

A survey of the benthic molluscs of the Dampier Archipelago, Western Australia

Shirley M. Slack-Smith and Clay W. Bryce

Department of Aquatic Zoology (Molluscs), Western Australian Museum, Francis Street
Perth, Western Australia 6000, Australia
email: shirley.slacksmith@museum.wa.gov.au
clay.bryce@museum.wa.gov.au

Abstract – A total of 695 molluscan species was recorded from intertidal and subtidal surveys conducted at the Dampier Archipelago, Western Australia during October 1998 and August–September 1999. There was a considerable degree of overlap in the molluscan faunas of the eastern and the central and western sectors. However, an east/west gradation in bottom type and exposure is associated with a significant difference in the faunas of the two areas. Of the 523 species recorded from the steeper, higher energy eastern sector, 153 were not recorded from the central and western sectors. Similarly, 180 of the 536 species from the generally more sheltered waters of the central and western sectors were not found further east. However, 199 species were recorded from only a single station during the two survey periods, with 92 of these being found only in the eastern sector and 107 found only in the central and western sectors. Such records contrast with those of the 29 species recorded from 20 or more stations. The greatest diversity of molluscan species was recorded from subtidal habitats characterised mainly or exclusively by living or non-living hard substrata. A slightly lower but comparable diversity was recorded from intertidal and subtidal soft substrata. The molluscan diversity of intertidal hard substrata was approximately one-third that occurring on subtidal hard substrata and on the combined intertidal/subtidal substrata. The diversity of the fauna of these three habitat groupings was much greater than that recorded from the mangals and those recorded in close association with plants and other animal groups. More detailed examination of these habitats than was possible during this survey would undoubtedly lead to an increase in these numbers. The overall diversity of molluscan species recorded for the Dampier Archipelago waters during this survey is greater than those of other Western Australian areas between the Houtman Abrolhos and the western Kimberley areas which have been similarly surveyed.

INTRODUCTION

Marine biological surveys of the marine biota of the Dampier Archipelago were carried out during October 1998 and August–September 1999. The aim was to establish an inventory of the species of selected phyla living in the waters of that archipelago and to relate the occurrence of those species to their habitats.

MATERIALS AND METHODS

Intertidal stations were surveyed during periods of low tide, while subtidal stations were examined with the aid of SCUBA. General descriptions of these stations, with latitudes and longitudes, are given in the Station Lists section of this volume. More detailed descriptions of those survey stations, as they apply to the areas and habitats surveyed for

molluscs, are appended to this paper of the present report (Appendices 1 and 2).

The description of the marine mollusc fauna of the Dampier Archipelago presented here results from records of two expeditions, each involving both diving and intertidal collecting methods. The first survey is titled DA1/98 (October 1998) and the second DA3/99 (August–September 1999). These terms are used to prefix the formal numbering of the 35 stations that were examined during each of these surveys, giving a total of 70 stations, numbered chronologically. It should be noted that another survey, DA2/99 (July 1999) using dredging and grab sampling methods, targeted soft sediment habitats. The results of the mollusc component of that survey is presented in Taylor & Glover (2004).

The mollusc species present at each station were recorded along with a record of the habitat in which

each was found. Voucher specimens of each species are retained within the collections of the Western Australian Museum.

Habitats within each station surveyed during the 1998 and 1999 intertidal/dive surveys (DA1/98 and DA3/99) were grouped to reflect their relevance to molluscs, their biology and life history. The area comprising each of the stations surveyed generally encompassed several habitats grading into one another. As an example, a subtidal rocky reef might merge through a zone of broken coral rubble with sandy pockets to an open sandy plain. Many similar combinations are to be found within the waters of the Dampier Archipelago.

An initial attempt was made to estimate the abundance of the mollusc species at individual stations. However, due to the cryptic nature of many species, together with constraints related to conservation of the habitats and other organisms and to the time available for surveying each station, this procedure was discontinued.

Habitats

The habitat groupings adopted were:

Intertidal hard substrata (IH)

This is an intertidal zone consisting mainly of coral rubble, rocky reef and/or shoreline rock. These hard substrata may be covered with a thin coating of sediment. Animals recorded from such a substratum may either burrow into, cement or adhere to it, or shelter within crevices. They do not move freely within the sediment.

Subtidal hard substrate (SH)

As above but situated below extreme low water spring tide level.

Soft sediment (S)

Intertidal and subtidal sand, silt or mud habitats. In such habitats, mollusc species may be infaunal or epifaunal.

Associated with another organism (AP, AA)

This habitat type applies to those molluscs whose survival strategy is reliant on an intimate and obligatory association with another life form. Occasional, non-obligatory associations of this type are not included here

Associated/Plant (AP)

Molluscs limited to living on sea grasses or algae.

Associated/Animal (AA)

Molluscs limited to living either on or in another living animal (live corals, gorgonians etc.).

Mangals (M)

In this habitat, mollusc species may occur among or on mangrove trees (including their

pneumatophores or other roots), dead logs or other litter and mud. However, during this survey, time constraints did not allow adequate sampling of infaunal species.

RESULTS

Species Lists

A tabular list of the 695 mollusc species found during surveys DA1/98 and DA3/99 is given in Appendix 1. The registration numbers of one or more specimen lots are given for those species for which the identity is currently unknown or uncertain.

For each species listed in Appendix 2 the survey station or stations at which that species was recorded and/or collected is given by the station number, together with an indication of the habitat or habitats in which that species was generally found.

DISCUSSION

As anticipated from previous studies on the mollusc fauna of the Dampier Archipelago and of areas further to the south, the species recorded during these surveys were all of tropical and subtropical affinity, typical of the fauna of the Indo-West Pacific Region.

Comparative Mollusc Diversity of the Dampier Archipelago Waters

The total of 695 mollusc species recorded during this Dampier Archipelago Survey is higher than that recorded for any other locality in the north of Western Australia that has been similarly surveyed (Table 1). However, the return per unit of effort (calculated as the number of species recorded per person-day) is lower than that of the 1995 Muiron Islands-Exmouth Gulf survey (Slack-Smith and Bryce, 1996), of the 1996 Western Kimberley survey (Bryce, 1997) and of the 1995 Bernier-Dorre Islands survey (Slack-Smith and Bryce, 1995). When each section (DA1/98 and DA3/99) of the Dampier Archipelago Survey is considered separately, the figures for "species recorded per unit effort" compare more favorably with those of surveys in these other areas. Some caution is needed in interpreting these results, however, as other factors may be involved, such as the amount of collecting time lost due to weather, travel and station depth.

These figures reflect a degree of repetition in the species lists for the stations surveyed and so are indicative of the widespread distribution of many species within the archipelago waters. Such species are, in general, widely distributed within northern Australian waters and even throughout the central Indo-West Pacific Region.

Of the 523 species of molluscs recorded from the eastern sector of the Dampier Archipelago during the DA1/98 survey, 153 were not recorded from the central and western sectors during the DA3/99 survey. Conversely, of the 536 species recorded during DA3/99, 180 were not found during DA1/98 (Appendix 1).

These results emphasise the difference in the nature of the habitats represented in the steeper, high energy, oceanic eastern zone of the Archipelago as distinct from those of the generally shallower, more sheltered waters of the central and western zones.

One hundred and ninety nine species of the overall total of 695 were recorded from single stations. Of these, 92 were found only during the survey DA1/98 and 107 only during DA3/99. Such records contrast with the number of species recorded from many stations, particularly those from 20 or more, as listed in the results section.

Widespread and Abundant Mollusc Species

Many molluscs are cryptic and/or nocturnal. Due to logistical constraints, it proved impossible to reliably estimate the abundance of each species at the stations surveyed. However, the data collected (see the number of stations at which each species was recorded in Appendix 1) does reflect those benthic mollusc species most often encountered. These species are not only the most widespread within the surveyed waters but are generally the most abundant. A list of the species that occurred at > 20 of the 70 survey stations is given below.

Gastropoda

Tectus pyramis (Born, 1778)
Angaria delphinus (Linnaeus, 1758)
Astrarium stellare (Gmelin, 1790)
Turbo petholatus Linnaeus, 1758
Cerithium novaehollandiae A. Adams, 1855
Rhinoclavis bretteghami Cernohorsky, 1974
Strombus urceus Linnaeus, 1758
Cypraea eglantina Duclos, 1833
Cronia avellana (Reeve, 1846)
Morula margaritica (Broderip, 1832)
Morula spinosa (H. and A. Adams, 1853)
Thais echinata (Blainville, 1832)
Melo amphora (Solander, 1786)
Cymbiola oblita (Smith, 1909)
Phyllidia coelestis (Bergh, 1869)
Phyllidiella pustulosa (Cuvier, 1804)

Bivalvia

Arca ventricosa Lamarck, 1819
Barbatia (Barbatia) amygdalumtostum (Röding, 1798)
Septifer bilocularis (Linnaeus, 1758)
Pinna bicolor Gmelin, 1791

Pinna deltodes Menke, 1843
Pinctada albina (Lamarck, 1819)
Isognomon isognomum (Linnaeus, 1758)
Isognomon legumen (Gmelin, 1791)
Malleus malleus (Linnaeus, 1758)
Complicachlamys wardiana Iredale, 1939
Decatopecten radula (Linnaeus, 1758)
Plicatula australis Lamarck, 1819
Dendostrea folium (Linnaeus, 1758)

Habitats

A mollusc species may favor one habitat, though it may also occur in neighboring habitats where similar substrates or other essential environmental factors are available. Similarly, the “hosts” of many animal or plant-associated species, as well as the species of symbionts, predators or parasites, may exhibit flexibility in their environmental requirements.

This survey showed that, in the waters of the Dampier Archipelago, subtidal hard substrata support the most diverse mollusc fauna, with 307 of the 695 species recorded from that habitat type. By contrast, mollusc diversity was shown to be least on subtidal reefs supporting a dense growth of living corals. Molluscs inhabiting such aesthetically attractive habitats are of two main types – those that shelter (during the day, at least) amid the “under storey” beneath the living coral growth and those which live in a more intimate association with the live coral itself.

A greater variety of molluscs occur in other habitats, such as reef areas (both intertidal and subtidal) consisting principally of hard rock substrata, dead coral slabs, rubble and sand pockets, with a little live coral and other colonial forms such as sponges and soft corals. Such areas generally support a variety of algal and, more rarely, sea grass communities and so support herbivorous as well as carnivorous species.

About 16% of the mollusc species found on subtidal hard substrata can also live on intertidal equivalents. However, of the 101 species recorded from intertidal hard substrata, over 50% were also found subtidally.

Extensive intertidal and subtidal sandy plains often appear almost bereft of molluscs, as well as other biota. However, this habitat generally supports a wide diversity and often high concentrations of sand dwelling species, both infaunal and epifaunal filter feeders, detritivores and carnivores. Some sand-dwelling species may also inhabit small sand pockets within reef flats and subtidal reefs. The 277 mollusc species recorded as soft-substratum dwellers have not been separated into intertidal or subtidal habitats as there is much overlap. Only two soft-substratum dwellers seem to be also associated with hard substrata. Various venerid bivalves apparently benefit from the extra

protection from predators (fish, birds, etc.) gained from living among rocks and the solecurtid *Azorinus? minutus* was found within a mangal.

Twenty one mangal-associated mollusc species were recorded during this survey. They included almost all the gastropods belonging to the Potamididae, Ellobiidae and Onchidiidae, a neritid and two species of littorinid gastropods and the mytilid mussel *Stavelia horrida*. These all appeared to be restricted to the mangals. Some mangal species, such as the rock oysters and the bivalve *Azorinus*, were less restricted in their habitat.

Forty three mollusc species were associated with other organisms but little detail is known of the degree and specificity of most of these associations. Some pteriid species of the genera *Pteria* and *Electroma* appear to survive best when protected from predators by the hydroids and gorgonians to which they attach, although a very few individuals were found living in rock crevices. Some apparently conspecific individuals of the mytilid genus *Lithophaga* were found within both dead and living coral skeletons, even though Kleeman (1980) indicated that species on the Great Barrier Reef in Queensland and in Aqaba inhabited only dead or living coral, but not both. The oyster *Ostrea tuberculata* and the pectinid *Hemipecten forbesianus* showed little if any selectivity of the living coral species to which they attached.

Diversity

Discounting the stations DA1/98/05 and DA1/98/34, at which molluscs were not surveyed (although specimens were collected by workers on other groups), the 68 stations surveyed for molluscs are divided, for this purpose, into two groups – subtidal and intertidal.

It should be noted, however, that these groups might overlap to some extent. Onshore sections of some stations, which were surveyed by diving at high tide, would be exposed at low water springs, if not at low water neaps. Conversely, the offshore sections of some station areas surveyed on foot during low tides were at or below the level of low water neap if not low water spring tides. In addition, some molluscan species inhabit areas both above and below low water levels.

The numbers of molluscan species recorded from the 45 'subtidal' survey stations ranged from 14 to 85, with an average diversity of 54.80 species/station. Of these 45 stations, DA1/98/04 and 33, and DA3/99/37, 44, 47, 67 and 70 exhibited the greatest diversity (see Appendix 1). At least 75

species were recorded from each, with an average of 79.7 species/station.

The numbers of molluscan species recorded from the 23 'intertidal' survey stations ranged from 34 to 120, with an average diversity of 81.04 species/station. Of these 23 stations, DA1/98/11, 23 and 31, and DA3/99/38 and 54 exhibited the greatest diversity (see Appendix 1), with 101 species or more recorded from each and an average of 108.40 species/station.

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Table 1 Comparison of results of present (DA1/98, DA3/99) and similar past surveys off the northern coasts of Western Australia (listed from north to south).

Surveyed Locality	Year	Nos workers	Survey duration (days)	Total species	Species per day per person	Source
Western Kimberley	1996	1	13 (13 person days)	292	22.46	Bryce (1997)
Southern Kimberley	1994	2	13 (26 person days)	232	8.99	Wells and Bryce (1994)
Dampier Arch. (DA1/98, DA3/99)	1998 and 1999	2	26 (52 person days)	695	13.4	Present surveys
Dampier Arch. DA1/98	1998	2	13 (26 person days)	523	20.1	Present survey
Dampier Arch. DA3/99	1999	2	13 (26 person days)	536	20.6	Present survey
Montebello Islands	1993	3	17 (51 person days)	631	12.82	Wells <i>et al.</i> (2000)
Muiron Islands and east coast of Exmouth Gulf	1995	2	12 (24 person days)	655	27.29	Slack-Smith and Bryce (1996)
Bernier and Dorre Islands, Shark Bay	1995	2	12 (24 person days)	425	16.86	Slack-Smith and Bryce 1995
Houtman Abrolhos Islands	To May 1994	Numerous	Accumulated over some years	492	?	Wells and Bryce 1997

Table 2 Distribution of mollusc species within the waters of the Dampier Archipelago: analysis of the species list.

Species	Numbers
Total number of species recorded from the two intertidal/diving surveys, DA1/98 and DA3/99, each encompassing 35 survey stations	695
Total number of species recorded only from survey DA1/98	523
Total number of species recorded only from survey DA3/99	536
Number of species recorded as limited to survey DA1/98	153
Number of species recorded as limited to survey DA3/99	180
Total number of species recorded from DA1/98 and DA3/99 combined, which were represented by only a single record	199
Number of species recorded only from survey DA1/98, which were represented by only a single record	92
Number of species recorded only from survey DA3/99, which were represented by only a single record	107

Table 3 Mollusc diversity within habitat groupings.

Habitat grouping	Number of species
Subtidal hard substrata (SH)	307
Intertidal hard substrata (IH)	101
Soft substrata (S)	277
Mangals (M)	21
Animal associated (AA)	43
Plant associated (AP)	7

Appendix 1 Marine mollusc species recorded from the Dampier Archipelago during diving surveys DA1/98 and DA3/99. Habitat key: IH = intertidal hard substrate; SH = subtidal hard substrate; S = soft sediment; M = mangrove; A = associated habitat (AA = associated with animal, AP = associated with plant).

Taxa	Station number	Habitat
Class POLYPLACOPHORA		
Family Ischnochitonidae		
<i>Ischnochiton</i> sp. (WAM S 18665)	28	IH
Family Chitonidae		
<i>Acanthopleura gemmata</i> Blainville, 1825	2,7,14,17,20,25,28,59,66	IH
<i>Acanthopleura spinosa</i> (Bruguère, 1792)	2,7,14,17,20,28	IH
<i>Acanthopleura</i> sp. (WAM S 18663)	14	IH
Class GASTROPODA		
Subclass EOGASTROPODA		
Family Lottiidae		
<i>Patelloida mimula</i> (Iredale, 1924)	7,17,28,29,38,48,59	IH
<i>Patelloida saccharina</i> (Linnaeus, 1758)	2,6,7,17,25,28,29,31	IH
<i>Acmeid</i> sp. (WAM S 18654)	7,17,28,30,59	IH
Family Patellidae		
<i>Cellana radiata</i> (Born, 1778)	6,7	IH
<i>Patella flexuosa</i> (Quoy and Gaimard, 1834)	7,17,27,30,31	IH
Subclass ORTHOGASTROPODA		
Family Haliotidae		
<i>Haliotis asinina</i> Linnaeus, 1758	19,25,35,60	SH
<i>Haliotis crebrisculpta</i> Sowerby, 1914	9	SH
<i>Haliotis ovina</i> Gmelin, 1791	66	SH
<i>Haliotis squamata</i> Reeve, 1846	7,8,14,16,19,20,21,25,37,38,42,44,45,47,48,51,58,59,61	SH,IH
<i>Haliotis varia</i> Linnaeus, 1758	2,6,8,16,17,19,25,45,53,59	SH,IH
Family Fissurellidae		
<i>Diodora jukesii</i> (Reeve, 1850)	2,7,11,14,23,25,28,54	SH,IH
<i>Diodora singaporensis</i> (Reeve, 1850)	8,25,44,54,61	SH,IH
<i>Emarginula incisura</i> (Adams, 1853)	16,28,30,33,38,54,59,66	SH,IH
<i>Emarginula</i> sp. (WAM S 18792)	29	SH
<i>Hemitoma excentrica</i> (Iredale, 1929)	4,6,11,12,17,23	SH
<i>Macroschisma munita</i> Iredale, 1940	7,9,14,59,66	SH,IH
<i>Montfortula variegata</i> (Adams, 1852)	28,30	SH
<i>Montfortula rugosa</i> (Quoy and Gaimard, 1834)	59	IH
<i>Scutus unguis</i> (Linnaeus, 1758)	20,31,36,45,51,54,57,59,62,65	SH,IH
Family Trochiidae		
<i>Astele</i> sp. (WAM S 27125)	6,48,65	SH,AA
<i>Calthotia baudini</i> (Fischer, 1878) (WAM S 30223)	37,47, Lewis I.	IH,SH,S
<i>Calthotia mundula</i> (Adams and Angas, 1864)	6,7,9,14,16,17,19,59	IH
<i>Calthotia strigata</i> (Adams, 1853)	2,7,9,14,16,17,19,22,23,28,30,31,41,47,59,66,67	IH
<i>Chlorodiloma zeus</i> (Fischer, 1874)	6,7,16,47,48	SH
<i>Clanculus atropurpureus</i> (Gould, 1849)	6,7,9,18,42,45,57	SH
<i>Clanculus ?comarilis</i> Hedley, 1912 (WAM S 30221)	23,44,49	SH
<i>Ethalia</i> sp. (WAM S 27110)	10	SH
<i>Euchelus</i> sp. (WAM S 18541)	23,30,47	SH,IH
<i>Gibbula ?macgillivrayi</i> (WAM S 18579)	6,59	SH,IH
<i>Herpetopoma atrata</i> (Gmelin, 1791)	38,41,42,51,54, 57,59,62,68	SH,IH
<i>Herpetopoma rubra</i> (Adams, 1853)	59	SH
<i>Herpetopoma</i> sp. (WAM S 30229)	1	SH
<i>Hybochelus cancellatus</i> (Krauss, 1848)	51,59	SH
<i>Jujubinus gilberti</i> (Montrouzier, 1878)	25,28,47,70	SH
<i>Jujubinus polychromus</i> (Adams, 1853)	59,70	SH
<i>Microtis rubra</i> (Deshayes, 1843)	42,59,61	SH
<i>Monilea callifera</i> (Lamarck, 1822)	11,41	S

Taxa	Station number	Habitat
<i>Monodonta labio</i> (Linnaeus, 1758)	2,7,10,17,23,59,66	IH
<i>Pseudostomatella maculata</i> (Quoy and Gaimard, 1834)	9	SH
<i>Pseudostomatella papyracea</i> (Gmelin, 1791)	6,14,16,19,23,25,37,47,51,59,70	SH
<i>Pseudostomatella</i> sp. (WAM S 30227)	3,8	SH
<i>Stomatella impertusa</i> (Burrow, 1815)	25,27,37,42,45,47,48,51,59,61,70	SH
<i>Stomatia phymotis</i> Helbling, 1779	13,16	SH
<i>Talopena vernicosa</i> (Gould, 1861)	37,47	
<i>Tectus fenestratus</i> (Gmelin, 1791)	14,23,25,31,35,38,51,54,59,62,66,68	SH,IH
<i>Tectus pyramis</i> (Born, 1778)	1,3,8,10,12,13,14,16,18,19,20,21,22,23,24, 25,29,31,32, 35,36,37,42,43,44,45,46,47,49,52,53,56, 58,61,66,67,70	SH,IH
<i>Tectus schleuteri</i> (Sowerby, 1894)	37	SH
<i>Trochus hanleyanus</i> Reeve, 1843	2,6,7,8,14,23,25,28,31,38,42,45,51,54,59,62,66	SH,IH
<i>Trochus histrio</i> Reeve, 1842	3,7,12,18,23,35,36,38,44,49,58,63	SH
<i>Trochus ?histrio</i> Reeve, 1842	46	
<i>Trochus ?stellatus</i> (Gmelin, 1791) (WAM S 27104)	12,16,19,22,25,28?	SH
?Sub-family Solariellinae (WAM S 30225)	38	S
Family Turbinidae		
<i>Angaria delphinus</i> (Linnaeus, 1758)	2,6,9,14,16,17,19,28,31,35,37,38,40,43,46,47,48,51,54, 56,58,59,62,64,67,70	SH,IH
<i>Astralium pileolum</i> (Reeve, 1842)	6,7,9,11,14,16,17,19,21,23,25,31,35,37,38,44,45,48,51,54,66	SH
<i>Astralium rotularia</i> (Lamarck, 1822)	45,48,51	SH,IH
<i>Astralium stellare</i> (Gmelin, 1790)	1,6,9,12,13,16,17,18,19,21,22,28,29,32,35,36,37,42,44, 45,46,47,48,50,51,54,56,58,59,61,67,69,70	SH
<i>Liotina crassibassis</i> Smith, 1880	6,19	SH
<i>Liotina peronii</i> (Kiener, 1839)	6,7,16,19,23,28	SH,IH
<i>Phasianella solida</i> (Born, 1778)	7,9,14,16,25,30,37,45,47,48,51	SH,S
<i>Turbo argyrostomus</i> Linnaeus, 1758	3,7,8,12,13,15,16,18,21,22,25,32,37,44,46,53,58,68	IH
<i>Turbo brunneus</i> Röding, 1791	4,6,16,17,19,25,35,38,43,45,47,48,51,66,68,70	IH
<i>Turbo cinereus</i> Born, 1798	7,10,11,14,17,23,25,28,31,38,42,45,51,54,59,62	IH
<i>Turbo petholatus</i> Linnaeus, 1758	1,6,8,13,16,18,22,24,33,37,40,42,43,47,48,56,57,60,61 65,68,70	IH
<i>Turbo squamosus</i> Gray, 1847	7,10,11,25,31,35,38,48,51,54,62,64	IH
Family Neritidae		
<i>Nerita albicilla</i> Linnaeus, 1758	7,10,23,38,59	IH
<i>Nerita balteata</i> Reeve, 1855	11,17,31,54,59,62,66	M
<i>Nerita chamaeleon</i> Linnaeus, 1758	17,20,25	IH
<i>Nerita squamulata</i> Le Guillou, 1841	2	IH
<i>Nerita undata</i> Linnaeus, 1758	10,17,20,28, 42,54,59,62,66	IH
<i>Neritopsis radula</i> (Linnaeus, 1758)	37,46,54,59,64	SH
Family Littorinidae		
<i>Littoraria filosa</i> (Sowerby, 1832)	51,54,59,62	M
<i>Littoraria pallescens</i> (Philippi, 1846)	28,31	M
<i>Nodilittorina trochoides</i> (Gray, 1839)	10,14	IH
<i>Nodilittorina vidua</i> (Gould, 1859)	7,10	IH
Family Rissoidae		
cf. <i>Zebina gigantea</i> Deshayes, 1850	64	?
Family Turritellidae		
<i>Archimediella fastigiata</i> (Adams and Reeve, 1848)	30	S
Family Modulidae		
<i>Modulus tectum</i> (Gmelin, 1791)	6,7,16,25,32,35,36,37,44,47,53,54,58,70	SH
Family Planaxidae		
<i>Planaxis sulcatus</i> (Born, 1780)	7,10,11,14,17,20,25,28,38,45,51,54,59,62,66	IH
Family Capulidae		
<i>Cheilea equestris</i> (Linnaeus, 1758)	16,17,21,27,31,32,38,46,47,48,57,59	SH

Taxa	Station number	Habitat
Family Xenophoridae		
<i>Xenophora indica</i> (Gmelin, 1791)	57,69	S
Family Siliquariidae		
<i>Siliquaria ponderosa</i> (Mörch, 1860)	4,10,11,13,18,23,31,35,37,38,54,59	SH
<i>Siliquaria</i> sp. cf. <i>anguina</i> (Linnaeus, 1758)	1,18,64	SH
Family Vermetidae		
<i>Serpulorbis</i> sp. A (WAM S 18604)	1,4,24,33,40,47,53,56,57,60	SH
Beaded vermetid (WAM S 18603)	11	SH
Family Cerithiidae		
<i>Cerithium balteatum</i> Philippi, 1848	6,4,19,44,54	S
<i>Cerithium coralium</i> Kiener, 1841	59	S
<i>Cerithium echinatum</i> Lamarck, 1822	3,4,6,13,19,21,32	S
<i>Cerithium novaehollandiae</i> A. Adams, 1855	1,3,4,6,11,12,14,16,17,19,20,21,22,23,24,28,29,31,32,33,35, 36,37,40,41,43,45,47,48,50,51,52,53,54,56,57,58,61,62, 65,67,70	S
<i>Cerithium torresi</i> Smith, 1884	11,62	S
<i>Cerithium traillii</i> Sowerby, 1855	19,35,61	S
<i>Cerithium zonatum</i> (Wood, 1828)	6,7,10,11,14,19,35,53,54,59,62,66,70	S
<i>Pseudovertagus aluco</i> (Linnaeus, 1758)	7,10,11,14,31,35,38,41,51,54,59	S
<i>Rhinoclavus bituberculata</i> (Sowerby, 1865)	9,14,45,51	S
<i>Rhinoclavis brettinghami</i> Cernohorsky, 1974	6,7,8,13,14,16,22,25,31,33,37,43,44,46,47,49,50,51,58, 62,65,70	S
<i>Rhinoclavus articulata</i> (Adams and Reeve, 1850)	38	S
<i>Rhinoclavus fasciatus</i> (Bruguière, 1792)	7,10,11,38,41,51,54,59,62,66	S
<i>Rhinoclavus kochi</i> (Philippi, 1848)	41,68	S
<i>Rhinoclavus vertagus</i> (Linnaeus, 1758)	2,10,23	S
<i>Velacumantus australis</i> (Quoy and Gaimard, 1834)	2,6	S
Family Potamidiidae		
<i>Cerithidea cingulata</i> (Gmelin, 1791)	31,54,62	M
<i>Cerithidea reidi</i> Houbrick, 1986	31	M
<i>Clypeomorus batillariaeformis</i> Habe and Kosuge, 1966	7,11,14,20,28,54,59,62	S
<i>Clypeomorus bifasciata</i> (Sowerby, 1855)	59	M
<i>Telescopium telescopium</i> (Linnaeus, 1758)	62	M
<i>Terebralia palustris</i> (Linnaeus, 1767)	2,31,54,59,62,66	M
<i>Terebralia semistriata</i> Mörch, 1852	31,54,59	M
Family Truncatellidae		
<i>Truncatella</i> sp. (WAM S 22039)	10	IH
Family Strombidae		
<i>Lambis lambis</i> (Linnaeus, 1758)	33	S
<i>Strombus campbelli</i> Griffith and Pidgeon, 1834	2,11,14,17,20,23,30,38,41,42,44,54,56,62	S
<i>Strombus labiatus</i> (Röding, 1798)	7	S
<i>Strombus mutabilis</i> Swainson, 1921	11,17,38,44,45	S
<i>Strombus urceus</i> Linnaeus, 1758	2,7,9,10,11,17,20,23,25,31,34,35,37,38,42,45,48,51,54, 59,62,66,69	S
<i>Strombus vomer</i> (Röding, 1798)	9,11,14,17,19,25,37,40,47,70	S
<i>Terebellum terebellum</i> (Linnaeus, 1758)	41	S
Family Vanikoridae		
<i>Vanikoro cancellata</i> (Lamarck, 1822)	67	SH
<i>Vanikoro sigaretiformis</i> (Potiez and Michaud, 1838)	31	SH
Family Calyptraeidae		
<i>Crepidula aculeata</i> Gmelin, 1791	20,26,30,38,39,41,45,51,54	IH
Family Naticidae		
<i>Natica collei</i> (Récluz, 1844)	41	S
<i>Natica euzona</i> (Récluz, 1844)	7,54,59,66	S
<i>Natica fasciata</i> (Röding, 1791)	20	S

Taxa	Station number	Habitat
<i>Natica gualteriana</i> (Récluz, 1844)	11,38,45,48,54,59,66,70	S
<i>Natica robillardi</i> Sowerby, 1843	38,62	S
<i>Natica simplex</i> Schepman, 1909	54,56,66	S
<i>Natica vitellus</i> Linnaeus, 1758	45	S
<i>Polinices albumen</i> (Linnaeus, 1758)	38	S
<i>Polinices conicus</i> (Lamarck, 1822)	11,38,62,59	S
<i>Polinices melanostomus</i> (Gmelin, 1791)	7,37,38,47	S
<i>Polinices powisiana</i> (Récluz, 1844)	51,68,70	S
<i>Polinices simiae</i> (Deshayes, 1838)	65	S
Family Cypraeidae		
<i>Cypraea carneola</i> Linnaeus, 1758	40	SH
<i>Cypraea gracilis</i> Gaskoin, 1849	36,45,47,48,54,56,66,70	IH
<i>Cypraea lynx</i> Linnaeus, 1758	45,48,51	SH
<i>Cypraea miliaris</i> Gmelin, 1791	37,68,69	SH
<i>Cypraea lutea</i> Gmelin, 1791	54	SH
<i>Cypraea annulus</i> Linnaeus, 1758	48,66	IH
<i>Cypraea chinensis</i> Gmelin, 1791	3,70	SH
<i>Cypraea clandestina</i> Linnaeus, 1767	7,8,16,21,36,37,38,45,46,51	SH
<i>Cypraea cribraria</i> Linnaeus, 1758	8,12,15,44,57,60	SH
<i>Cypraea cylindrica</i> Born, 1778	4,8,12,17,18,19,20,21,23,24,25,28,31,32,35,36,45,46,64,70	SH
<i>Cypraea eglantina</i> Duclos, 1833	3,6,8,12,14,15,16,18,19,20,21,22,25,26,36,37 40,44,45, 46,47,49,52,53,57,62,69	SH
<i>Cypraea erosa</i> Linnaeus, 1758	3,10,12,13,14,15,18,19,21,24,32,36,44,53,58,60,64	SH
<i>Cypraea erronea</i> Linnaeus, 1758	11,14,28,38,45,48,51,54,59,62,66	IH
<i>Cypraea flaveola</i> Linnaeus, 1758	4	SH
<i>Cypraea helvola</i> Linnaeus, 1758	16,21,22,32,37,46,47,50	SH
<i>Cypraea hirundo</i> Linnaeus, 1758	3,4,6,8,21,28,45	SH
<i>Cypraea isabella</i> Linnaeus, 1758	7,13,18,44	SH
<i>Cypraea limacina</i> Lamarck, 1810	21,40,46	SH
<i>Cypraea pallidula</i> Gaskoin, 1849	3	SH
<i>Cypraea quadrimaculata</i> Gray, 1824	12	SH
<i>Cypraea staphylaea</i> Linnaeus, 1758	3,13,16,38,45	SH
<i>Cypraea subviridis</i> Reeve, 1835	14,33,37,41,42,44,48,51,59,70	SH
<i>Cypraea talpa</i> Linnaeus, 1758	21	SH
<i>Cypraea alisonae</i> Burgess, 1983/ <i>teres</i> Gmelin, 1791	12,21,40	SH
<i>Cypraea ursellus</i> Gmelin, 1791	3,4	SH
<i>Cypraea tigris</i> Linnaeus, 1758	18,39	SH
<i>Cypraea vitellus</i> Linnaeus, 1758	1,17,18,24,38,44,45,48,51,53,54	SH
<i>Cypraea caurica</i> Linnaeus, 1758	1,4,6,9,13,16,20,33,12,36,40,45,47,48,54,62	SH
<i>Cypraea caputserpentus</i> Linnaeus, 1758	3,8,10,15,26,42,46,48,58	SH
<i>Cypraea moneta</i> Linnaeus, 1758	7,8,11,38,48,51,59,66	IH
<i>Cypraea hammondae</i> Iredale, 1939	22,47	SH
<i>Cypraea cicercula</i> Linnaeus, 1758	67	SH
Family Ovulidae		
<i>Prosimnia semperi</i> (Weinkauff, 1881)	8	AA
<i>Phenacovolva</i> sp. 1 (WAM S 27000)	41,68	AA
<i>Phenacovolva</i> sp. 2 (WAM S 27002)	39	AA
Family Triviidae		
<i>Trivia oryza</i> (Lamarck, 1810)	3,6,10,12,21,22,31,32,64,47,48,54	SH
Family Epitoniidae		
<i>Epitonium</i> sp. (WAM S 27048)	49	AA
<i>Epitonium costulatum</i> Kiener, 1839	53	AA
Family Eulimidae		
<i>Apicalia</i> sp. cf. <i>brazieri</i> (Angas, 1877)	67	AA
<i>Eulimid</i> sp. (WAM S 27010)	48	AA
Family Ficidae		
<i>Ficus</i> sp. cf. <i>subintermedia</i> (Orbigny, 1852)	4	S
<i>Ficus eosquilla</i> (Péron, 1807)	41,55	S

Taxa	Station number	Habitat
Family Velutinidae		
<i>Chelynotus tonganus</i> Quoy and Gaimard, 1832	21,49	SH
Family Ranellidae		
<i>Cymatium labiosum</i> (Wood, 1828)	7,45,54	SH
<i>Cymatium pileare</i> (Linnaeus, 1758)	21,24,36,37	SH
<i>Cymatium vespaceum</i> (Lamarck, 1822)	4,9,11,12,17,23,47,48,51,54,56,57,62,64,66	SH
<i>Cymatium sarcostomum</i> (Reeve, 1844)	57	SH
<i>Gyrineum lacunatum</i> (Mighels, 1845)	51	SH
Family Bursidae		
<i>Bursa granularis</i> (Röding, 1798)	4,25,32,39,40,47	SH
Family Cassidae		
<i>Phalium bandatum</i> (Perry, 1811)	7,46,56,57,65,68,69	S
<i>Semicassis pyrum</i> (Lamarck, 1822)	25,69	S
<i>Semicassis bisulcata</i> (Schubert and Wagner, 1829)	69	S
Family Tonnidae		
<i>Tonna allium</i> (Dillwyn, 1817)	23,25	S
<i>Tonna tessellata</i> (Lamarck, 1816)	69	S
Family Muricidae		
<i>Chicoreus cornucervi</i> (Röding, 1798)	23,41,57,59	IH
<i>Chicoreus microphyllus</i> (Lamarck, 1815)	3,4,21,22,32,40,43,46,49,50,52,69,70	SH
<i>Murex brevispina</i> Lamarck, 1822	30	S
<i>Haustellum multiplicatus</i> (Sowerby, 1895)	30,57	S
<i>Homalocantha secunda</i> (Lamarck, 1822)	23,33,22	IH
<i>Pterynotus akation</i> Vokes, 1993	11,23	SH
<i>Pterynotus acanthopterus</i> (Lamarck, 1816)	11,41,68	SH
<i>Hexaplex stainforthi</i> (Reeve, 1843)	6,20,37,45,47,48,51,55,56,64,67,70	SH
<i>Aspella producta</i> (Pease, 1861)	6	SH
<i>Aspella platylaevis</i> Radwin and D'Attilio, 1976)	48	SH
<i>Murex acanthostephes</i> Watson, 1883	11,41,57,69	S
<i>Chicoreus rubiginosus</i> (Reeve, 1845)	13	SH
<i>Favartia salmonea</i> (Melvill and Standon, 1899)	56	IH
Family Thaididae		
<i>Coralliophila confusa</i> Kosuge, 1986	70	AA
<i>Coralliophila costularis</i> (Lamarck, 1816)	4,40	AA
<i>Coralliophila neritoidea</i> (Lamarck, 1816)	21,27,32,50	AA
<i>Rapa rapa</i> (Linnaeus, 1758)	27	AA
<i>Quoyula madreporarum</i> (Sowerby, 1832)	31	AA
<i>Cronia avellana</i> (Reeve, 1846)	2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,36,37,40,42,43,44,45,46,47,48,50,51,53,54,56,57,58,59,61,62,64,65,66,67,70	SH
<i>Cronia crassulnata</i> (Hedley, 1914)	1,7,36,38,44,48,51,54,58,60,63	SH
<i>Morula margariticola</i> (Broderip, 1832)	1,2,6,7,8,10,11,12,13,14,17,19,20,21,24,25,28,29,31,32,36,38,42,44,45,48,51,54,58,59,60,62,63,66,68	SH
<i>Drupella rugosa</i> (Born, 1778)	1,8,12,16,18,19,21,24,25,29,33,58,60,61	SH
<i>Morula granulata</i> (Duclos, 1832)	7,10,11,25,28,45,48,59,62	IH
<i>Morula spinosa</i> (H. and A. Adams, 1853)	3,4,8,12,13,15,17,18,19,20,21,22,24,26,27,29,32,35,36,37,39,43,44,45,46,50,56,57,58,60,63,67	SH
<i>Thais aculeata</i> (Deshayes, 1844)	7,10,25,28,46	IH
<i>Thais alouina</i> Röding, 1798	5,8,46	SH
<i>Thais echinata</i> (Blainville, 1832)	1,4,6,8,10,12,13,15,16,18,19,20,21,22,25,29,32,33,36,37,40,42,43,44,45,46,48,49,50,51,52,53,54,56,57,58,60,63,65,67,69,70	SH
<i>Drupella cornis</i> (Röding, 1798)	8,18,22,29,32,36,58,60,63	AA
<i>Pinaxia versicolor</i> (Gray, 1839)	9,37,70	AA?
Family Collumbellidae		
<i>Pyrene testudinaria</i> (Link, 1807)	43,45,48,51	SH
<i>Pyrene flava</i> (Bruguère, 1789)	6,14,17,19,20,45,48,65	IH
<i>Pyrene varians</i> (Sowerby, 1832)	6,9,31,34,37,45,47,48,51	AP
<i>Mitrella albina</i> (Kiener, 1841)	47	AP

Taxa	Station number	Habitat
<i>Pyrene punctata</i> (Bruguère, 1789)	65,70	IH
<i>Pyrene essingtonensis</i> (Reeve, 1859)	62	IH
Family Buccinidae		
<i>Cantharus fumosus</i> (Dillwyn, 1817)	25	SH
<i>Cantharus erythrostromus</i> (Reeve, 1846)	9,28,31,37,45,48,51,58,59,62	SH
<i>Cominella acutinodosa</i> (Reeve, 1846)	10,11,17,23,38,51,54,59,62,70	IH
<i>Pisanea ignea</i> (Gmelin, 1791)	18,19	SH
<i>Phos sculptilis</i> Watson, 1886	20,34,41,56	SH
Family Colubrariidae		
<i>Colubraria</i> sp. (WAM S 22036)	3	SH
Family Turbinellidae		
<i>Tudivasum inermis</i> (Angas, 1878)	68	S
Family Melongenidae		
<i>Syrinx aruanus</i> (Linnaeus, 1758)	2,6,7,10,11,17,20,23,27,31,36,38,45,51,54,56,59,62,65,70	S
Family Nassariidae		
<i>Nassarius clarus</i> (Marrat, 1877)	38,54,59,62,66	S
<i>Nassarius dorsatus</i> (Röding, 1798)	2,10,11,54,62	S
<i>Nassarius glans</i> (Linnaeus, 1758)	6,8,17,31,51,55,57,61,68	S
<i>Nassarius pauperus</i> (Gould, 1850)	38,47,62	S
<i>Nassarius conoidalis</i> (Deshayes, 1832)	38	S
<i>Nassarius albinus</i> (Thiele, 1930)	62	S
<i>Nassarius albescens</i> (Dunker, 1846)	38,54	S
<i>Hebra horrida</i> (Dunker, 1847)	38	S
Family Fascioliariidae		
<i>Latirus turritus</i> (Gmelin, 1791)	1,8,12,14,15,18,19,22,25,29,37,44,45,46,48,51,58,63,69,70	SH
<i>Peristernia incarnata</i> (Kiener, 1840)	3,37,44,45,48,51,53,58,70	SH
<i>Latirus walkeri</i> Melvill, 1895	17,45,51,56,61	IH
<i>Latirus paetelianus</i> (Kobelt, 1876)	1,6,17,25,33,51,69,70	SH
<i>Fusinus colus</i> (Linnaeus, 1758)	56	SH
Family Harpidae		
<i>Harpa amouretta</i> Röding, 1798	21	S
Family Olividae		
<i>Ancillista muscae</i> (Pilsbry, 1926)	11,42	S
<i>Ancillista cingulata</i> (Sowerby, 1830)	38	S
<i>Oliva caldania</i> Duclos, 1835	47	S
Family Mitridae		
<i>Mitra scutulata</i> (Gmelin, 1791)	10,14,48	SH
<i>Mitra fraga</i> Quoy and Gaimard, 1833	26,44	SH
<i>Pterygia sinensis</i> (Reeve, 1844)	47	S
<i>Pterygia crenulata</i> (Gmelin, 1791)	47	S
"Ziba" <i>flammea</i> (Quoy and Gaimard, 1833)	38	S
Family Costellariidae		
<i>Vexillum vulpeculum</i> (Linnaeus, 1758)	2,7,11,17,20,23,24,33,41,53,54,56,59,61,62,64,67,68,70	S
<i>Vexillum pacificum</i> (Reeve, 1845)	6,7,37,47	S
<i>Vexillum microzonias</i> (Lamarck, 1811)	14	S
<i>Vexillum suluense</i> (Adams and Reeve, 1850)	62	S
<i>Vexillum mirabile</i> (A. Adams, 1853)	68,70	S
<i>Vexillum amanda</i> (Reeve, 1845)	68	S
<i>Vexillum unifasciatum</i> (Wood, 1828)	65	S
<i>Vexillum aureolineatum</i> Turner, 1988	36	S
<i>Vexillum radix</i> (Sowerby, 1874)	62	S
Family Cancellariidae		
<i>Cancellaria melanostoma westralis</i> Garrard, 1965	41	S

Taxa	Station number	Habitat
Family Volutidae		
<i>Melo amphora</i> (Solander, 1786)	2,4,7,11,13,14,16,20,23,25,31,34,48,44,47,51,54,56,59, 60,62,65	S
<i>Cymbiola oblita</i> (Smith, 1909)	2,7,10,11,14,16,17,20,23,25,36,37,38,54,56,57,58,59,61,62,68	S
<i>Amoria grayi</i> (Ludbrook, 1953)	7,14,25,41,48	S
<i>Amoria jamrachi</i> Gray, 1864	69	S
<i>Amoria ellioti</i> (Sowerby, 1864)	69	S
<i>Amoria praetexta</i> (Reeve, 1849)	38,41,47,54,65	S
Family Conidae		
<i>Conus geographus</i> Linnaeus, 1758	21,50	SH
<i>Conus glans</i> Hwass in Bruguière, 1792	3,8,18,21,22,29,40,44,46,58	SH
<i>Conus miliaris</i> Linnaeus, 1758	10	S
<i>Conus monachus</i> Linnaeus, 1758	19,45,51	SH
<i>Conus musicus</i> Hwass in Bruguière, 1792	13	SH
<i>Conus reductaspiralis</i> Walls, 1979	13,38,50,56,65,69,70	S
<i>Conus textile</i> Linnaeus, 1758	16,21,22,44,45,47,56,65,70	SH
<i>Conus vexillum</i> Gmelin, 1791	12,40,43	S
<i>Conus victoriae</i> Reeve, 1843	4,7,9,10,19,23,25,38,41,45,47,48,51,70	S
<i>Conus trigonus</i> Reeve, 1848	20,23,25,38,45	SH
<i>Conus novaehollandiae</i> Adams, 1853	1,38,47,48,51,69	SH
<i>Conus spectrum</i> Linnaeus, 1758	6,16,23,25,51,56,68	S
<i>Conus suturatus</i> Reeve, 1844	47	S
<i>Conus lividus</i> Hwass in Bruguière, 1792	43	S
<i>Conus dorreensis</i> Péron, 1807	45,48	S
Family Turridae		
<i>Turris crista</i> (Lamarck, 1816)	41	S
<i>Clavus unizonalis</i> (Lamarck, 1822)	48	S
<i>Eucithara</i> sp. (WAM S 27039)	54	S
<i>Turricula granobalteus</i> (Hedley, 1922)	41	S
Turrid sp. (WAM S 27036)	41	S
Family Terebridae		
<i>Terebra affinis</i> Gray, 1834	7	S
<i>Terebra marrowae</i> Bratcher and Cernohorsky, 1982	12,56	S
<i>Hastula rufopunctata</i> (Smith, 1877)	14	S
Family Pyramidellidae		
<i>Pyramidella</i> sp. (WAM S 12014)	6	S
<i>Pyramidella dolabrata</i> (Linnaeus, 1758)	68	S
<i>Pyramidella acus</i> (Gmelin, 1791)	68	S
<i>Pyramidella sulcata</i> (A. Adams, 1854)	68	S
<i>Colsyrnola sericea</i> Iredale, 1929	47	S
Family Architectonicidae		
<i>Heliacus variegatus</i> (Gmelin, 1791)	48	S
Subclass OPISTHOBRANCHIA		
Family Acteonidae		
<i>Pupa sulcata</i> (Gmelin, 1791)	54,62	S
Family Haminoeidae		
<i>Atys cylindricus</i> (Helbling, 1779)	10,38,41,51,59,62	S
<i>Atys semistriata</i> Pease, 1860	38	S
<i>Haminoea cymbalum</i> (Quoy and Gaimard, 1835)	38	AP
Family Bullidae		
<i>Bulla ampulla</i> Linnaeus, 1758	2,7,9,10,11,14,19,23,25,38,45,51,54,58,64,66,70	S
Family Hydatinidae		
<i>Micromelo undatus</i> (Bruguière, 1792)	7	S

Taxa	Station number	Habitat
Family Aglajidae		
<i>Chelidonura amoena</i> Bergh, 1905	4,26,27	SH
<i>Chelidonura hirundina</i> (Quoy and Gaimard, 1824)	6	SH
Family Aplysiidae		
<i>Aplysia parvula</i> Guilding in Mörch, 1863	16	SH
<i>Aplysia dactylamela</i> Rang, 1828	21	SH
<i>Dolabella auricularia</i> (Lightfoot, 1786)	47,54	SH
<i>Aplysia</i> sp. cf. <i>extrordinaria</i> Allan, 1932	38	SH
<i>Dolaberifera dolaberifera</i> Cuvier, 1817	38,40,45	SH
Family Elysiidae		
<i>Elysia</i> sp. (WAM S 12395)	44	AP
<i>Thuridilla</i> sp. (WAM S 1462)	3	SH
<i>Elysia ornata</i> (Swainson, 1840)	1,29	AP
<i>Elysiella pusilla</i> Bergh, 1872	45	AP
Family Gastropteriidae		
<i>Sagaminopteron psychedelicum</i> Carlson and Hoff, 1974	6	SH
Family Pleurobranchiidae		
<i>Pleurobranchus forskalii</i> (Rüppell and Leuckart, 1828)	6,45	SH
<i>Pleurobranchus martensi</i> (Pilsbry, 1896)	21,33	SH
<i>Pleurobranchus peroni</i> (Cuvier, 1804)	6	SH
Family Gymnodoridae		
<i>Gymnodoris</i> sp. (WAM S 1468)	4	SH
<i>Gymnodoris rubropapulosa</i> Brunckhorst, 1993	4,50	SH
<i>Gymnodoris</i> sp. cf. <i>citrina</i> (WAM S 12013, S 12018, S 12030, S 12035)	6,12,16,19,59	SH
Family Hexabranchiidae		
<i>Hexabranchus sanguineus</i> (Rüppell and Leuckart, 1829)	7,12,38,44,45	SH
Family Polyceriidae		
<i>Nembrotha purpureolineata</i> O'Donoghue, 1924	30,31,33	SH
<i>Nembrotha kubaryana</i> Bergh, 1877	46	SH
<i>Nembrotha lineolata</i> Bergh, 1905	40	SH
<i>Tambja gracilis</i> Bergh, 1877	65	SH
Family Dorididae		
<i>Aphelodoris</i> sp. (WAM S 1469, S 12043)	4,26,40,44,45,50,53	SH
<i>Discodoris</i> cf. <i>boholiensis</i> Bergh, 1877	4,12,20,50	SH
<i>Discodoris lilacina</i> (Gould, 1852)	1,7,11,45,51	IH
<i>Jorunna funebris</i> (Kelaart, 1858)	4,17,24	SH
<i>Platydorid scabra</i> (Cuvier, 1804)	31	IH
cf. <i>Jorunna</i> sp. (WAM S 12057)	31	SH
<i>Asteronotus cespitosus</i> (Hasselt, 1824)	6,19,20,28,45,54,66	IH
<i>Halgerda brycei</i> Fahey and Gosliner, 2001	60,67	SH
<i>Thordissa villosus</i> (Alder and Hancock, 1864)	3	AA
<i>Trippa ossesa</i> (Kelaart, 1859)	32	SH
Red dorid sp. (WAM S 12409)	53	AP
Discodorid sp. (WAM S 12399)	40	SH
Dorid sp. in <i>Callyspongia</i> (WAM S 12412)	58	AA
Dorid sp. (WAM S 12056)	33	AA
Family Chromodorididae		
<i>Chromodoris westraliensis</i> (O'Donoghue, 1924)	4,15,26,27,43,67,69	SH
<i>Hypselodoris</i> sp. (WAM S 1472)	4	SH
<i>Hypselodoris</i> sp. (WAM S 1463, S 12025, S 12403)	4,15,27,33, 50,55,57,65	SH
<i>Hypselodoris</i> cf. <i>carnea</i> (Bergh, 1889)	33	SH
<i>Chromodoris</i> sp. (WAM S 12038)	22	SH

Taxa	Station number	Habitat
<i>Chromodoris</i> sp. (WAM S 12617)	37	SH
<i>Risbecia</i> sp. cf. <i>tyroni</i> (Garrett, 1873)	1,33,37,58	SH
<i>Glossodoris atomarginata</i> (Cuvier, 1804)	1,3,12,19,27,37,44,56,60	SH
<i>Chromodoris</i> cf. <i>africana</i> Eliot, 1904	3,8,15	SH
<i>Chromodoris coei</i> (Risbec, 1956)	4,15,21,26,67	SH
<i>Chromodoris</i> cf. <i>magnifica</i> (Quoy and Gaimard, 1832)	4	SH
<i>Chromodoris striatella</i> Bergh, 1877	48	IH
<i>Chromodoris lineolata</i> (van Hasselt, 1824)	6,31,42	SH
<i>Glossodoris rufomarginata</i> (Bergh, 1890)	19,22	SH
<i>Chromodoris verrieri</i> (Crosse, 1875)	16	SH
<i>Mexichromus mariei</i> (Crosse, 1872)	33,55	SH
<i>Hypselodoris whitei</i> (Adam and Reeve, 1850)	16,18,32	SH
<i>Chromodoris colemani</i> Rudman, 1982	4,15	SH
<i>Chromodoris tinctoria</i> (Rüppell and Leuckart, 1828)	61,64	SH
<i>Chromodoris</i> cf. <i>tinctoria</i> complex (Rüppell and Leuckart, 1828)	37,61	SH
<i>Chromodoris kuniei</i> Pruvot-Fol, 1930	50	SH
<i>Risbecia</i> sp. (WAM S 12396)	37	SH
<i>Glossodoris cincta</i> (Bergh, 1888)	46,58	SH
<i>Chromodoris fidelis</i> (Kelaart, 1858)	40	SH
<i>Ceratosoma trilobatum</i> (J.E. Gray, 1827)	45,51	SH
<i>Ceratosoma tenue</i> Abraham, 1876	48,51	SH
<i>Ceratosoma magnifica</i> (Eliot, 1910)	45	IH
Family Dendrodorididae		
<i>Dendrodoris albobrunnea</i> Allan, 1933	4,22,49	SH
<i>Dendrodoris dennisoni</i> (Angas, 1864)	45,54	IH
Family Phyllidiidae		
<i>Phyllidia coelestis</i> (Bergh, 1869)	1,3,4,8,13,15,18,20,21,22,24,27,32,36,43,44,50,52,56,57,60,63	SH
<i>Phyllidia elegans</i> Bergh, 1869	3,4,8,46,67	SH
<i>Phyllidia varicosa</i> Lamarck, 1801	13,15,18,33,36,52,56,58,60	SH
<i>Phyllidiella pustulosa</i> (Cuvier, 1804)	1,3,4,8,13,15,18,21,22,24,27,29,32,33,36,39,44,50,52,53,56,57,58,60,63,64,67,69	SH
<i>Phyllidia ocellata</i> Cuvier, 1804	1,3,4,13,18,27,33,36,43,49,50,52,53,57,60,64,65,67	SH
<i>Phyllidia exquisita</i> Brunckhorst, 1993	3,13,50	SH
<i>Phyllidia babai</i> Brunckhorst, 1993	69	SH
Family Glaucidae		
<i>Moridilla</i> sp. (WAM S 12031)	17	SH
<i>Ptaeolidea ianthina</i> (Angas, 1864)	3,6,17,21,33,43,55	SH
<i>Phylloidesmium crypticum</i> Rudman, 1981	31	AA
<i>Phylloidesmium poindimiei</i> (Risbec, 1828)	4,6,16	AA
<i>Moridilla brockii</i> Bergh, 1888	48	SH
Family Flabelliniidae		
<i>Flabellina exoptata</i> Gosliner and Willan, 1991	4,15,33,40,65,67	SH
<i>Flabellina rubrolineata</i> (O'Donoghue, 1929)	15,26,27	SH
<i>Cuthona sibogae</i> (Bergh, 1905)	26,27,33	SH
Family Dotidae		
<i>Lomanotus</i> sp. (WAM S 12400)	41	AA
Family Bornellidae		
<i>Bornella anguilla</i> Johnson, 1893	8,43	SH
<i>Bornella stellifera</i> (Adams and Reeve in Adams, 1848)	22,25,37	SH
SUBCLASS PULMONATA		
Family Siphonariidae		
<i>Siphonaria zelandica</i> Quoy and Gaimard, 1833	4,7,9,14,17,20,25,28	IH

Taxa	Station number	Habitat
Family Ellobiidae		
<i>Cassidula</i> cf. <i>nucleus</i> (Gmelin, 1791) (WAM S 30245)	10	M
<i>Melampus</i> sp. (WAM S 30246)	10,28	M
Family Onchidiidae		
<i>Onchidium</i> sp. A (WAM S 13911)	2,7,14,17,25,54	M
<i>Onchidium</i> sp. D (WAM S 13912)	31	M
CLASS BIVALVIA		
SUBCLASS PROTOBRANCHIA		
Family Nuculidae		
<i>Nucula</i> ? <i>superba</i> Hedley, 1902 (WAM S 18446)	17,30,55,61,62,67,69	S
Subclass PTERIOMORPHIA		
Family Arcidae		
<i>Anadara</i> (<i>Anadara</i>) <i>antiquata</i> (Linnaeus, 1758)	7,14,20,23,25,35,38,54,70	S
<i>Anadara</i> (<i>Cunearca</i>) <i>rotundicostata</i> (Reeve, 1843)	30	S
<i>Anadara</i> (<i>Scapharca</i>) ? <i>rufescens</i> (Reeve, 1844) (WAM S 18388)	8, 10,12,20,30,56,57,69	S
<i>Anadara</i> (<i>Tegillarca</i>) <i>granosa</i> (Linnaeus, 1758)	2 (long dead)	S
<i>Arca ventricosa</i> Lamarck, 1819	1,2,3,4,6,7,8,10,12,17,18,20,21,22,23,24,25,26,28,29,30,32,33, 35,36,37,39,40,44,46,49,50,53,54,56,57,58,59,60,63, 64,65,67,68,70	SH
<i>Barbatia</i> (<i>Acar</i>) <i>plicata</i> (Dillwyn, 1817)	23,35,37,48,49,55,56,67,69	SH
<i>Barbatia</i> (<i>Acar</i>) sp. (WAM S 18348)	32	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) <i>amygdalumtostum</i> (Röding, 1798)	3,4,8,9,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,28, 29,31,33,35,36,37,44,47,49,52,54,58,60,63,66,70	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) ? <i>coma</i> (Reeve, 1844) (WAM S 18365)	2,10,11,23,59,62	SH
<i>Barbatia</i> (<i>Barbatia</i>) ? <i>helblingii</i> Bruguière, 1789 (WAM S 18405)	14,8,10,11,24,32,47,49,50,61,64,67,70	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) <i>foliata</i> (Forskål, 1775)	9,11,12,15,17,20,23,28,30,31,33,53,54,55,61,63,69	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) ? <i>obliquata</i> (Wood, 1828) (WAM S 18398)	7	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) ? <i>parvivillosa</i> (Iredale, 1939) (WAM S 18367)	14	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) sp. 1 (WAM S 18371)	12,23,33,37,46,49,54	SH,IH
<i>Barbatia</i> (<i>Barbatia</i>) sp. 2 (WAM S 30230)	65	SH,IH
<i>Barbatia</i> (<i>Calloarca</i>) <i>tenella</i> (Reeve, 1843)	2,10,23,30,35,51	SH,IH
<i>Trisidos semitorta</i> (Lamarck, 1819)	11,30,41,61	S
Family Noetiidae		
<i>Arcopsis afra</i> (Gmelin, 1791)	2,10,17,23,28,30,34,35,37,38,45,47,51,59	SH,IH
<i>Striarca</i> sp. (WAM S 18401)	2	SH
Family Glycymerididae		
<i>Glycymeris dampierensis</i> Matsukuma, 1984	12,14,25,37,38,41,44,45,55,56,57,61,63,65, 67,68,69, W coast of East Lewis I.	S
<i>Tucetona</i> ? <i>angusticosta</i> Lamprell and Whitehead, 1990 (WAM S 30231)	56,65,67	S
<i>Tucetona auriflua</i> (Reeve, 1843)	3,46,47,57,65,70	S
<i>Tucetona odhneri</i> Iredale, 1939	20,23,28,30,31,37,38,45,55,61,67	S
<i>Tucetona</i> sp. (WAM S 30232)	42,65	S
Family Mytilidae		
<i>Botula silicula</i> (Lamarck, 1819)	31,42,44	AA,SH
<i>Brachidontes</i> sp. (WAM S 18172)	6,7,10,17,28,31,38,39,51,59,66, W coast of East Lewis I.	SH,IH
<i>Gregariella</i> ? <i>otteri</i> (Iredale, 1939) (WAM S 30265)	31,49	SH
<i>Lithophaga</i> ? <i>lessepsiana</i> (Vaillant, 1865) (WAM S 27131)	60	AA,SH,IH

Taxa	Station number	Habitat
<i>Lithophaga ?malaccana</i> (Reeve, 1858) (WAM S 27128)	1,44,51,67	AA,SH,IH
<i>Lithophaga ?obesa</i> (Philippi, 1847) (WAM S 30234)	44	AA
<i>Lithophaga teres</i> (Philippi, 1846)	1,4,20,31,33,34,37,42,48,63,70	AA,SH,IH
<i>Lithophaga</i> sp. (WAM S 30235)	67	AA,SH,IH
<i>Modiolus albicostatus</i> Lamarck, 1819	11,20	SH
<i>Modiolus ?auriculatus</i> Krauss, 1848 (WAM S 18168)	4,6,25,31,38,48,59,62,67	SH
<i>Modiolus ?micropterus</i> Deshayes, 1836 (WAM S 30233)	54	SH
<i>Modiolus ?philippinarum</i> Hanley, 1843 (WAM S 18179)	6,7,9,13,16,17,23,28,37,47,49,54,55,61,66,70	SH
<i>Modiolus pulvillus</i> Iredale, 1939	54	S
<i>Musculus cumingianus</i> Reeve, 1857	44,55	AA,SH
<i>Musculus impactus</i> Hermann, 1782	18,67	AA,SH,
<i>Septifer bilocularis</i> (Linnaeus, 1758)	1,2,3,4,6,8,10,12,13,14,15,16,17,19,20,21,22,23,24,25, 26,27,28,29,30,32,33,34,35,36,38,39,40,42,43,44,46,47, 48,49,50,51,52,57,58,59,60,61,62,63,64,66,67,69	SH,IH
<i>Stavelia horrida</i> Dunker, 1856	1,14,23,33,45,48,55	M
Family Pinnidae		
<i>Atrina ?pectinata</i> (Linnaeus, 1758) (WAM S 30236)	30,42	S
<i>Atrina vexillum</i> (Born, 1778)	1,4,25,32,45,53,58	SH
<i>Atrina</i> sp. (WAM S 18006)	20,30,31	S
<i>Pinna bicolor</i> Gmelin, 1791	2,3,4,7,8,11,16,17,23,27,30,31,38,41,42,45,51,53,54, 56,57,59,62,64,65,69	S
<i>Pinna deltodes</i> Menke, 1843	4,9,11,12,15,16,17,18,21,26,27,31,32,39,40,43,44, 47,48,49,51,52,53,54,64,67	S
<i>Streptopinna saccata</i> (Linnaeus, 1758) (juv.)	8,32	SH
Family Pteriidae		
<i>Electroma alacorvi</i> (Dillwyn, 1817)	3,7,17,20,22,24,25,29,31	AA,SH
<i>Electroma physoides</i> (Lamarck, 1819)	41,68	AA,
<i>Electroma spadicea</i> (Dunker, 1852)	17,21,58,64,65	AA,
<i>Pinctada albina</i> (Lamarck, 1819)	2,4,7,8,9,11,12,14,16,17,19,20,23,24,25,28,29, 31,33,35,37,42,43,54,62,63	SH
<i>Pinctada ?maculata</i> (Gould, 1850) (WAM S 18466)	7,47	SH
<i>Pinctada margaritifera</i> (Linnaeus, 1758)	1,3,13,15,18,21,24,26,27,29,32,33,35,40,47	SH
<i>Pinctada maxima</i> (Jameson, 1901)	23,24,32,36,39,40,44,47,49,51,53,55,57,59,60,61,65	S
<i>Pteria lata</i> (Gray, 1845)	15,26,27,52,56,65	AA,SH
<i>Pteria penguin</i> (Röding, 1798)	15,27,33,52,56,69	AA,SH
Family Isognomonidae		
<i>Crenatula modiolaris</i> Lamarck, 1819	29	AA,SH
<i>Isognomon ephippium</i> (Linnaeus, 1758)	2,23,29,733,54,66	IH
<i>Isognomon isognomum</i> (Linnaeus, 1758)	1,3,4,8,10,11,12,13,15,16,18,19,20,22,23,24,25,28,29,31,33,35, 38,39,40,42,43,44,46,49,50,51,52,53,57,58,59,60,63,64,67,69	SH,IH
<i>Isognomon legumen</i> (Gmelin, 1790)	1,2,3,4,6,7,8,10,13,14,15,17,18,20,25,34,39,40,44,45,46,48, 49,50,51,52,53,57,58,59,60,63,64,65,66,67,70	SH,IH
<i>Isognomon ?perna</i> (Linnaeus, 1767) (WAM S 18452)	6,17,26,61,64	SH,IH
Family Malleidae		
<i>Malleus alba</i> Lamarck, 1819	23,30	S
<i>Malleus malleus</i> (Linnaeus, 1758)	1,4,7,8,10,11,13,14,15,18,19,20,22,24,26,29,30,31,32,33,34	SH
<i>Malleus regula</i> (Forskål, 1775)	32,44,45,49,51,54,55,59,60,62,63	SH
<i>Vulsella vulsella</i> (Linnaeus, 1758)	20,52,54	AA,SH
Family Pectinidae		
<i>Amusium balloti</i> (Bernardi, 1861)	55,56	S
<i>Anachlamys flabellata</i> (Lamarck, 1819)	22,30,55,56,65,67,68,69	S
<i>Complicachlamys wardiana</i> Iredale, 1939	4,8,10,12,13,16,17,18,21,22,23,27,32,33, 36,41,44,45,46,47,53,55,57,61,65,67,70	SH,IH
<i>Coralichlamys madreporarum</i> (Sowerby, 1842)	1,4,17,20,36,37,40,44,58,61	AA,SH

Taxa	Station number	Habitat
<i>Decatopecten radula</i> (Linnaeus, 1758)	1,8,12,13,14,16,18,20,21,24,25,29,31,33,35, 36,37,44,45,49,53,58,60,61,64,67	S
<i>Decatopecten strangei</i> (Reeve, 1852)	30,37,55,56,57	SH
<i>Excellichlamys spectabilis</i> (Reeve, 1853)	1,3,4,12,13,15,18,21,22,24,32,33,36,46,50,53,58,70	SH
<i>Gloripallium pallium</i> (Linnaeus, 1758)	40	SH
<i>Hemipecten forbesianus</i> Adams and Reeve, 1849	33,61,65,70	AA,SH
<i>Laevichlamys squamosa</i> (Gmelin, 1791)	1,4,8,12,17,20,21,22,24,32,33,36,44,45,49,53,58,64	SH
<i>Mimachlamys ?australis</i> (Sowerby, 1842)	7	SH
<i>Mimachlamys funebris</i> (Reeve, 1853)	3,4,7,16,26,31,33,37,41,42,44,45,47,55,56,57,61,65,67, 70	SH,IH
<i>Mimachlamys gloriosa</i> (Reeve, 1852)	7	SH
<i>Mimachlamys lentiginosa</i> (Reeve, 1853)	3,4,7,9,12,19,26,48,51,54,64,65,68,70	SH,IH
<i>Mimachlamys scabricostata</i> (Sowerby, 1915)	20,30,55	SH
<i>Scaechlamys</i> sp. (Lamarck, 1819)	1,44	SH
Pectinid sp. 1 (WAM S 18128)	30	S
Pectinid sp. 2 (WAM S 12424)	44	SH
Pectinid sp. 3 (WAM S 12423)	67	SH
Pectinid sp. 4 (WAM S 18146)	12	SH
Family Spondylidae		
<i>Spondylus albibarbatatus</i> Reeve, 1856	1,4,10,14,15,18,32,44,46,49,50,62	SH
<i>Spondylus asperrimus</i> Sowerby, 1847	13,36,62,64	SH
<i>Spondylus eastae</i> Lamprell, 1992	7,8,10,14,16,21,25,26,36,46,47,64	SH
<i>Spondylus echinatus</i> Schreibers, 1793	3,4,8,9,12,24,33,36,49,53,56,58,62,64	SH
<i>Spondylus heidkeae</i> Lamprell and Healy, 2001	57	SH
<i>Spondylus ocellatus</i> Reeve, 1856	36,42	SH
<i>Spondylus spinosus</i> Schreibers, 1793	12,36,43	SH
<i>Spondylus victoriae</i> Sowerby, 1843	57	SH
Family Plicatulidae		
<i>Plicatula australis</i> Lamarck, 1819	1,2,3,4,8,9,11,12,13,15,17,18,19,21,23,24,25,26, 27,28, 31,32,33,34,48	SH,IH
<i>P. chinensis</i> Mörch, 1853	14,30,49,56	SH,IH
<i>P. ?muricata</i> Sowerby, 1873 (WAM S 18806)	16,30	SH,IH
Family Anomiidae		
<i>Anomia</i> sp. (WAM S 18057)	1,36,57	SH,IH
<i>Monia ?deliciosa</i> Iredale, 1936 (WAM S 18056)	1,22,26,49,62	SH,IH
<i>Patro australis</i> (Gray, 1847)	4	SH,IH
Family Placunidae		
<i>Placuna lobata</i> Sowerby, 1871	11,30,55	S
Family Ostreidae		
<i>Alectryonella plicatula</i> (Gmelin, 1791)	27,48	AA,SH
<i>Dendostrea folium</i> (Linnaeus, 1758)	3,4,8,12,18,20,21,22,26,27,28,30,31,32,33,36,37,40,41, 43,44,46,48,50,52,53,55,57,58,62,64,67,69	?AA,SH
<i>Ostrea tuberculata</i> (Lamarck, 1819)	1,3,4,15,17,18,20,21,24,27,31,32,33,36,40,48,61,63,64,	AA,SH
<i>Ostrea</i> sp. (WAM S 30247)	3,17,18,19,23,26,27,32,41,42,47,51,55	SH,IH
<i>Saccostrea ?commercialis</i> (Iredale and Roughley, 1933) (WAM S 30248)	2,11,14,17,20,28,31,42,51,54,59,62, 66,W coast of East Lewis I.	IH,M
<i>Saccostrea cucullata</i> (Born, 1778)	7,11,14,17,28,38,42,51,59,62,66	IH, M
<i>Saccostrea echinata</i> (Quoy and Gainard, 1832)	11	IH,M
Family Gryphaeidae		
<i>Hyotissa hyotis</i> (Linnaeus, 1758)	1,3,13,15,18,21,22,24,26,27,32,40,43, 44,48,50,52,53,57,60,67,69	SH
<i>Hyotissa numisma</i> (Lamarck, 1819)	10	IH
<i>Hyotissa ?numisma</i> (Lamarck, 1819) (WAM S 30237)	18,26,27,45	SH
<i>Hyotissa</i> sp. (WAM S 30238)	1,3,4,8,15,18,21,22,26,27,32,33,36,40,43,44,46,48,50, 52,53,57,60,63,67,69	SH
Family Limidae		
<i>Ctenoides annulata</i> (Lamarck, 1819)	4,12,13,18,21,22,27,32,33,36,43,49,50,53,61,67	SH

Taxa	Station number	Habitat
<i>Lima lima</i> (Linnaeus, 1758)	3,12,13,17,21,22,26,36,53,55,65	SH
<i>Limaria basilanica</i> (A. Adams and Reeve, 1850)	1,4,6,8,14,15,16,17,21,26,31,33,41,44,49,54,58	SH
<i>Limaria</i> ? <i>fragilis</i> (Gmelin, 1791) (WAM S 18945)	DA1 Stn ?,53,58,67	SH
<i>Limatula</i> ? <i>japonica</i> (A. Adams, 1863) (WAM S 18086)	33,36,38,67,70	SH
Subclass HETERODONTA		
Family Lucinidae		
<i>Anodontia edentula</i> (Linnaeus, 1750)	11,14,35,54,62,W coast of East Lewis I.	S
<i>Anodontia pila</i> (Reeve, 1850)	7,11,14,20,35	S
<i>Austriella corrugata</i> (Deshayes, 1843)	31,54	S
<i>Cavatidens omissa</i> (Iredale, 1930)	2,7,11,20	S
<i>Ctena bella</i> (Conrad, 1834)	7,9,11,14,16,19,22,25,38,45,47,51,59,62,70	S
<i>Divalucina cumingi</i> (Adams and Angas, 1863)	2,8,20	S
<i>Divaricella ornata</i> (Reeve, 1850)	11,14,17	S
" <i>Lucina</i> " <i>reevei</i> Deshayes, 1863	19,37,47	S
Family Ungulinidae		
<i>Felaniella</i> (<i>Zemysia</i>) sp. 1 (WAM S 18061)	11,17,20,23,31,37,38,41,44,45,51,54,55,59,61,64,65, 66,67,69,W coast of East Lewis I.	S
<i>Felaniella</i> (<i>Zemysia</i>) sp. 2 (WAM S 18077)	14,31,56,70,W coast of East Lewis I.	S
? <i>Felaniella</i> sp. (WAM S 18059)	2,55,61	S
Family Chamidae		
<i>Chama fibula</i> Reeve, 1846	8,11,31,41,45,61,70	IH,SH,
<i>Chama lazarus</i> (Linnaeus, 1758)	12,32	SH
<i>Chama limbula</i> Lamarck, 1819	1,3,6,8,10,11,14,16,18,21,22,23,24,25,28,31,33,36,38, 44,47,48,49,54,55,63,70	IH,SH
<i>Chama pacifica</i> Broderip, 1834	3,4,54	SH
<i>Chama plinthota</i> Cox, 1927	4,8,12,15,18,24,43,65,70	IH,SH
<i>Chama pulchella</i> Reeve, 1846	23	SH
<i>Pseudochama</i> sp. (WAM S 18331)	4,6,7,12,14,16,17,18,21,22,23,27,31,32,42,44,45,54	IH
Family Carditidae		
<i>Begonia semiorbicularata</i> (Linnaeus, 1758)	1,3,4,12,17,21,22,24,26,31,36,44,47,48,49,61,62,63,64	SH
<i>Cardita incrassata</i> Sowerby, 1825	7,30,56,65,67,W coast of East Lewis I.	S
<i>Cardita</i> ? <i>crassica</i> Lamarck, 1819 (WAM S 18101)	20,25,28,31,48,70	SH
<i>Cardita</i> ? <i>marmorea</i> Reeve, 1843 (WAM S 18102)	7,11,14,20,23,25,28,31,38,45,51	IH
<i>Cardita muricata</i> Sowerby, 1832	1,4,6,7,10,12,15,16,17,21,24,31,33,36,37,40, 42,45,47,54,63,65,70	SH,IH
<i>Cardita preissii</i> Menke, 1843	10,23,30,56,59,62	SH
<i>Cardita</i> ? <i>variegata</i> Bruguière, 1792 (WAM S 18104)	1,30,31,48	SH,IH
<i>Venericardia cardiodes</i> (Reeve, 1843)	20,28,30,55	S
" <i>Venericardia</i> " sp. (WAM S 12425)	67	S
Family Cardiidae		
<i>Acrosterigma angulata</i> (Lamarck, 1819)	1,4,11,13,16,17,19,20,21,24,25,31,32,33, 36,38,44,45,49,53,58,60,61,64	S
<i>Acrosterigma dupuchense</i> (Reeve, 1845)	2,7,10,11,14,20,23,28,35,38,45,51,54,59,62,66,70	S
<i>Acrosterigma fultoni</i> (Sowerby, 1916)	20,23,28	S
<i>Acrosterigma reeveanum</i> (Dunker, 1852)	7,9,10,11,16,17,30,31,33,37,38,42,44,45, 47,48,49,51,54,55,56,58,64,65,68,69,70	S
<i>Acrosterigma</i> ? <i>transcendens</i> (Melvill and Standen, 1899) (WAM S 18199)	20,30,33	S
<i>Acrosterigma wilsoni</i> (Voskuil and Onverwagt, 1991)	12,20,28,42,44,47,49,53,55,56,57,61, 62,64,65,67,68,69,W coast of East Lewis I.	S
<i>Ctenocardia fornicata</i> (Sowerby, 1840)	65,67,68	S
<i>Fragum erugatum</i> (Tate, 1889)	2,11,14,23,25,31,38,41,42,45,51,54,56,59,62,66,68,70	S
<i>Fragum unedo</i> (Linnaeus, 1758)	2,11,23,38,54,59,62	S
<i>Fragum</i> (<i>Lunulicardia</i>) <i>retusum</i> (Linnaeus, 1767)	30,41,56,67,68	S
<i>Fulvia aperta</i> (Bruguière, 1789)	2,11,17,20,23,28,30,38,41,42,54,55,59,61,62,64	S

Taxa	Station number	Habitat
<i>Fulvia</i> sp. (WAM S 18205)	20,30,69	S
<i>Laevicardium attenuatum</i> (Sowerby, 1840)	56,57,58,65,68,69	
<i>Laevicardium biradiatum</i> (Bruguère, 1789)	33,41,55	S
<i>Nemocardium (Lyrocardium) lyratum</i> (Sowerby, 1840)	55,56,57,61,65,67,68,69,70	S
<i>Plagiocardium setosum</i> (Redfield, 1848)	8,11,31,66	S
<i>Vepricardium ?multispinosum</i> (Sowerby, 1838) (WAM S 18246)	8,30,35,57	S
Family Hemidonacidae		
<i>Hemidonax arafurensis</i> Ponder <i>et al.</i> , 1981	14,25,45, W coast of East Lewis I.	S
<i>Hemidonax donaciformis australiensis</i> (Reeve, 1844)	25,28	S
Family Tridacnidae		
<i>Tridacna maxima</i> (Röding, 1798)	2,6,7,8,10,12,13,14,16,17,18,19,20,22,25,28,31,35,37,38,42,43,45,46,47,48,51,54,59,60,66	SH,IH
<i>Tridacna squamosa</i> Lamarck, 1819	75,16,37,42,53,64	SH,IH
Family Trapeziidae		
<i>Trapezium bicarinatum</i> (Schumacher, 1817)	6,12,13,14,21,28,37,42,45,47,48,59,70	SH
<i>Trapezium sowerbyi</i> (Hidalgo, 1903)	21	SH
<i>Trapezium sublaevigatum</i> (Lamarck, 1819)	2,23,28	SH
Family Fimbriidae		
<i>Fimbria sowerbyi</i> (Reeve, 1841)	14,25	S
Family Mactridae		
<i>Lutraria australis</i> Reeve, 1854	1,4,20,24,30,31,33,37,47,54,55,56,64,65,70	S
<i>Mactra (Electomactra) antecedens</i> Iredale, 1930	8,11,14,16,17,23,28,31,37,47,54,61,64,66	S
<i>Mactra (Mactra) cumingii</i> Reeve, 1854	69	S
<i>Mactra (Mactra) explanata</i> Reeve, 1854	2,7,9,11,14,31	S
<i>Mactra (Mactra) incarnata</i> Reeve, 1854	57,65,67,69	S
<i>Mactra (Mactra) luzonica</i> Reeve, 1854	7,8,9,14,16,37,48,51,70	S
<i>Meropesta nicobarica</i> (Gmelin, 1791)	2,7,11,20,23,30,31	S
<i>Spisula (Oxyperas) coppingeri</i> (Smith, 1884)	31,55	S
<i>Spisula (Oxyperas) triangularis</i> (Lamarck, 1819)	55	S
Family Mesodesmatidae		
<i>Paphies (Atactodea) striata</i> (Gmelin, 1791)	25,28,38, W coast of East Lewis I.	S
Family Donacidae		
<i>Donax faba</i> Gmelin, 1791	7,25,28,38,45, W coast of East Lewis I.	S
Family Tellinidae		
<i>Exotica (Loxoglypta) assimilis</i> (Hanley, 1844)	23,36,38,42,51,59,62,67	S
<i>Leporimetis ?spectabilis</i> (Hanley, 1844) (WAM S 18008)	20,31,55,65	S
<i>Macoma (Psammacoma) ?candida</i> (Lamarck, 1818) (WAM S 18014)	31	S
<i>Psammotreta (Psammotreta) amboynensis</i> (Deshayes, 1854) (WAM S 18021)	2,30	S
<i>Tellina (Arcopaginula) inflata</i> Gmelin, 1791	11,20,23,28,41,69, W coast of East Lewis I.	S
<i>Tellina (Cyclotellina) remies</i> Linnaeus, 1758	2	S
<i>Tellina (Merisca) piratica</i> Hedley, 1918	2,23,54	S
<i>Tellina (Pharaonella) perna</i> Spengler, 1798	2	S
<i>Tellina (Pharaonella) rostrata</i> Linnaeus, 1758	23,54	S
<i>Tellina (Pinguitellina) casta</i> Hanley, 1844	59	S
<i>Tellina (Pistris) ?serricostata</i> Tokunaga, 1906 (WAM S 18025)	2,11,31	S
<i>Tellina (Pistris) capsoides</i> Lamarck, 1818	11	S
<i>Tellina (Pistris) gemonia</i> (Iredale, 1936)	11,20,30	S
<i>Tellina (Tellinella) radians</i> Deshayes, 1854	17,37,41,49,61,64,67,69	S
<i>Tellina (Tellinella) staurella</i> Lamarck, 1818	7,10,11,14,18,19,20,23,25,28,30,35,37,38,41,44,51,54,58,59,62,64,66,67	S

Taxa	Station number	Habitat
<i>Tellina (Tellinella) verrucosa</i> Hanley, 1844	67	
<i>Tellina (Tellinella) virgata</i> Linnaeus, 1758	2,11,23,38,51,54,59,62	S
<i>Tellina (Tellinides) ovalis</i> Sowerby, 1825	23	
<i>Tellina</i> sp. (WAM S 18037)	10	S
Family Psammobiidae		
<i>Asaphis (Asaphis) violascens</i> (Forskål, 1775)	2,7,9,11,14,20,23,28,38,40, 42,59,66,67,W coast of East Lewis I.	S
<i>Asaphis (Heteroglypta) contraria</i> (Deshayes, 1843)	43,49,55,62	S
<i>Gari (Dysmea) occidens</i> (Gmelin, 1791)	1,4,10,12,13,15,20,23,31,33,41,42,44,47,49, 50,53,58,60,61,64,65,70	S
<i>Gari (Gari) anomala</i> (Deshayes, 1858)	17,30,31,54,55,64	S
<i>Gari (Gari) lessoni</i> (Blainville, 1826)	2,16,31	S
<i>Gari (Gari) maculosa</i> (Lamarck, 1818)	8,30,31,33,36,37,41,42,44,47,49,50,55,61,64,65	S
<i>Gari (Gari) sibogai</i> Prashad, 1932	49,55,67,70	S
<i>Gari (Gari) ? pallida</i> (Deshayes, 1855) (WAM S 18411)	13,23	S
<i>Gari (Psammobia) amethysta</i> (Wood, 1815)	42,54,56,69	S
<i>Soletellina ? alba</i> (Lamarck, 1818) (WAM S 30243)	W coast of East Lewis I.	S
Family Solecurtidae		
<i>Azorinus ? minutus</i> (Dunker, 1861) (WAM S 18935)	11,20	M,S
Family Semelidae		
<i>Leptomya psittacus</i> Hanley, 1882	1,11,19,37,44,49,53,54,61,64,67	S
<i>Semele jukesii</i> (Reeve, 1853)	55,W coast of East Lewis I.	S
<i>Semele ? casta</i> A. Adams, 1853 (WAM S 18009)	11,20,33,38,41,54,56,59,62	S
<i>Semele ? sinensis</i> A. Adams, 1853 (WAM S 18275)	1,21,31,32,33,37,57,58,60	S
<i>Semele exarata</i> (A. Adams and Reeve, 1848)	17,21,30,31,48,54,65,67,70	S
<i>Semele</i> sp. (WAM S 18903)	2	S
Family Solenidae		
<i>Solen ? aureomaculatus</i> Habe, 1964 (WAM S 18436)	31,42	S
<i>Solen ? kajiyamai</i> Habe, 1964 (WAM S 18434)	2,67	S
<i>Solen ? roseomaculatus</i> Pilsbry, 1901 (WAM S 18433)	23,28,65,W coast of East Lewis I.	S
<i>Solen</i> sp. 1 – see Lamprell and Healy 1998 # 523 2 (WAM S 18435)	2,11	S
<i>Solen</i> sp. 2 (WAM S 18439)	17, 67	S
Family Pharidae		
<i>Cultellus attenuatus</i> Dunker, 1861	67,69	S
<i>Ensiculus cultellus</i> (Linnaeus, 1758)	2,11,23,55	S
Family Veneridae		
<i>Anomalocardia squamosa</i> (Linnaeus, 1758)	2,11,23,31,54	S
<i>Antigona (Antigona) chemnitzii</i> (Hanley, 1844)	4,7,11,20,33,38,44,52,54,55,56,61,65	S
<i>Antigona (Antigona) lamellaris</i> Schumacher, 1817	20,30,56,57,67	S
<i>Antigona (Periglypta) resticulata</i> Sowerby, 1853	1,4,13,14,16,17,22,23,24,28,31,35,36,37,48,50, 52,53,55,58,63,64,65,67,70	S
<i>Callista impar</i> (Lamarck, 1818)	2,23,38,51,54,62	S
<i>Callista (Costacallista) planatella</i> (Lamarck, 1818)	12,54,56	S
<i>Callista (Striacallista) ? phasianella</i> (Deshayes, 1854) (WAM S 18973)	2,11,23,38,51,54,61,67	S
<i>Callista (Striacallista) ? roseotincta</i> (Smith, 1885) (WAM S 30240)	41,55,56,61,67	S
<i>Circe ? nana</i> Melvill, 1898 (WAM S 30241)	59	S
<i>Circe nummulina</i> (Lamarck, 1818)	2,11,51,54,62	S
<i>Circe scripta</i> (Linnaeus, 1758)	1,11,20,30,31,54,55,56,67	S
<i>Circe sulcata</i> Gray, 1838	41,51	S
<i>Circe tumefacta</i> Sowerby, 1851	62	S
<i>Clementia papyracea</i> (Gray, 1825)	2,20,30,31,55,56	S
<i>Dosinia altenai</i> Fischer-Piette and Delmas, 1967	44	

Taxa	Station number	Habitat
<i>Dosinia deshayesii</i> A. Adams, 1855	65,69	S
<i>Dosinia histrio</i> Gmelin, 1791	20,23,31	
<i>Dosinia juvenilis</i> (Gmelin, 1791)	30,37,43,44,49,54,55,56,58,61,63,65,67,69,70	S
<i>Dosinia mira</i> Smith, 1885	20,54,61,62,W coast of East Lewis I.	
<i>Dosinia ?sculpta</i> (Hanley, 1845) (WAM S 18489)	11,17,23	S
<i>Dosinia tumida</i> (Gray, 1838)	28,31,42,55,56,61,62,W coast of East Lewis I.	S
<i>Dosinia</i> sp. (WAM S 18915)	2,23,38,59	
<i>Gafrarium menkei</i> (Jonas, 1846)	2,11,62	IH,S
<i>Gafrarium tumidum</i> Röding, 1798	2,10,31,38,59	IH,S
<i>Globivenus embrithes</i> (Melvill and Standen,1899)	1,12,13,16,17,20,21,22,28,31,33,36,37,40,44,46,47,49, 53,54,55,58,61,64,65,67,69,70	S
<i>Globivenus toreuma</i> (Gould, 1850)	3,4,8,12,13,15,16,21,22,26,27,32,36,40,42,43,44, 46,47, 50,52,53,55,58,67,70	S
<i>Gomphina undulosa</i> (Lamarck, 1819)	7,9,12,14,25	S
<i>Irus ?irus</i> (Linnaeus, 1758) (WAM S 18884)	1,6,11,15,17,38,48,59,64	SH,IH
<i>Lioconcha ?annettae</i> Lamprell and Whitehead, 1990 (WAM S 22016)	12	S
<i>Lioconcha fastigiata</i> (Sowerby, 1851)	12,20,23,24,28,30,31,38,40,41,42,44,54,55,56, 57,61,64,65,67,68,70	S
<i>Marcia hiantina</i> (Lamarck, 1819)	2	S
<i>Paphia crassisulca</i> (Lamarck, 1818)	11,12,23,56	S
<i>Paphia semirugata</i> (Philippi, 1847)	23,30,36,41,55,56,67,69,W coast of East Lewis I.	S
<i>Paphia undulata</i> (Born, 1780)	23,30	S
<i>Paphia gallus</i> (Gmelin, 1791)	30,55	S
<i>Pitar affinis</i> Gmelin, 1791)	11	S
<i>Pitar (Pitarina) citrinus</i> (Lamarck, 1818)	2,11,23,59,62,W coast of East Lewis I.	S
<i>Pitar (Pitarina) pellucidus</i> (Lamarck, 1819)	59	S
<i>Placamen berryi</i> (Gray, 1828)	51	S
<i>Placamen gravescens</i> (Menke, 1843)	2,11,23,38,51,59,W coast of East Lewis I.	S
<i>Sunetta contempta</i> Smith, 1891	7	S
<i>Sunetta perexcavata</i> Fulton, 1915	42,57,67	S
<i>Tapes ?deshayesii</i> (Hanley, 1844) (WAM S 30242)	2,8,16,38,44,67	S
<i>Tapes dorsatus</i> (Lamarck, 1818)	2,11,17,20,23,25,30,31,33,61	S
<i>Tapes literatus</i> (Linnaeus, 1758)	1,2,7,11,38,55,62	S
<i>Tapes platyptycha</i> Pilsbry, 1901	3,4,7,11,13,15,16,27,31,32,33,36,44,55	S
<i>Tapes sericeus</i> Matsukuma, 1986	1,2,4,10,11,16,17,19,23,24,25,28,31,33,37, 41,42,44,53, 55,56,57,63,64	S
<i>Tapes sulcarius</i> (Lamarck, 1818)	44,47,49,51,55,56,65,69,70	S
<i>Tapes (Ruditapes) variegatus</i> Sowerby, 1852	11,17,30,31,38,54,59,63,66,W coast of East Lewis I.	S
<i>Tawera laticostata</i> (Ohdner, 1917)	13,14,17,25,33	S
Family Petricolidae		
<i>Petricola ?divergens</i> (Gmelin, 1791) (WAM S 18726)	1,27,36,38,41,49	S
<i>Petricola (Petricola) sp.</i> (WAM S 18877)	17, 37,43,47,54,67	SH
<i>Petricola (Velargilla) sp.</i> (WAM S 30261)	42,54	S
Family Corbulidae		
<i>Corbula ?crassa</i> Reeve, 1843 (WAM S 18927)	6,11,12,20,25,30,33,37,47,55,62,64,W coast of East Lewis I.	S
<i>Corbula macgillivray</i> (Smith, 1885)	16,56	S
<i>Corbula ?tunicata</i> Hinds, 1843 (WAM S 18924)	14,30,65,69	S
Family Gastrochaenidae		
<i>Cucurbitula cymbium</i> (Spengler, 1783)	36	
<i>Gastrochaena (Gastrochaena) ?philippinensis</i> Deshayes, 1854 (WAM S 18728)	1,6,20,22,31,33,34,41,49,52,70	SH
<i>Gastrochaena ?tumidula</i> Thiele, 1930 (WAM S 18729)	1,4,11,31,42,52,63	SH
<i>Gastrochaena (Spengleri) ?plicatilis</i> Deshayes, 1854 (WAM S 30267)	1,4,48,49	SH
<i>Gastrochaena</i> sp. (WAM S 30266)	1	
Family Hiatellidae		
<i>Hiatella</i> sp. (WAM S 30239)	40,55,61	SH,AA,

Taxa	Station number	Habitat
Family Pholadidae		
<i>Parapholas ?quadrizonata</i> (Spengler, 1792) (WAM S 18936)	22,36,40,44,49,52,57,63,70	
<i>Jouannetia cumingi</i> (Sowerby, 1850)	37,43,44	SH
Subclass ANOMALODESMATA		
Family Thraciidae		
<i>Thracia imperfecta</i> (Lamarck, 1818) = <i>alciope</i> Angas, 1872	2,23,42	S
Family Laternulidae		
<i>Laternula ?valenciennesii</i> (Reeve, 1860) (WAM S 18933)	11,62	S
Family Clavagellidae		
<i>Brechites vaginiferus australis</i> (Chenu, 1843)	2,11,23,31,45,51,58,62,W coast of Lewis I.	S
Family Myochamidae		
<i>Myadora ?complexa</i> Iredale, 1924 (WAM S 18942)	23,54,55	S
Family Cleidothaeridae		
<i>Cleidothaerus</i> sp. (WAM S 30271) (juvs)	62,65	SH
Class SCAPHOPODA		
Family Dentaliidae		
<i>Fissidentalium</i> sp. (WAM S 30274)	62	S
Family Laevidentaliidae		
	2,11,23,38,51,59,62	S

Appendix 2 Detailed descriptions of survey stations (DA1/98 and DA3/99) as applicable to the mollusc survey (for locality and other details see Station Lists).

DA1/98/01

Bottom of sand, dead shell and coral rubble, bottom depth averaged 6.0 m, *Porites* bommies (largest 1.8 m high), smaller colonies of diverse corals, dead coral, algae; more algae and less coral towards beach, more sand over basement rock with sponges and less coral seaward.

DA1/98/02

Intertidal mud and muddy sand flats off sandy beaches and rocky points, mangles (*Avicennia* and *Rhizophora*) above rocks.

DA1/98/03

Bottom of silty sand, bottom depth averaged 9.0 m, dissected edge of reef flat with reef top at 4.6 m, rock boulders and coral bommies.

DA1/98/04

Bottom of silty sand, bottom depth averaged 11.0 m, coral and rock bommies rising 1.0–3.0 m above bottom.

DA1/98/05

Intertidal reef (no specific mollusc sampling at this station).

DA1/98/06

Intertidal reef sampled at high water (water depth from 2.5–3.3 m), rock platform with shallow gutters parallel to shore, silty sand and few flat rocks in gutters.

DA1/98/07

Intertidal sandy beach and muddy sand flat protected by offshore reef, exposed rocky point and boulders.

DA1/98/08

Intertidal reef at high tide with surface at 2.5 m and pools with silty sand to 5.5 m, abrupt reef edge with spur and groove formation and sandy bottom between 7.7–9.0 m.

DA1/98/09

Sand over basement rock at 4.0 m, abundant brown algae (*Dictyota*, *Sargassum*, etc.), slight depressions in rock containing sand, rubble and rocks, strong current of turbid water.

DA1/98/10

Intertidal beach rock and muddy gravel below mangal (*Avicennia* and *Rhizophora*) and above muddy sand flat with limestone rocks.

DA1/98/11

Intertidal muddy sand flat with mangal (mainly *Avicennia*, few *Rhizophora*) above, and increasing dead coral lumps below.

DA1/98/12

Bottom of silty sand, depth between 4.7–6.5 m; dead and living coral, coral slabs, short algal turf.

DA1/98/13

Rock pavement between 8.5–9.0 m, dead and living coral with sand and shell rubble in pockets.

DA1/98/14

Intertidal sand flat, dead coral boulders with attached brown algae, fewer green and coralline algae.

DA1/98/15

Rock bottom from 7.9–19.3 m, steps of varied widths with vertical to undercut rises, luxuriant coral growth.

DA1/98/16

Flat bottom of sand rubble and rocks, bottom depth from 3.0 m, little live coral, much brown algae.

DA1/98/17

Intertidal silty sand with shell and coral rubble and some rocks near rocky point, dead and living corals, soft corals, gorgonians, compound ascidians, etc.

DA1/98/18

Sandy bottom with coral bommies, bottom depth from 11.2 to approximately 13.0 m.

DA1/98/19

Flat pavement rock with coral rock slabs, dead and living coral, algal turf with corallines and some green algae, turbid water from 2.0 m depth.

DA1/98/20

Intertidal flat of loose dead and living coral (mainly fungiids, with fewer small colonies of *Pocillopora* and faviids), sandy mud and little coral below low water spring tidal level, with very soft mud in places.

DA1/98/21

Coral bommies at 11.8 m with silty sand in hollows, mainly living corals.

DA1/98/22

Flat bottom with coral rubble and rocks at 4.9 m with *Porites* bommies, tabular and staghorn *Acropora* species.

DA1/98/23

Intertidal flat of very muddy sand, dead coral rocks increasing to landward, with fewer seaward, many sponges.

DA1/98/24

Flat bottom of silty sand with shell and coral rubble and living and dead coral slightly sloping from 4.9 m, algal turf and coralline algae on rocks.

DA1/98/25

Exposed intertidal flat of coarse sand with large ripple marks, some shell and coral rubble; adjoining is a flat of dead coral rocks and silty sand.

DA1/98/26

Gradual stepped slope from 17.0–27.0 m of bare basalt encrusted with coralline algae, many soft corals, gorgonians, sponges and hard corals.

DA1/98/27

Flat pavement at 14.7 m, with low live and dead coral colonies, gorgonians, hydroids and soft corals; turbid water.

DA1/98/28

Moderately steep intertidal shore of rocky points and sandy beach with mangal of *Avicennia* above and muddy sand to seaward.

DA1/98/29

Flat bottom at 4.0 m with live coral (staghorn and foliose *Acropora* and other groups), silty sand, some *Porites* bommies to 1.5 m high, and some brown algae.

DA1/98/30

Flat bottom at 11.0 m with very fine silty sand and shell grit, sponges and solitary ascidians, water very turbid.

DA1/98/31

Intertidal flat of very silty sand and coral and igneous rocks, dense extensive mangal of *Avicennia* with deep mud.

DA1/98/32

Rock bottom at 11.7 m with little sand, dead and living corals, soft corals and algal turf.

DA1/98/33

Gently sloping basement rock from 7.2 m with silt and shell and coral rubble, with scattered hard and soft corals, sponges and gorgonians and algal turf.

DA1/98/34

Unofficial station (no mollusc survey).

DA1/98/35

Shallow area (1.0 m) live and dead coral and sand with shell and coral rubble.

DA3/99/36

Limestone pavement at 6.0–14.0 m, with sand between low ridges, live branching, tabular and massive corals, some dead coral.

DA3/99/37

Sand, rubble and dead coral on pavement rock at ~ 3.0 m, biota dominated by brown algae with some live tabular corals.

DA3/99/38

Intertidal and shallow subtidal sandy flat, with coral rubble, dead coral and rocks increasing shoreward; algal turf.

DA3/99/39

Hard bottom at 15.0–20.0 m, large boulders with abundant cemented bivalves, few corals and other cnidarians, sandy patches between boulders.

DA3/99/40

Sloping rock reef at ~ 6.0–9.0 m, dissected at seaward edge with sandy floors to grooves at ~ 14.0 m, mainly soft and hard corals and cemented bivalves on rock walls of grooves.

DA3/99/41

Sloping sandy bottom from 1.0 to ~ 4 m off shallow rock and live coral reef.

DA3/99/42

Intertidal survey of station DA3/99/41, with exposed rock reef with coarse sand, rubble and coral and rock boulders, intertidal sand surrounding reef.

DA3/99/43

Flat pavement rock from ~ 12.0–16.0 m, with number and size of boulders and coral bommies increasing with depth, cemented bivalves on sides of boulders.

DA3/99/44

Shallow rock bottom at ~ 2.0 m with *Porites* bommies on sand and coral rubble bottom at ~ 6.0 m depth, coral colonies increasing shoreward with cemented bivalves on vertical surfaces of rock or dead coral.

DA3/99/45

Intertidal sand flat with algal covered boulders, patches of sea grasses in deeper areas.

DA3/99/46

Limestone reef flat at 3.0 m edged with spur and groove formation, some sand, rubble and dead coral slabs in

grooves at ~ 10.0 m, live corals mainly on vertical sides of grooves.

DA3/99/47

Sand overlying pavement rock at ~ 5.0 m, brown algae and coral colonies.

DA3/99/48

Wide intertidal rock pavement with dead coral and limestone rocks and shallow pools, abundant green and red algae, living and dead coral colonies

DA3/99/49

Rock and coral reef at ~4.0 m, with sandy patches and abundant and diverse corals, sandy bottom becomes siltier seaward to 9.0 m.

DA3/99/50

Rock bottom sloping from 16.0–20.0 m, seaward edge dissected and with corals and cemented bivalves on vertical faces, many large *Porites* bommies adjacent, giving way to sandy bottom sloping to 20.0 m.

DA3/99/51

Wide intertidal muddy sand flats offshore from narrow mangal (*Avicennia*) and reef flat with shallow pools off rocky shore, algal dominated hard substrata.

DA3/99/52

Rock substrate from 12.0–20.0 m, breaking up seaward and giving way to sandy bottom, abundant hard and soft corals, cemented bivalves and other attached forms on rock, few molluscs in soft substratum.

DA3/99/53

Rock substrate at 5.0 m covered with sand and rubble, with slope to ~ 7.0 m. Large *Porites* bommies, some other hard corals, much soft coral and gorgonians, water very turbid, algae increasing inshore.

DA3/99/54

Wide intertidal sandy mud flat off rocky shore and mangal at S end of large bay, abundant and diverse molluscs on and in soft substratum.

DA3/99/55

Bottom of coarse sand covering flat pavement rock at 17.0 m, "sponge garden" with many gorgonians and some hard and soft corals, abundant infaunal bivalves, strong current of very turbid water.

DA3/99/56

Undulating pavement rock at ~ 10.0 m, with silty sand and rubble between very low ridges, many gorgonians and sponges on ridges, molluscs abundant and diverse, strong current of turbid water.

DA3/99/57

High energy area of rock substratum at ~ 8.0–13.0 m, deep crevices floored with mobile coarse sand, hard and soft corals and cemented bivalves on vertical rock faces, some sand-dwelling bivalves.

DA3/99/58

Shallow subtidal sand with some rubble at ~ 3.0 m, with rock and coral reef, diverse hard corals, moderate diversity of hard and soft substratum molluscs.

DA3/99/59

Intertidal sand and rubble flat seaward of narrow mangal, sand more silty towards mangal, less so near rocky points, high diversity and abundance of hard and soft substratum molluscs.

DA3/99/60

Bay with shallow rock and coral reef sheltering sandy lagoon, diverse and abundant hard corals, particularly *Pavona*, abundant molluscs (with limited diversity) particularly in and around *Pavona*.

DA3/99/61

Flat bottom at ~ 4.5 m covered with sand, rubble and some dead coral slabs, much brown algae particularly *Dictyota*, with little coral except for area of low *Porites* colonies, molluscs relatively diverse but not abundant, water turbid.

DA3/99/62

Intertidal muddy sand flat in bay with rocky points, landward of the flat is a fairly deep mangal of *Avicennia*, *Rhizophora* and *Bruguiera*. Abundant and fairly diverse molluscs.

DA3/99/63

Rock and coral reef from ~ 2.0–5.0 m, with diverse hard corals including *Porites* bommies in deeper areas, shallow rocks with algal turf.

DA3/99/64

Subtidal sand over pavement rock at ~ 5.0 m, with hard and soft corals; more rocks and algae inshore backed by deep mangal, abundant and diverse molluscs.

DA3/99/65

Undulating pavement rock at ~ 13.0–15.0 m with sand and rubble between low ridges, a “sponge garden” with many gorgonians and some small colonies of hard and soft corals, mollusc diversity high, infaunal species abundant.

DA3/99/66

Intertidal mangal with tidal creek, relatively low abundance and diversity of molluscs and other groups.

DA3/9967

Sloping pavement rock at ~ 17.5–20.0 m, with little rubble between low ridges, low-growing sponges and gorgonians with some large *Porites* bommies and small colonies of other hard corals, some species of cemented and of infaunal bivalves abundant.

DA3/99/68

Subtidal sand plain at 6.5 m, relatively high diversity of infaunal bivalves, high abundance of echinoids, some green and brown algae.

DA3/99/69

Rock boulders covering gas pipeline rising to 15.0 m above sand plain at ~ 18.0 m, relatively few small colonies of hard corals, abundant cemented bivalves, diverse bivalves on and in sand substratum.

DA3/99/70

Limestone pavement at ~ 6.0 m with covering of sand and rubble, some algae and small colonies of hard corals, moderate diversity and abundance of cemented and infaunal mollusc species.

