Pyramidella acus</i> (Gmelin, 1791)	2,8,12,18,22,28,36A,W2
<i>Pyramidella sulcata</i> A. Adams, 1854	22,28
<i>Pyramidella terebellum</i> (Müller, 1774)	36a
<i>Otopleura auriscati</i> (Holten, 1802)	14a,W9
ACTEONIDAE	
<i>Pupa sulcata</i> (Gmelin, 1791)	8,14b,18,19,28,32b,36a
HYDATINIDAE	
<i>Hydatina physis</i> (Linnaeus, 1758)	6,33,36
PHILINIDAE	
<i>Philine</i> sp.	32b,38
AGLAJIDAE	
<i>Chelidonura amoena</i> Bergh, 1905	1,7,33
<i>Aglaja</i> sp. 1	14a
<i>Aglaja</i> sp. 2	14b,32a,32b
<i>Aglajid</i> sp.	32b
<i>Philinopsis gardneri</i> (Eliot, 1903)	14b
HAMINOEIDAE	
<i>Atys cylindricus</i> (Helbling, 1779)	12,14a,14b,23,28,32b
<i>Atys naucum</i> (Linnaeus, 1758)	28
<i>Cylichna arachis</i> (Quoy and Gaimard, 1833)	12,18,28,32b,W9

Table 8 (cont.)

Species	Station Number
BULLIDAE	
<i>Bulla ampulla</i> Linnaeus, 1758	6,8,13,19,28,32b,36,W2,W9
<i>Bulla vernicosa</i> Gould, 1859	36a
VOLVATELLIDAE	
<i>Volvatella</i> sp.	5
ELYSIIDAE	
<i>Elysia ornata</i> Swainson, 1840	29
<i>Elysia</i> sp.	32b
<i>Thurdilla</i> sp.	1,6,7,9,19
AKERIDAE	
<i>Akera soluta</i> (Gmelin, 1791)	14a,28
APLYSIIDAE	
<i>Aplysia parvula</i> Guilding in Mörch, 1863	19,28
<i>Aplysia reticulata</i> Eales, 1960	14b,W6,W9
<i>Bursatella</i> sp.	32b,W6
<i>Dolabella auricularia</i> (Lightfoot, 1786)	32b,W9
PLEUROBRANCHIDAE	
<i>Berthellina citrina</i> (Rüppell and Leuckart, 1828)	4a,11
GONIODORIDIDAE	
<i>Goniodoridid</i> sp.	9
POLYCERIDAE	
<i>Nembrotha cf. lineolata</i> Bergh, 1895	7,9,10,33
<i>Nembrotha rutilans</i> Pruvot-Fol, 1931	27,33,35
<i>Nembrotha kubyarana</i> Bergh, 1877	31
<i>Nembrotha cf. nigerrima</i> Bergh, 1877	33
<i>Tambja affinis</i> (Eliot, 1904)	7,10,27,28,29,33
GYMNODORIDIDAE	
<i>Gymnodoris okinawae</i> Baba, 1936	2,6
<i>Gymnodoris</i> sp.	2,6,7,14b,29
cf. <i>Gymnodoris</i> sp.	26
AEGIRIDAE	
<i>Notodoris gardineri</i> Eliot, 1906	26
HEXABRANCHIDAE	
<i>Hexabranchus sanguineus</i> (Rüppell & Leuckart, 1828)	13,14B,W3
DORIDIDAE	
<i>Aphelodoris</i> sp.	1,2,6,17,24,29,32a,33,35
<i>Asteronotus caespitosus</i> (Hasselt, 1824)	13,20,23,28
<i>Discodoris fragilis</i> (Alder and Hancock, 1864)	6,20
<i>Hoplodoris</i> sp.	4a
<i>Halgerda tessellata</i> (Bergh, 1880)	10,20,35
<i>Halgerda punctata</i> Farran, 1902	35
<i>Platydoris scabra</i> (Cuvier, 1804)	6,14b,20
<i>Platydoris formosa</i> (Alder and Hancock, 1864)	2
<i>Platydoris</i> sp.	14b
CHROMODORIDIDAE	
<i>Ceratosoma trilobatum</i> (Gray, 1827)	33
<i>Chromodoris bullocki</i> Collingwood, 1857	1,27,30
<i>Chromodoris cf. coi</i> Risbec, 1950	2,30,31
<i>Chromodoris elisabethina</i> Bergh, 1877	3,4a,4b,24,27,35
<i>Chromodoris cf. festiva</i> Angas, 1864	14b
<i>Chromodoris cf. tinctoria</i> (Rueppel and Leuckart, 1828)	32a
<i>Glossodoris atromarginata</i> (Cuvier, 1804)	6
<i>Risbecia tryoni</i> (Garrett, 1873)	19
DENDRODORIDIDAE	
<i>Dendrodoris rubra</i>	14b

Table 8 (cont.)

Species	Station Number
PHYLLIDIIDAE	
<i>Phyllidia coelistis</i> Bergh, 1905	1,3,4a,9,35
<i>Phyllidia</i> cf. <i>pustulosa</i> Cuvier, 1804	2,3,4a,6,7,9,20,24,30,31,35
<i>Phyllidia</i> cf. <i>ocellata</i> Cuvier, 1804	4a,9,23,35
<i>Phyllidia</i> cf. <i>striata</i> Bergh, 1889	9,35
<i>Phyllidia</i> cf. <i>varicosa</i> Lamarck, 1801	17
<i>Phyllidia</i> sp.	9
<i>Phyllidia</i> sp. (yellow front)	29
SCYLLAEIDAE	
<i>Scyllaea pelagica</i> Linnaeus, 1758	28
ARMINIDAE	
<i>Armina</i> sp. 1	32b
<i>Armina</i> sp. 2 (purple)	33
GLAUCIDAE	
<i>Moridilla brocki</i> (Bergh, 1888)	7,32a,33
<i>Pteraeolidia ianthina</i> (Angas, 1864)	27,32a,32b,33
ONCHIDIIDAE	
<i>Onchidium</i> sp.	13,14a,14b,W9
SIPHONARIIDAE	
<i>Siphonaria</i> sp. ? <i>kurracheensis</i> Reeve, 1856	5,7,14d,14e,28a,29
<i>Siphonaria</i> sp. ? <i>zelandica</i> Quoy and Gaimard, 1833	14d,36b
ELLOBIIDAE	
<i>Cassidula angulifera</i> (Petit de la Saussaye, 1841)	13,W8
CLASS BIVALVIA	
MYTILIDAE	
<i>Botula silicula</i> Lamarck, 1819	16,14a
<i>Brachidontes ustulatus</i> (Lamarck, 1819)	5,7,13,13a,14a,14b,14d,14e,21,29,37
<i>Lioberus pulvillus</i> (Iredale, 1939)	8,12,14b,14d,15,17,,18,28a,36a
<i>Lithophaga</i> ? <i>nasuta</i> (Philippi, 1846)	1,10,14a,16,17,22,24,26,28,29,33
<i>Lithophaga teres</i> (Philippi, 1846)	14a,16,22,24,27,29,35
<i>Modiolus philippinarum</i> (Hanley, 1843)	4b,8,9,10,12,13,13a,14a,14b,14d,14e,15a,15b,17,18,21,22,27,29,37,W7
<i>Musculus</i> sp.	3,4a,4b,5,9
<i>Ryenella cumingiana</i> (Dunker, 1857)	7,14a,14d,15a,15b,36a
<i>Septifer bilocularis</i> (Linnaeus, 1758)	1,2,3,4a,4b,5,6, 7,10,13a,14b,14d,16,17,20,21,22,24,25,26,27,29,32b,37,W2,W9
<i>Stavelia horrida</i> Dunker, 1857	3,14a,14b,14e,16
ARCIDAE	
<i>Anadara antiquata</i> (Linnaeus, 1758)	19,W1
<i>Arca ventricosa</i> Lamarck, 1819	1,2,4b,6,12,13,14a,15,15a,17,19,24,29,31,32b,33,35,W1,W2
<i>Barbatia amygdalumtostum</i> (Röding, 1798)	1,2,3,4a,5,6,7,12,17,19,20,29,32a,W1,W2
<i>Barbatia helblingii</i> (Bruguère, 1789)	22,35
<i>Barbatia lacerata</i> (Linnaeus, 1758)	6,17,27,33
<i>Barbatia plicata</i> (Dillwyn, 1817)	2,32b,W6
<i>Barbatia</i> cf. <i>pistachia</i> Lamarck, 1819	18,20,31,36a,W1
<i>Barbatia tenella</i> (Reeve, 1844)	3,4b,7,19,27
<i>Barbatia obliquata</i> (Wood, 1828)	14b
<i>Barbatia</i> sp.	20
NOETIIDAE	
<i>Arcopsis afra</i> (Gmelin, 1791)	5,15b,19
GLYCYMERIDIDAE	
<i>Glycymeris crebriliratus</i> (Sowerby, 1889)	36a
<i>Glycymeris dampierense</i> Matsukuma, 1984	8,9,10,12,13a,14a,15a,16,17,18,21,28a,29,30,32a,32b,33,36a,W1,W2
<i>Glycymeris</i> (<i>Veletuceta</i>) <i>hedleyi</i> (Lamy, 1912)	8,12,14a,15,15a,15b,16,17,18,36a
<i>Tucetona auriflua</i> (Reeve, 1843)	12,35
<i>Tucetona odhneri</i> Iredale, 1939	8,12,14b,15b,16,18,30,32b,33,36a,36b

Table 8 (cont.)

Species	Station Number
PTERIIDAE	
<i>Electroma ?ovata</i> (Quoy & Gaimard, 1834)	1,4b,6,7,17,19,33
<i>Electroma zebra</i> (Reeve, 1857)	17
<i>Pinctada albina</i> (Lamarck, 1819)	4b,6,14b,15a,17, 25,27,29,31,32b,33,36a,37
<i>Pinctada margaritifera</i> (Linnaeus, 1758)	4a,4b,6,7,9,19,24,27,31,32b
<i>Pinctada maxima</i> (Jamieson, 1901)	2,6,7,27,32a
<i>Pinctada lata</i> (Gray, 1845)	27,33,35,36b
<i>Pteria penguin</i> (Röding, 1798)	7,27,W1
<i>Pteria</i> sp.	36b,33
MALLEIDAE	
<i>Malleus</i> sp.	6, 14b
<i>Vulsella vulsella</i> (Linnaeus, 1758)	11,12,14a,16,18,33
ISOGNOMONIDAE	
<i>Crenatula ? viridis</i> (Lamarck, 1819)	7,9,11,14b,15,15b,16,17 ,16,17,32b,36a,36b
<i>Isognomon isognomum</i> (Linnaeus, 1758)	1,2,4b,6,7,9,13a,14b,14e,17,19,26,27,,29,31,33,35,37,W7,W9
<i>Isognomon</i> sp.	3,5,7,9,11,13,13a,14b,14d,24,25,35,W3
PINNIDAE	
<i>Atrina pectinata</i> (Linnaeus, 1767)	1,4a,6,8,19
<i>Atrina vexillum</i> (Born, 1778)	1,2,24,35
<i>Pinna bicolor</i> Gmelin, 1791	5,8,9,12,13,13a,14b,14c,15b,18,19,22,32b,W9
<i>Pinna deltodes</i> Menke, 1843	3,6,7,9,17
<i>Streptopinna saccata</i> (Linnaeus, 1758)	3
LIMIDAE	
<i>Ctenoides annulata</i> (Lamarck, 1819)	2,6,7,12,17,19,24,27,29,31,33,35
<i>Lima lima</i> (Linnaeus, 1758)	1,2,3,4b,6,7,9,11,13,17,27,28a,29,31,32a,35
<i>Limaria ?basilanicca</i> (A. Adams & Reeve, 1850)	1,2,6,8,17,19,33,37
<i>Limaria fragilis</i> (Gmelin, 1791)	2,6,7,16,19,20,21,22,24,27
<i>Limatula ?japonica</i> Fleming, 1978	2,7,8,12,15b,16,17,18,21,31,33,36a,37
GRYPHAEIDAE	
<i>Hytotissa hyotis</i> (Linnaeus, 1758)	1,2,4a,6,7,17,19,24,27,31,35
<i>Hytotissa</i> sp.	1,2,17,19,24,27,30,35
<i>Hytotissa numisma</i> (Lamarck, 1819)	14b
OSTREIDAE	
<i>Dendostrea folium</i> (Linnaeus, 1758)	1,2,4a,5,6,10,14a,14b,17,19,27,29,30,31,32b,35
<i>Ostrea tuberculata</i> Lamarck, 1804	1,2,6,7,17,24,27,30
<i>Ostrea</i> sp.	1,4a,14b,16,32b,W5,W9
<i>Saccostrea ?commercialis</i> (Iredale & Roughley, 1933)	6,7,13,13a
<i>Saccostrea cucullata</i> (Born, 1778)	2,5,6,7,14b,14d,17,26,29,32b,37,38,W3,W7
PLICATULIDAE	
<i>Plicatula ?australis</i> Lamarck, 1819	1,2,3,4b,6,7,10,16,17,19,22,31,32a,32b
<i>Plicatula ?chinensis</i> Mörch, 1853	8,35
<i>Plicatula</i> sp.	6,19,22
PECTINIDAE	
<i>Chlamys australis</i> (Sowerby, 1842)	32b
<i>Chlamys flabellata</i> (Lamarck, 1819)	8
<i>Chlamys funebris</i> (Reeve, 1853)	1,4a,4b,7,12,14d,15,16,21,27,32b,37,W1,W2,W9
<i>Chlamys lentiginosa</i> (Reeve, 1853)	1,2,3,6,7,10,12,14b,14d,15,15a,17,18,21,22,23,27,29,32b,33
<i>Chlamys pallium</i> (Linnaeus, 1758)	1,(1-4),4a,7
<i>Chlamys madreporarum</i> (Sowerby, 1842)	6,17,19
<i>Chlamys radula</i> (Linnaeus, 1758)	1,2,4a,6,7,14c,17,18,19,21,24,27,30,33,35
<i>Chlamys scabricostata</i> (Sowerby, 1915)	22,28,28a
<i>Chlamys squamosa</i> (Gmelin, 1791)	(1-4),4a,6,7,14b,17,19,21,24,27,29,30,31,35
<i>Chlamys (Complicachlamys) dringi</i> (Reeve, 1853)	9,17,27,31
<i>Chlamys (Comptopallium) radula</i> (Linnaeus, 1758)	4a,6,14c,17,18,24,31
<i>Chlamys (Excellichlamys) histrionica</i> (Gmelin, 1791)	20,35
<i>Chlamys (Gloripallium) pallium</i> (Linnaeus, 1758)	7
<i>Hemipecten forbesianus</i> (Adams & Reeve, 1848)	17

Table 8 (cont.)

Species	Station Number
SPONDYLIDAE	
<i>Spondylus ?lamarcki</i> Chenu, 1845	1,5,6,7,10,17,19,24,31,32b,35
<i>Spondylus</i> sp. aff. <i>S. echinatus</i> Schreibers, 1793	1,2,4a,5,6,7,12,13a,16,17,19,20,21,24,27,29,31,35
<i>Spondylus</i> sp. aff. <i>S. sanguineus</i> Dunker, 1852	16,19,22,24,32b
<i>Spondylus</i> sp. aff. <i>S. squamosus</i> Schreibers, 1793	2,4b,5,6,7,17,22,24,27,29,31
ANOMIIDAE	
<i>Patro</i> sp. (juvenile)	35
PLACUNIDAE	
<i>Placuna lobata</i> Sowerby, 1871	22
LUCINIDAE	
<i>Anodontia (Cavatidens) ?omissa</i> (Iredale, 1930)	1,8,12,14c,14e,15a,15b,18,21,22,36a,37
<i>Ctena bella</i> (Conrad, 1837)	1,2,5,6,7,12,14b,14c,19,21,29,31
<i>Ctena ?transversa</i> Dall, Bartsch & Rehder, 1938	27,35
<i>Divaricella ornata</i> (Reeve, 1850)	14a,18
<i>Divaricella</i> sp.	14a,18,21
<i>Linga (Bellucina) ?semperiana</i> (Issel, 1869)	8,18,21,22,28a
? <i>Pompholigina</i> sp.	18,21,22
TRIGONIIDAE	
<i>Neotrigonia uniophora</i> (Gray, 1847)	28a,32a
CHAMIDAE	
<i>Chama lazarus</i> (Linnaeus, 1758)	1,4a,6,7,17,19,24,31,35
<i>Chama</i> sp. aff. <i>C. fibula</i> Reeve, 1846	2,4a,4b,6,8,9,15b,17
<i>Chama</i> sp. aff. <i>C. limbula</i> Lamarck, 1819	5,7,14b,14e,26?
<i>Chama</i> sp. aff. <i>C. pacifica</i> Broderip, 1835	1,14d,14,17,20,25,29,31,35
<i>Chama</i> sp. aff. <i>C. plinthota</i> Cox, 1927	2,6,14b,17,24,27
<i>Pseudochama</i> sp.	7,14b,14e,17,27,29,32b,37
UNGULINIDAE	
<i>Felaniella (Zemysia) sp.</i>	1,5,8,12,14c,15a,15b,16,17,18,20,29,32a,36a,36b,37
<i>Numella</i> sp.	12,14c,14e,15a,15b,16,21,36a,37
<i>Diplodonta</i> sp.	1,5,8,9,11,12,14c,14e,15,16,17,18,22
GALEOMMATIDAE	
<i>Ephippodonta</i> sp.	2
CARDITIDAE	
<i>Beguina semiorbiculata</i> (Linnaeus, 1758)	6,7,16,17,19,27,35
<i>Cardita crassicosta</i> Lamarck, 1819	17
<i>Cardita ?marmorea</i> Reeve, 1843	14a,36b
<i>Cardita muricata</i> Sowerby, 1832	9,14b,14d,27,29,32b,37
<i>Cardita preissi</i> Menke, 1843	8,12,13,14b,14d,15a,18,29,32b,36a,36b,37
<i>Cardita variegata</i> (Bruguière, 1792)	1,24,27,29,31,35,W2
" <i>Venericardia</i> " <i>cardioides</i> (Reeve, 1843)	12,15a,16,17,18,22,23,33,36b
CRASSATELLIDAE	
<i>Eucrassatella pulchra</i> (Reeve, 1842)	1,8,12,21,28,28a,36a,W6
CARDIIDAE	
<i>Acrosterigma alternatum</i> (Sowerby, 1841)	1,2,4a,6,7,10,17,19,24,29,30,31,32a,33,35
<i>Acrosterigma dupuchense</i> (Reeve, 1845)	5,7,13,13a,14c,14e,29,37,W1,W2,W9
<i>Acrosterigma reeveanum</i> (Dunker, 1852)	2,3,5,6,10,12,14c,16,17,21,22,23,29,31,32b,33,36a,36b, W1,W2,W9
<i>Acrosterigma transcendens</i> (Melvill & Standen, 1899)	8,12,16,17,18,21,22,25a,28a,33,36a
<i>Acrosterigma ?wilsoni</i> (Voskuil & Hverwagt, 1991)	12,16,22,35,36a
? <i>Ctenocardia peronata</i> (Iredale, 1929)	5,37
<i>Fragum erugatum</i> (Tate, 1889)	12,14c,14e,15a,19,21,22,32b,36a,36b
<i>Fragum (Fragum) unedo</i> (Linnaeus, 1758)	5,8,13,13a,14a,14c,14e,15a,15b,28a,32b,37,W2,W6,W9
<i>Fragum (Lunulicardia) retusum</i> (Linnaeus, 1767)	8,18,32b,36a
<i>Fulvia aperta</i> (Bruguière, 1789)	5,12,13,13a,14a,14c,14e,15a,15b,16,17,18,19,22,28a,29, 32a,32b,33,36a,36b,37
<i>Laevicardium attenuatum</i> (Sowerby, 1841)	1,10,16,23,28a,36a
<i>Laevicardium biradiatum</i> (Bruguière, 1789)	2,17,18,21,23,32a,33

Table 8 (cont.)

Species	Station Number
<i>Lyrocardium lyratum</i> (Sowerby, 1841)	18,22,23,32a,32b,33,35
<i>Plagiocardium setosum</i> (Redfeild, 1848)	19,21,22
HEMIDONACIDAE	
<i>Hemidonax donaciformis</i> (Schroeter, 1786)	13,14a,14c,14e,15a,15b,21,28a,32b,37
TRIDACNIDAE	
<i>Tridacna maxima</i> (Röding, 1798)	1,2,4b,6,7,14d,19,20,24,25,28,29,31,37,W2
<i>Tridacna squamosa</i> Lamarck, 1819	1,2,4b?,6,7,20?,24,25,29,31,35,W2
MACTRIDAE	
<i>Lutraria australis</i> Reeve, 1854	6,11,23,33,35
<i>Mactra explanata</i> Reeve, 1854	10,13,18,21,22,23,36a
<i>Mactra incarnata</i> Reeve, 1854	8,15a,18,21,22,28a,32b,36a
<i>Mactra ?westralis</i> Lamprell & Whitehead, 1990	3
<i>Spisula aspersa</i> (Sowerby, 1825)	35
SOLENIDAE	
<i>Ensis</i> sp.	8,22
PHARIDAE	
<i>Phaxas cultellus</i> (Linnaeus, 1758)	12,14c,17,18,22,33
MESODESMATIDAE	
<i>Paphies striata</i> (Gmelin, 1791)	7,13,13a,14a,14c,14e,32b,W2,W3
TELLINIDAE	
<i>Exotica</i> (<i>Exotica</i>) ? <i>triradiata</i> (H.Adams, 1876)	22,36a
<i>Exotica</i> (<i>Loxoglypta</i>) ? <i>assimilis</i> (Hanley, 1844)	7,14c
<i>Macoma</i> (<i>Scissulina</i>) <i>dispar</i> (Conrad, 1837)	5,7,12,14c,15b,22
<i>Tellina</i> (<i>Cadella</i>) sp.	12,18,21,36a
<i>Tellina</i> (<i>Clathrotellina</i>) <i>elegantissima</i> Smith, 1885	8,12,15b,18,21,22
<i>Tellina</i> (<i>Pharaonella</i>) <i>rostrata</i> Linnaeus, 1758	5,14a,14c,14e,15a,15b,16,22,28a,36b,37
<i>Tellina</i> (<i>Pinguitellina</i>) ? <i>murrayi</i> Smith, 1885	13,14e,16
<i>Tellina</i> (<i>Pinguitellina</i>) <i>robusta</i> Hanley, 1844	14c,15a,16,28a
<i>Tellina</i> (<i>Quadrans</i>) <i>parvitas</i> (Iredale, 1931)	36a
<i>Tellina</i> (<i>Tellinella</i>) <i>radians</i> Deshayes, 1854	7,14a,14c,15b,16,17,18,31,33,35,36a
<i>Tellina</i> (<i>Tellinella</i>) <i>staurella</i> Lamarck, 1819	1,2,5,6,7,13a,14c,14e,16,17,18,19,24,26,33,36a
<i>Tellina</i> (<i>Tellinella</i>) <i>virgata</i> Linnaeus, 1758	5,7,13a,14a,14e,19,29
<i>Tellina</i> (<i>Tellinides</i>) <i>ovalis</i> Sowerby, 1825	18,22
SEMELIDAE	
<i>Leptomysa psittacus</i> (Hanley, 1882)	1,5,6,8,17,18,33
<i>Semele casta</i> A. Adams, 1853	1
<i>Semele exarata</i> (A. Adams & Reeve, 1848)	17
<i>Semele ?jukesii</i> (Reeve, 1853)	2,33
PSAMMOBIIDAE	
<i>Asaphis</i> (<i>Heteroglypta</i>) <i>contraria</i> (Deshayes, 1863)	27
<i>Gari amethystus</i> (Wood, 1815)	22
<i>Gari maculosa</i> (Lamarck, 1818)	2,27
<i>Gari ?occidens</i> (Gmelin, 1791)	2,4a,6,19,24,27,30,31
<i>Gari ?weinkaufi</i> (Crosse, 1864)	12,18
<i>Gari</i> sp.	2,16,17
<i>Soletellina atrata</i> Reeve, 1857	13,14a,15a,15b,37
<i>Soletellina ?ecolorata</i> (Preston, 1914)	8,14a,14c,15a,15b,32b,37
<i>Soletellina haynesi</i> (Preston, 1914)	13
<i>Soletellina</i> sp. (see Lamprell & Whitehead, 1992, #413)	1
SOLECURTIDAE	
<i>Azorinus ?minutus</i> (Dunker, 1871)	28a
FIMBRIIDAE	
<i>Fimbria sowerbyi</i> (Reeve, 1841)	1,8,12,14a,14e,21,28a,36a,36b
DONACIDAE	
<i>Donax cuneatus</i> Linnaeus, 1758	7,14c,28a,29,32b
<i>Donax faba</i> Gmelin, 1791	5,7,14c,36b
<i>Donax veruinus</i> Hedley, 1913	22

Table 8 (cont.)

Species	Station Number
TRAPEZIIDAE	
<i>Trapezium bicarinatum</i> (Schumacher, 1817)	2,3,4a,4b,9,13,14e,26,27,29,31,W4
PETRICOLIDAE	
<i>Mysia</i> sp.	1,8,15b,17,18
<i>Mysia</i> sp.	22,8,12,15a,15b,18,36a
VENERIDAE	
<i>Anomalocardia squamosa</i> (Linnaeus, 1758)	13,13a,14a,14c,15a,37
<i>Antigona</i> (<i>Antigona</i>) <i>chemnitzii</i> (Hanley, 1844)	32a
<i>Antigona</i> ? <i>persimilis</i> (Iredale, 1930)	1
<i>Callista</i> (<i>Costacallista</i>) <i>impar</i> (Lamarck, 1818)	13,14a,14c
<i>Callista</i> (<i>Costacallista</i>) <i>planatella</i> (Lamarck, 1818)	22,32b
<i>Callista</i> (<i>Striacallista</i>) <i>phasianella</i> (Deshayes, 1854)	14c,18,33
<i>Callista</i> (<i>Striacallista</i>) ? <i>roseotincta</i> (Smith, 1885)	6,12,17,18,28a,32a,33,36a
<i>Circe scripta</i> (Linnaeus, 1758)	12,18
<i>Circe sulcata</i> Gray, 1838	18
<i>Circe</i> ? <i>numulina</i> (Lamarck, 1818)	12,13,14c
<i>Dosinia bruguieri</i> Gray, 1835	13,17,21,37
<i>Dosinia contusa</i> (Reeve, 1850)	12,21
<i>Dosinia</i> ? <i>exasperata</i> (Philippi, 1847)	1,2,7,12,16,17, 18,28a,31,33
<i>Dosinia juvenilis</i> (Gmelin, 1791)	2,16,32a,33
<i>Dosinia lucinalis</i> (Lamarck, 1835)	5,14c,14e
<i>Dosinia sculpta</i> (Hanley, 1845)	2,33
<i>Gafrarium</i> sp.	18,W9
<i>Gomphina</i> ? <i>undulosa</i> (Lamarck, 1818)	1,10,11,21,29,32b,36a
<i>Irus</i> sp. aff. <i>I. irus</i> (Linnaeus, 1758)	7,13,14a,14b,14c,19,20,29,31,35,37
<i>Lioconcha</i> ? <i>castrensis</i> (Linnaeus, 1758)	12
<i>Lioconcha fastigiata</i> (Sowerby, 1851)	6,17,19,28a,30,32a,32b
<i>Paphia semirugata</i> (Philippi, 1847)	8,22
<i>Periglypta resticulata</i> (Sowerby, 1853)	2,3,5,6,7,10,12,17,29,33
<i>Periglypta reticulata</i> (Linnaeus, 1758)	3,4b,7,19,20
<i>Periglypta</i> sp.	1,6,13,35
<i>Pitar</i> (<i>Pitarina</i>) <i>affinis</i> (Gmelin, 1791)	33
<i>Pitar</i> (<i>Pitarina</i>) ? <i>japonicus</i> Kuroda & Kawamoto, 1956	5,37
<i>Pitar</i> (<i>Pitarina</i>) ? <i>pellucidus</i> (Lamarck, 1818)	37
<i>Pitar</i> (<i>Pitarina</i>) <i>trevori</i> Lamprell & Whitehead, 1990	8,28a
<i>Placamen calophylla</i> (Philippi, 1836)	1
<i>Placamen gravescens</i> (Menke, 1843)	5,8,14a,16,36b,37
<i>Placamen tiara</i> (Dillwyn, 1817)	15a,15b,18,22,28a
<i>Sunetta contempta</i> Smith, 1891	15a,21,W6
<i>Sunetta perexcavata</i> Fulton, 1915	12,15b,17,18
<i>Tapes literatus</i> (Linnaeus, 1758)	13,14a,23,33,36a,37
<i>Tapes</i> ? <i>platyptycha</i> Pilsbry, 1901	1,6,7,9,17,31,33,37
<i>Tapes</i> ? <i>sericeus</i> Matsukuma, 1986	6,13,14c,17,32a,35
<i>Tapes</i> ? <i>sulcarius</i> (Lamarck, 1818)	6,9,13,17,23,27,32b
<i>Tapes</i> (<i>Ruditapes</i>) sp.	2,5,13,14a,27,33
<i>Tawera coelata</i> (Menke, 1843)	1,21
<i>Tawera laticostata</i> (Odhner, 1917)	10,16,17,18,21,36a
<i>Tawera subnodulosa</i> (Hanley, 1844)	5,8,12,14a,14c,15a,18,22,28a,30,32b,36a,36b
<i>Tawera</i> ? <i>torresiana</i> (Smith, 1884)	22
<i>Tawera</i> sp.	8,12,15a,18,21,36a
<i>Timoclea recognita</i> (Smith, 1885)	1,10,16,21
<i>Ventricolaria embrithes</i> (Melvill & Standen, 1899)	7,9,16,17,22,24,29,35
<i>Ventricolaria toreuma</i> (Gould, 1846)	1,2,3,4a,4b,6,7,9,10,17,19,20,22,24,25,27,29,31,35
CORBULIDAE	
<i>Corbula</i> ? <i>stolata</i> (Iredale, 1930)	5,8,11,12,15,18,36a
GASTROCHAENIDAE	
<i>Gastrochaena</i> ? <i>cuneiformis</i> Spengler, 1783	32b
<i>Gastrochaena</i> sp.	4a,16
HIATELLIDAE	
<i>Hiatella</i> sp.	11

Table 8 (cont.)

Species	Station Number
THRACIIDAE	
<i>Thracia alciope</i> Angas, 1872	8,12,14a,14c,15,15b,16,17,18,28a,33,36a,37
LATERNULIDAE	
<i>Laternula</i> sp.	8,15,14c,14e,28a,32b,37
CLAVAGELLIDAE	
<i>Brechites ?australis</i> Chenu, 1843	18,33,W9
MYOCHAMIDAE	
<i>Myodora</i> sp.	8,12,14a,14b,14c,15a,15b,18,22,28a,36a
CLASS CEPHALOPODA	
OCTOPODIDAE	
<i>Octopus ?cyaneus</i> Gray, 1849	4b,6,7,20,25
SEPIIDAE	
<i>Sepia papuensis</i> Hoyle, 1885	W1
<i>Sepia pharonis</i> Ehrenberg, 1837	W1
CLASS SCAPHOPODA	
DENTALIIDAE	
<i>Dentalium</i> sp.	11,17,28a,W6,W7
LAEVIDENTALIIDAE	
<i>Laevidentalium</i> sp.	4b,5,8,12,14a,14c,15a,16,17,18,22,28,28a,36a,37