

## Part 4

# Molluscs of Ashmore Reef and Cartier Island

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### Abstract

A total of 433 mollusc species is recorded from Ashmore Reef and Cartier Island, compared with 279 at Scott and Seringapatam Reefs and 261 at Rowley Shoals.

### Background and discussion

The Ashmore Reef expedition was the third in a series made by the Western Australian Museum to isolated reefs on the outer continental shelf off northwestern Australia. Earlier surveys were Rowley Shoals in 1982, Scott Reef and Seringapatam Reef in 1984. Results of these surveys are contained in Wells (1986) and Wells and Slack-Smith (1986). There is also a limited list of molluscs from Seringapatam Reef in Wilson (1985). The present report compares the results of the Ashmore Reef survey with data from these other reefs.

Molluscs were more diverse at Ashmore Reef/Cartier Island than at either Rowley Shoals or Scott Reef/Seringapatam Reef. A total of 433 species was collected, substantially above the 261 found at Rowley Shoals and 279 at Scott Reef (Wells and Slack-Smith 1986). Part of the reason was undoubtedly that the survey was longer, 12 collecting days compared to 10 at Scott Reef and 8 at Rowley Shoals. However on surveys such as these, after the initial surge in number of species added in the first few days relatively few new species are collected on following days. Evidence of this is the fact that Mrs T. Bratcher and Mrs B. Dilworth, both experienced private collectors, recorded only 13 species in a week at Rowley Shoals that were not collected on the 1982 Western Australian Museum survey. The increased diversity thus primarily reflects differences in the faunas which is probably due to greater habitat diversity at Ashmore Reef compared to Rowley Shoals and Scott Reef.

As was demonstrated with the earlier surveys the fauna of the offshore coral reefs, including Ashmore is substantially different from that found on the continental coastline of Western Australia. Of the total of 581 mollusc species collected on the three surveys (Rowley Shoals, Scott Reef, and Ashmore Reef) 121, or 21% have not been recorded along the Western Australian continental coastline. As pointed out before (Wells and Slack-Smith 1986; Wells 1986) the difference is more substantial than even this figure might suggest as some of the very common species on the offshore reefs have been recorded only a few times on the continental coastline.

There is a substantial overlap in the distribution of molluscs on the reef systems. Of the 581 species collected 314 were found on only one reef, 126 were on two, 75 on three, and 66 on four (this calculation counts Seringapatam separately from Scott Reef). Many of the 314

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species found on only one reef occurred at only a single station and thus could only have been listed for a single reef. If the species collected at three or more stations at Ashmore Reef are examined the close relationship between the various offshore platforms is demonstrated. Of the 183 species in this category 36 occurred only at Ashmore Reef, 45 on two reefs, 44 on three, and 58 on all four.

The fauna of the offshore reefs can be considered by class. The overwhelming majority of species (449, or 77.3%) were gastropods, with bivalves of secondary importance (120 species, or 20.7% of the total). Only three chiton species and nine species of cephalopods were collected on the three trips; no scaphopods were found.

Indonesian fishermen fish the Ashmore Reef area heavily for trochus and clams. Only a few living *Tectus niloticus* and one living *Tridacna gigas* were found on the reef. *Hippopus hippopus* was the most abundant of the giant clams and hundreds of freshly dead shells were found in areas fished by the Indonesians.

In the earlier reports (Wells 1986; Wells and Slack-Smith 1986) the absence of gastropod families, especially volutes, known to have direct development without a planktonic larval stage was commented upon. Three species of volutes were found at Ashmore Reef, with *Melo amphora* being common. Jon Singleton has also recently found *Aulicina nivosa* at Scott Reef.

#### Acknowledgements

C.W. Bryce participated in the survey, collected and photographed many of the species and identified some of the opisthobranchs. Mrs G.M. Hansen helped considerably with the identifications. Mrs S.M. Slack-Smith assisted with bivalve identifications. Mr L. Vail of the Northern Territory Museum loaned the molluscs collected by the Northern Territory Museum at Ashmore Reef. Mrs T. Bratcher and Mrs B. Dilworth collected a number of species at Rowley Shoals subsequent to the publication of the Rowley Shoals report that were not recorded by the 1982 Western Australian Museum expedition. I have examined all of these species. Several were new records for Western Australia and were generously donated to the Western Australian Museum. Mr Jon Singleton kindly provided notes on species he collected at Scott Reef.

#### References

- Wells, F.E. (1986). Zoogeographical affinities of prosobranch gastropods of offshore coral reefs in Northwestern Australia. *Veliger* 29: 191-199.
- Wells, F.E. and Slack-Smith, S.M. (1986). Part V. Molluscs. In: Berry, P.F. (Ed.). Faunal surveys of the Rowley Shoals, Scott Reef and Seringapatam Reef, North-western Australia. *Rec. West. Aust. Mus.*, Supl. 25: 41-57.
- Wilson, B.R. (1985). Notes on a brief visit to Seringapatam Atoll, North West Shelf, Australia. *Atoll Res. Bull.* 292: 83-100.

## List of Molluscs

## Key to symbols:

- Numbers = sampling stations (See Part 1, Figures 2 and 3 and Table 1)  
 o = species recorded from offshore atolls not known from the Western Australian continental coastline  
 B = species collected by T. Bratcher and B. Dilworth at Rowley Shoals that were examined and returned to them  
 BR = species collected at Rowley Shoals by T. Bratcher and B. Dilworth and donated to the W.A. Museum  
 JS = species collected by Jon Singleton at Scott Reef  
 + = previous records (see Wells and Slack-Smith 1986)  
 C = Cartier Island stations

|  | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|--|--------------------------------|-----------------------------|------------------|
| <b>CRYPTOPLACIDAE</b>                            |                                |                             |                  |
| <i>Cryptoplax</i> sp. 1                          | 12                             | +                           | +                |
| <i>Cryptoplax</i> sp. 2                          | 20                             | -                           | +                |
| <b>CHITONIDAE</b>                                |                                |                             |                  |
| <i>Chiton</i> sp.                                | -                              | -                           | +                |
| <b>HALIOTIDAE</b>                                |                                |                             |                  |
| <i>Haliotis asinina</i> Linnaeus, 1758           | 3,16                           | -                           | +                |
| o <i>Haliotis crebrisculpta</i> Sowerby, 1914    |                                | +                           |                  |
| <i>Haliotis ovina</i> (Gmelin, 1791)             | 18                             | +                           | +                |
| o <i>Haliotis planata</i> Sowerby, 1853          |                                |                             | +                |
| <i>Haliotis varia</i> Linnaeus, 1758             | 2,3,6,15,16,<br>20             | -                           | -                |
| <b>FISSURELLIDAE</b>                             |                                |                             |                  |
| <i>Diodora jukesii</i> (Reeve, 1849)             | 8                              | -                           | -                |
| <i>Emarginula</i> sp.                            | ?                              | -                           | -                |
| <i>Hemitoma panhi</i> (Quoy and Gaimard, 1934)   | 6                              | -                           | -                |
| <b>PATELLIDAE</b>                                |                                |                             |                  |
| <i>Patella flexuosa</i> (Quoy and Gaimard, 1834) | 3,4,16,C2                      | +                           | -                |
| <b>TROCHIDAE</b>                                 |                                |                             |                  |
| <i>Angaria delphinus</i> (Linnaeus, 1758)        | 2,3                            | +                           | +                |
| o <i>Cantharidus polychromus</i> Adams, 1853     | C2                             | -                           | -                |
| o <i>Chrysostoma paradoxum</i> (Born, 1780)      | 1,6,9                          | -                           | -                |
| <i>Clanculus atropurpureus</i> (Gould, 1849)     | 7,16                           | +                           | +                |
| <i>Clanculus</i> sp. (juv.)                      | -                              | +                           | -                |
| <i>Euchelus atratus</i> (Gmelin, 1791)           | 3,14,16                        | -                           | -                |
| <i>Euchelus instrictus</i> (Gmelin, 1791)        | +                              | -                           | -                |
| <i>Euchelus</i> sp.                              | 16                             | -                           | -                |
| <i>Liotina peronii</i> (Kiener, 1839)            | 6                              | -                           | -                |
| <i>Scutus granulatus</i> Blainville, 1819        | 3,6,16,20                      | -                           | -                |

|   | Ashmore<br>Reef/<br>Cartier I.     | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|---|------------------------------------|-----------------------------|------------------|
| <i>Tectus fenestratus</i> (Gmelin, 1791)    | 1,3,6,10,16,<br>20,C1              | -                           | -                |
| <i>Tectus niloticus</i> (Linnaeus, 1767)    | 3,4,5,6,8,<br>15,20                | +                           | +                |
| <i>Tectus pyramis</i> (Born, 1778)          | 5,6,8,13,<br>15,20,C2,C3           | +                           | +                |
| o <i>Tectus triserialis</i> (Lamarck, 1822) | 8                                  | -                           | +                |
| <i>Trochus histrio</i> Reeve, 1842          | 13,20                              | +                           | +                |
| <i>Trochus maculatus</i> Linnaeus, 1758     | 1,3,5,6,8,9,<br>15,16,18,20,<br>C2 | -                           | -                |
|   |                                    | +                           | +                |
| STOMATIDAE                                  |                                    |                             |                  |
| <i>Stomatella varia</i> (A. Adams, 1850)    | 6,13,15,20,<br>C1,C2               | -                           | -                |
| <i>Stomatia phymotis</i> (Helbling, 1779)   | -                                  | -                           | +                |
| TURBINIDAE                                  |                                    |                             |                  |
| o <i>Astraea rhodostoma</i> (Lamarck, 1822) | 4,6,8,10,13,<br>15,18,C3           | -                           | +                |
| <i>Turbo argyrostomus</i> Linnaeus, 1758    | 1,3,5,8,9,10                       | +                           | +                |
| <i>Turbo chrysostomus</i> Linnaeus, 1758    | 3,6,9,16,20<br>C1,C2               | +                           | +                |
| <i>Turbo petholatus</i> Linnaeus, 1758      | 1,6,10,15,16,<br>C1                | +                           | +                |
| <i>Turbo cf. radiatus</i> Gmelin, 1791      | 4,6,7,8,9,13                       | -                           | +                |
| NERITOPSIDAE                                |                                    |                             |                  |
| <i>Neritopsis radula</i> (Linnaeus, 1758)   | 1                                  | -                           | B                |
| NERITIDAE                                   |                                    |                             |                  |
| <i>Nerita albicilla</i> Linnaeus, 1758      | 2,3,C2                             | +                           | +                |
| <i>Nerita plicata</i> Linnaeus, 1758        | 14,16                              | +                           | +                |
| <i>Nerita polita</i> Linnaeus, 1758         | 2,14,16,<br>C2                     | +                           | +                |
| <i>Nerita squamulata</i> Le Guillou, 1841   | 14                                 |                             |                  |
| LITTORINIDAE                                |                                    |                             |                  |
| <i>Littorina undulata</i> Gray, 1839        | -                                  | +                           | +                |
| ARCHITECTONICIDAE                           |                                    |                             |                  |
| <i>Heliacus variegatus</i> (Gmelin, 1791)   | 18                                 | -                           | -                |
| <i>Philippia radiata</i> (Röding, 1798)     | -                                  | -                           | -                |
| MODULIDAE                                   |                                    |                             |                  |
| <i>Modulus tectum</i> (Gmelin, 1791)        | 2,16                               | +                           | B                |
| PLANAXIDAE                                  |                                    |                             |                  |
| <i>Planaxis sulcatus</i> (Born, 1780)       | 14                                 | -                           | -                |

|   | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|---|--------------------------------|-----------------------------|------------------|
| VERMETIDAE  |                                |                             |                  |
| Vermetid sp.  | 1                              | -                           | +                |
| CERITHIIDAE   |                                |                             |                  |
| <i>Cerithium alveolus</i> Hombron and<br>Jacquinot, 1854      | 3                              | -                           | +                |
| <i>Cerithium atomarginatum</i> Dautzenberg<br>and Bouge, 1933 |                                | +                           | +                |
| <i>Cerithium columna</i> Sowerby, 1831                        | 3,6,13,14,C1,<br>C2            | +                           | +                |
| <i>Cerithium echinatum</i> Lamarck, 1822                      | 4                              | +                           | +                |
| <i>Cerithium egenum</i> Gould, 1849                           | -                              | -                           | +                |
| <i>Cerithium nesioticum</i> Pilsbry and Vanetta, 1905         | 1,3,13,16                      | +                           | +                |
| <i>Cerithium nodulosus</i> Bruguière, 1792                    | 1,2,3,9,16,C2                  | +                           | +                |
| <i>Cerithium salebrosum</i> Sowerby, 1855                     | -                              | +                           | -                |
| <i>Cerithium trailli</i> (Sowerby, 1855)                      | -                              | +                           | -                |
| <i>Hypotrochus</i> sp.  | -                              | +                           | -                |
| <i>Pseudovertagus aluco</i> (Linnaeus, 1758)                  | 3                              | -                           | -                |
| <i>Rhinoclavis articulatus</i> (Adams and Reeve, 1850)        | 2,3,7,9,12,16                  | +                           | +                |
| o <i>Rhinoclavis asper</i> (Linnaeus, 1758)                   | 1,2,3,6,9,12,<br>14,16,C2      | +                           | +                |
| o <i>Rhinoclavis diadema</i> Houbriek, 1978                   | C2                             | -                           | -                |
| <i>Rhinoclavis fasciatus</i> (Bruguière, 1792)                | -                              | +                           | +                |
| <i>Rhinoclavis sinensis</i> (Gmelin, 1791)                    | 1,2,3,7,9,16,<br>20,C2         | +                           | +                |
| <i>Rhinoclavis vertagus</i> (Linnaeus, 1767)                  | 1,14                           | -                           | +                |
| <i>Clypeomorus bifasciata</i> (Sowerby, 1855)                 | 14                             | -                           | -                |
| o <i>Clypeomorus petrosa chemnitziana</i> (Wood, 1828)        | 14,C2                          | -                           | -                |
| TRIPHORIDAE   |                                |                             |                  |
| Triphorid sp.   | 13,C1                          | +                           | +                |
| EULIMIDAE   |                                |                             |                  |
| <i>Eulima</i> sp.   | 16                             | +                           | +                |
| <i>Thyca crystallina</i> (Gould, 1846)                        | 3                              | +                           | -                |
| <i>Stylifer</i> sp.   | -                              | -                           | +                |
| VANIKORIDAE   |                                |                             |                  |
| <i>Vanikoro cancellata</i> (Lamarck, 1822)                    | 2,10                           | -                           | +                |
| HIPPONICIDAE  |                                |                             |                  |
| <i>Antisabia foliacea</i> (Quoy and Gaimard, 1835)            | 6                              | -                           | -                |
| <i>Hipponix conicus</i> (Schumacher, 1817)                    | 3,13,16<br>12,16,20,C2         | +                           | +                |
| CALYPTRAEIDAE   |                                |                             |                  |
| <i>Cheilea equestris</i> (Linnaeus, 1758)                     | 3                              | -                           | -                |

|   | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Serिंगapa-<br>tam | Rowley<br>Shoals |
|---|--------------------------------|-----------------------------|------------------|
| <b>STROMBIDAE</b>                             |                                |                             |                  |
| <i>Lambis chiragra</i> (Linnaeus, 1758)       | 2,3,5,6,16,<br>20,C1,C2        | +<br>-                      | +<br>-           |
| <i>Lambis lambis</i> (Linnaeus, 1758)         | 3,5,6,10,16,<br>20             | +<br>-                      | -<br>-           |
| <i>Lambis truncata</i> (Humphrey, 1786)       | -                              | +                           | -                |
| <i>Strombus aurisdianae</i> Linnaeus, 1758    | 12,16                          | -                           | -                |
| o <i>Strombus dentatus</i> Linnaeus, 1758     | 3,6,8,9,12,<br>15,C3,C4        | +<br>-                      | -<br>-           |
| <i>Strombus gibberulus</i> Linnaeus, 1758     | 1,3,14,16,C1                   | -                           | -                |
| o <i>Strombus haemastoma</i> Sowerby, 1832    | C3                             | -                           | -                |
| o <i>Strombus latissimus</i> Linnaeus, 1758   | -                              | +                           | -                |
| <i>Strombus lentiginosus</i> Linnaeus, 1758   | 1,2,3,6,9,10                   | +                           | +                |
| <i>Strombus luhuanus</i> Linnaeus, 1758       | 1,2,3,6,12,<br>16,19           | -<br>-                      | -<br>-           |
| o <i>Strombus micourceus</i> (Kira, 1959)     | 4,9,15,16                      | -                           | -                |
| <i>Strombus mutabilis</i> Swainson, 1821      | 3,6,9,14,16,<br>20,C2          | +<br>-                      | -<br>-           |
| o <i>Strombus pipus</i> (Röding, 1798)        | 13                             | -                           | -                |
| <i>Terebellum terebellum</i> (Linnaeus, 1758) | 3                              | -                           | -                |
| <b>NATICIDAE</b>                              |                                |                             |                  |
| o <i>Natica bougei</i> Sowerby, 1908          | -                              | +                           | -                |
| <i>Natica gualtierana</i> (Recluz, 1844)      | 1,14,16                        | +                           | -                |
| o <i>Natica onca</i> (Röding, 1798)           | 16,C1                          | -                           | -                |
| <i>Natica robillardi</i> Sowerby, 1843        | 14                             | -                           | -                |
| <i>Polinices melanostomus</i> (Gmelin, 1791)  | 1,2,9,14,16                    | -                           | -                |
| <i>Polinices powisiana</i> (Recluz, 1844)     | -                              | -                           | +                |
| <i>Polinices tumidus</i> (Swainson, 1840)     | 1,2,3,5,7,14                   | +                           | -                |
| <b>CYPRAEIDAE</b>                             |                                |                             |                  |
| <i>Cypraea annulus</i> Linnaeus, 1758         | 3,6,9,14,16,<br>20,C2          | +<br>-                      | -<br>-           |
| <i>Cypraea arabica</i> Linnaeus, 1758         | 3,16                           | +                           | +                |
| <i>Cypraea argus</i> Linnaeus, 1758           | 1,13,C1                        | -                           | +                |
| <i>Cypraea asellus</i> Linnaeus, 1758         | 9                              | +                           | -                |
| o <i>Cypraea becki</i> Gaskoin, 1836          | -                              | -                           | BR               |
| <i>Cypraea caputserpentis</i> Linnaeus, 1758  | 1,2,3,6,16,<br>C1,C2           | +<br>-                      | +<br>-           |
| <i>Cypraea carneola</i> Linnaeus, 1758        | 1,8,9,16,20                    | +                           | +                |
| <i>Cypraea caurica</i> Linnaeus, 1758         | 1,3,6,9,15,<br>16,20           | -<br>-                      | -<br>-           |
| o <i>Cypraea childreni</i> Gray, 1825         | -                              | BR                          | -                |
| <i>Cypraea chinensis</i> Gmelin, 1791         | -                              | -                           | +                |
| <i>Cypraea clandestina</i> Linnaeus, 1767     | 14                             | -                           | -                |
| <i>Cypraea contaminata</i> Sowerby, 1832      | 3                              | -                           | -                |
| <i>Cypraea cribraria</i> Linnaeus, 1758       | 1,20                           | -                           | -                |
| o <i>Cypraea depressa</i> Gray, 1824          | -                              | +                           | +                |

|   | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|---|--------------------------------|-----------------------------|------------------|
| <i>Cypraea eglantina</i> Duclos, 1833               | 2,16,20                        | -                           | -                |
| <i>Cypraea erosa</i> Linnaeus, 1758                 | 1,2,8,9,10,<br>13,16,20        | +                           | +                |
| <i>Cypraea errones</i> Linnaeus, 1758               | 1,3,14                         | -                           | -                |
| <i>Cypraea fimbriata</i> Gmelin, 1791               | 6,16,C1,C2                     | -                           | -                |
| <i>Cypraea helvola</i> Linnaeus, 1758               | 16,20                          | -                           | +                |
| <i>Cypraea hirundo</i> Linnaeus, 1758               | -                              | -                           | +                |
| <i>Cypraea histrio</i> Linnaeus, 1758               | 16,20                          | -                           | +                |
| <i>Cypraea isabella</i> Linnaeus, 1758              | 1,8,9,16,20,<br>C2             | +                           | +                |
| <i>Cypraea kieneri</i> Hidalgo, 1906                | 2                              | -                           | +                |
| <i>Cypraea labrolineata</i> Gaskoin, 1849           | 1,3,5,6,7,8,<br>16,C1          | +                           | +                |
| <i>Cypraea limacina</i> Lamarck, 1810               | 1                              | -                           | -                |
| <i>Cypraea lynx</i> Linnaeus, 1758                  | 1,3,6,8,16,<br>20,C2           | -                           | -                |
| <i>Cypraea moneta</i> Linnaeus, 1758                | 3,9,16,18                      | +                           | +                |
| <i>Cypraea nucleus</i> Linnaeus, 1758               | 2,20                           | -                           | +                |
| <i>Cypraea pallidula</i> Gaskoin, 1849              | 16                             | -                           | -                |
| <i>Cypraea poraria</i> Linnaeus, 1758               | -                              | -                           | +                |
| <i>Cypraea punctata</i> Linnaeus, 1771              | 18                             | -                           | -                |
| <i>Cypraea staphylaea</i> Linnaeus, 1758            | 1,2,11,16,20                   | +                           | +                |
| <i>Cypraea stolidula</i> Linnaeus, 1758             | 11                             | -                           | -                |
| <i>Cypraea talpa</i> Linnaeus, 1758                 | 13                             | +                           | -                |
| <i>Cypraea teres</i> Gmelin, 1791                   | 1,13                           | -                           | +                |
| <i>Cypraea testudinaria</i> Linnaeus, 1758          | -                              | -                           | +                |
| <i>Cypraea tigris</i> Linnaeus, 1758                | 3,8,16,20,C2                   | -                           | -                |
| o <i>Cypraea ursellus</i> Gmelin, 1791              | -                              | BR                          | -                |
| <i>Cypraea vitellus</i> Linnaeus, 1758              | 3,5,16,20,C3                   | +                           | +                |
| <i>Cypraea ziczac</i> Linnaeus, 1758                | 8                              | -                           | -                |
| <b>OVULIDAE</b>                                     |                                |                             |                  |
| o <i>Calpurneus lacteus</i> (Lamarck, 1810)         | -                              | -                           | +                |
| <i>Crenavolva</i> sp.                               | 11                             | -                           | -                |
| <i>Ovula ovum</i> (Linnaeus, 1758)                  | 10,16,20                       | -                           | -                |
| <i>Phenacovolva</i> sp.                             | -                              | +                           | -                |
| <i>Prosimnia semperi</i> (Weinkauff, 1881)          | 7                              | -                           | -                |
| <b>TRIVIIDAE</b>                                    |                                |                             |                  |
| <i>Trivia oryza</i> (Lamarck, 1810)                 | 16                             | -                           | +                |
| <b>LAMELLARIIDAE</b>                                |                                |                             |                  |
| <i>Chelynotus tonganus</i> (Quoy and Gaimard, 1832) | 1,2,3,8,9,16,<br>18,20         | -                           | +                |
| <b>CASSIDAE</b>                                     |                                |                             |                  |
| <i>Casmaria erinaceus</i> (Linnaeus, 1758)          | 3,4,8,9,13,<br>16,20,C1        | +                           | +                |

|  | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|--|--------------------------------|-----------------------------|------------------|
| <i>Casmaria ponderosa</i> (Gmelin, 1791)       | 1,C2                           | -                           | -                |
| <i>Cassis cornuta</i> (Linnaeus, 1758)         | 3,C1                           | +                           | +                |
| o <i>Cypraeacassis rufa</i> (Linnaeus, 1758)   | 16                             | +                           | -                |
| <i>Phalium bandatum</i> (Perry, 1811)          | 1                              | -                           | -                |
| TONNIDAE                                       |                                |                             |                  |
| <i>Malea pomum</i> (Linnaeus, 1758)            | 1,3,12,16,C2                   | +                           | +                |
| <i>Tonna canaliculata</i> (Linnaeus, 1758)     | 12,16                          | -                           | -                |
| <i>Tonna perdix</i> (Linnaeus, 1758)           | -                              | +                           | -                |
| CYMATIIDAE                                     |                                |                             |                  |
| <i>Charonia tritonis</i> (Linnaeus, 1758)      | Ashmore,<br>Cartier            | +                           | -                |
| o <i>Cymatium aquatile</i> (Reeve, 1844)       | -                              | +                           | +                |
| <i>Cymatium clandestinum</i> (Lamarck, 1816)   | -                              | +                           | +                |
| <i>Cymatium labiosum</i> (Wood, 1828)          | ?                              | -                           | -                |
| o <i>Cymatium lotorium</i> (Linnaeus, 1758)    | 15                             | -                           | -                |
| <i>Cymatium nicobaricum</i> (Röding, 1798)     | 1,2,13,16                      | -                           | -                |
| <i>Cymatium pileare</i> (Linnaeus, 1758)       | 16                             | -                           | -                |
| <i>Cymatium rebeculum</i> (Linnaeus, 1758)     | 16                             | +                           | +                |
| <i>Distorsio anus</i> (Linnaeus, 1758)         | 1,2,9                          | +                           | +                |
| <i>Gutturium muricinum</i> (Gmelin, 1791)      | 16                             | +                           | +                |
| <i>Septa gemmata</i> (Reeve, 1844)             | 1,3,6,16,20                    | +                           | +                |
| <i>Septa hepatica</i> (Röding, 1798)           | 8,13                           | -                           | +                |
| BURSIDAE                                       |                                |                             |                  |
| o <i>Bursa bufonia</i> Gmelin, 1791            | -                              | +                           | +                |
| o <i>Bursa cruentata</i> (Sowerby, 1841)       | Wilson                         | +                           | +                |
| <i>Bursa granularis</i> (Röding, 1798)         | 1,2,3,6,10,<br>13,16           | +                           | +                |
| o <i>Bursa lamarcki</i> (Deshayes, 1853)       | -                              | -                           | BR               |
| o <i>Bursa rhodostoma</i> (Sowerby, 1835)      | 6,8,10,13,C3                   | -                           | -                |
| <i>Tutufa bubo</i> (Linnaeus, 1758)            | -                              | +                           | +                |
| <i>Tutufa rubeta</i> (Linnaeus, 1758)          | 5,8,15                         | +                           | -                |
| COLUBRARIIDAE                                  |                                |                             |                  |
| o <i>Colubraria muricata</i> (Lightfoot, 1786) | 1                              | -                           | BR               |
| <i>Colubraria</i> sp.                          | -                              | 5                           | +                |
| MURICIDAE                                      |                                |                             |                  |
| <i>Chicoreus brunneus</i> (Link, 1807)         | 2,3,4,6,7,8,                   |                             |                  |
| Muricid sp.                                    | 9,16,C2                        | +                           | +                |
| o <i>Favartia brevicula</i> (Sowerby, 1834)    | 6,16                           | -                           | -                |
| THAIDIDAE                                      |                                |                             |                  |
| <i>Cronia ochrostoma</i> (Blainville, 1832)    | 2,6,13                         | -                           | -                |
| <i>Drupa grossularia</i> (Röding, 1798)        | 2,3,8,11,16                    | +                           | +                |
| <i>Drupa morum</i> (Röding, 1798)              | 2,3,16                         | -                           | -                |



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| <i>Drupa ricinus</i> (Linnaeus, 1758)                | 1,2,8,11,13,<br>16,18,20,C1            | +                            | +                |
| <i>Drupa rubusidaeus</i> Röding, 1798                | 1,3,4,6,9,15,<br>16                    | -                            | -                |
| <i>Drupella cornus</i> (Röding, 1798)                | 2,5,6,8,9,10,<br>13,15,18,20,<br>C2    | +                            | +                |
| o <i>Maculotriton serriale</i> (Deshayes, 1834)      | -                                      | +                            | +                |
| <i>Mancinella tuberosa</i> (Röding, 1798)            | 3,16,C2                                | +                            | +                |
| <i>Morulaanaxeres</i> (Kiener, 1835)                 | 13,C2                                  | -                            | -                |
| <i>Morula biconica</i> Blainville, 1832              | 1,4,6,7,8,9,<br>10,13,18,C2,<br>C3     | +                            | +                |
| o <i>Morula fiscella</i> (Gmelin, 1790)              | 1,3                                    | +                            | +                |
| <i>Morula granulata</i> (Duclos, 1832)               | 2,3                                    | +                            | +                |
| <i>Morula margariticola</i> (Broderip, 1832)         | 3,14,16,18,<br>C1,C2                   | -                            | -                |
| <i>Morula nodicostata</i> (Pease, 1868)              | 1,3,16                                 | +                            | +                |
| <i>Morula spinosa</i> (H. and A. Adams, 1835)        | C2                                     | +                            | +                |
| <i>Morula uva</i> (Röding, 1798)                     | C2,7                                   | +                            | +                |
| <i>Morula</i> sp.                                    | -                                      | -                            | +                |
| <i>Muricodrupa funiculus</i> (Wood, 1828)            | 6,14                                   | -                            | +                |
| o <i>Nassa sarta</i> (Bruguière, 1789)               | 3,9,20                                 | +                            | -                |
| <i>Thais aculeata</i> (Deshayes, 1844)               | C2                                     | +                            | -                |
| o <i>Thais armigera</i> (Link, 1807)                 | 2,3                                    | +                            | +                |
| CORALLIOPHILIDAE                                     |  |                              |                  |
| <i>Coralliophila costularis</i> (Lamarck, 1816)      | -                                      | -                            | +                |
| o <i>Coralliophila craticulatus</i> (Linnaeus, 1758) | -                                      | -                            | +                |
| <i>Coralliophila erosa</i> (Röding, 1798)            | 17                                     | -                            | -                |
| o <i>Coralliophila inflata</i> (Dunker, 1847)        | 1,13                                   | -                            | -                |
| <i>Coralliophila stearnsii</i> Pilsbry, 1895         | -                                      | +                            | -                |
| <i>Coralliophila violacea</i> (Kiener, 1836)         | 1,2,5,6,8,9,<br>15,18,C1               | +                            | +x               |
| <i>Quoyula madreporarum</i> (Sowerby, 1832)          | 13                                     | -                            | -                |
| <i>Rapa rapa</i> (Gmelin, 1791)                      | -                                      | -                            | +                |
| COLUMBELLIDAE  |  |                              |                  |
| <i>Mitrella albina</i> (Kiener, 1841)                | C2                                     | -                            | -                |
| o <i>Pyrene ocellata</i> (Link, 1807)                | 6                                      | -                            | -                |
| <i>Pyrene punctata</i> (Bruguière, 1789)             | 6,7,10,11,13                           | +                            | -                |
| <i>Pyrene testudinaria</i> (Link, 1807)              | 6,9,14,16,C1                           | -                            | +                |
| <i>Pyrene turturina</i> (Lamarck, 1822)              | 1,2,3,4,5,6,<br>8,9,10,13,15,<br>C1,C2 | +                            | -                |
| <i>Pyrene varians</i> Sowerby, 1832                  | 13,C2                                  | +                            | +                |

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| <b>BUCCINIDAE</b>                                  |                                |                             |                  |
| o <i>Cantharus iostomus</i> (Gray, 1834)           | 3,8,13,14,15,<br>20,C1         | -                           | -                |
| o <i>Cantharus pulcher</i> (Reeve, 1846)           | C1                             | -                           | -                |
| o <i>Cantharus undosus</i> (Linnaeus, 1758)        | 1,4,5,8,9,13,<br>15,16,20,C1   | +                           | +                |
| o <i>Engina alveolata</i> (Kiener, 1836)           | C1,18                          | -                           | +                |
| o <i>Engina lineata</i> (Reeve, 1846)              | 6,9,16                         | +                           | +                |
| o <i>Engina mendicaria</i> (Linnaeus, 1758)        | 3,14,C2                        | -                           | -                |
| o <i>Engina zatricum</i> Melville, 1893            | 6                              | -                           | +                |
| o <i>Engina zonalis</i> (Lamarck, 1822)            | 3,14,16,C1,C2                  | -                           | -                |
| o <i>Nassaria</i> sp.                              | -                              | +                           | -                |
| o <i>Pisania ignea</i> (Gmelin, 1791)              | C2                             | -                           | -                |
| <b>NASSARIIDAE</b>                                 |                                |                             |                  |
| o <i>Nassarius albescens</i> (Dunker, 1846)        | 6,13,16                        | +                           | +                |
| o <i>Nassarius acuticostus</i> (Montrouzier, 1864) | 14                             | -                           | -                |
| o <i>Nassarius arcularius</i> (Linnaeus, 1758)     | 1,14,16                        | -                           | -                |
| o <i>Nassarius gaudiosus</i> (Hinds, 1844)         | 2,16                           | +                           | +                |
| o <i>Nassarius graniferus</i> (Kiener, 1834)       | 1,11,13                        | -                           | -                |
| o <i>Nassarius horridus</i> (Dunker, 1847)         | 14                             | -                           | +                |
| o <i>Nassarius papillosus</i> (Linnaeus, 1758)     | 1,13,15                        | -                           | +                |
| o <i>Nassarius semisulcatus</i> (Rousseau, 1854)   | 14                             | -                           | -                |
| <b>FASCIOLARIIDAE</b>                              |                                |                             |                  |
| o <i>Dolicholatirus lancea</i> (Gmelin, 1791)      | 2                              | -                           | -                |
| o <i>Fusinus undatus</i> Gmelin, 1791              | -                              | +                           | -                |
| o <i>Latirolagena smaragdula</i> (Linnaeus, 1758)  | 1,3,8,13,C1,<br>C2             | +                           | +                |
| o <i>Latirus craticulatus</i> (Linnaeus, 1758)     | 6,8,13                         | +                           | +                |
| o <i>Latirus gibbulus</i> Gmelin, 1791             | 5                              | +                           | +                |
| o <i>Latirus nodatus</i> (Gmelin, 1791)            | 3,4,5,6,11,<br>13,C3           | +                           | +                |
| o <i>Latirus polygonus</i> (Gmelin, 1791)          | 6,13,C2                        | -                           | +                |
| o <i>Latirus</i> sp.                               | -                              | +                           | -                |
| o <i>Latirus turritus</i> (Gmelin, 1790)           | 4,8                            | +                           | +                |
| o <i>Peristernia fastigatum</i> (Reeve, 1847)      | -                              | +                           | +                |
| o <i>Peristernia incarnata</i> (Kiener, 1840)      | 3,16,C2                        | -                           | -                |
| o <i>Peristernia nassatula</i> (Lamarck, 1822)     | 3,10,16,20,C2                  | +                           | +                |
| o <i>Peristernia ustulatus</i> (Reeve, 1847)       | -                              | +                           | -                |
| o <i>Pleuroploca filamentosa</i> (Röding, 1798)    | 1,2,6,9,13,<br>15,16           | +                           | +                |
| o <i>Pleuroploca trapezium</i> (Linnaeus, 1758)    | 20                             | -                           | -                |
| <b>OLIVIDAE</b>                                    |                                |                             |                  |
| o <i>Oliva annulata</i> (Gmelin, 1791)             | 1,2,3,6,7,8,<br>9,11,15        | +                           | +                |
| o <i>Oliva caerulea</i> (Röding, 1798)             | 1,4,9,10,12,<br>16,C1          | +                           | -                |

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| <i>Oliva miniacea</i> (Röding, 1798)              | 1,16                           | -                           | -                |
| o <i>Oliva cf. panniculata</i> Duclou, 1835       | -                              | +                           | -                |
| o <i>Oliva paxillus</i> Reeve, 1850               | 7,10,C1,C2                     | -                           | -                |
| o <i>Oliva tessellata</i> Lamarck, 1811           | -                              | +                           | -                |
| o <i>Oliva textilina</i> Lamarck, 1811            | -                              | +                           | -                |
| o <i>Oliva tremulina</i> Lamarck, 1811            | 9                              | -                           | -                |
| MITRIDAE  |                                |                             |                  |
| o <i>Cancilla filaris</i> (Linnaeus, 1758)        | -                              | -                           | +                |
| <i>Cancilla gloriola</i> Cernohorsky, 1970        | 14                             | -                           | -                |
| <i>Cancilla incarnata</i> (Reeve, 1845)           | C3                             | -                           | -                |
| <i>Cancilla praestantissima</i> (Röding, 1798)    | 14                             | -                           | -                |
| o <i>Imbricaria olivaeformis</i> (Swainson, 1821) | C1                             | +                           | -                |
| <i>Imbricaria punctata</i> (Swainson, 1821)       | 3                              | +                           | +                |
| o <i>Mitra acuminata</i> Swainson, 1824           | -                              | +                           | +                |
| o <i>Mitra assimilis</i> Pease, 1862              | 1,6                            | -                           | BR               |
| o <i>Mitra coffea</i> Schubert and Wagner, 1829   | -                              | -                           | +                |
| <i>Mitra chrysalis</i> Reeve, 1844                | 3                              | -                           | +                |
| <i>Mitra chrysostoma</i> Broderip, 1836           | -                              | +                           | -                |
| <i>Mitra coronata</i> Lamarck, 1811               | 1,3,13                         | -                           | -                |
| o <i>Mitra cucumerina</i> Lamarck, 1811           | -                              | +                           | -                |
| o <i>Mitra decurtata</i> Reeve, 1844              | -                              | +                           | -                |
| <i>Mitra eremitarum</i> Röding, 1798              | 2,3,16                         | -                           | +                |
| <i>Mitra fraga</i> Quoy and Gaimard, 1833         | 6                              | -                           | -                |
| <i>Mitra imperialis</i> Röding, 1798              | -                              | +                           | -                |
| <i>Mitra litterata</i> Lamarck, 1811              | -                              | +                           | +                |
| <i>Mitra luctuosa</i> Adams, 1853                 | C1                             | -                           | -                |
| <i>Mitra mitra</i> (Linnaeus, 1758)               | 1,2,13,14,16,<br>20            | +                           | +                |
| <i>Mitra papilis</i> (Linnaeus, 1758)             | 3,16                           | -                           | -                |
| o <i>Mitra paupercula</i> (Linnaeus, 1758)        | 14,C2                          | +                           | +                |
| <i>Mitra retusa</i> Lamarck, 1811                 | -                              | +                           | B                |
| o <i>Mitra cf. rubritincta</i> Reeve, 1844        | -                              | +                           | -                |
| <i>Mitra stictica</i> (Link, 1807)                | 2,16                           | +                           | -                |
| <i>Neocancilla papilio</i> (Link, 1807)           | 1                              | +                           | +                |
| o <i>Pterygia dactylus</i> (Linnaeus, 1767)       | C2                             | -                           | +                |
| o <i>Pterygia nucea</i> (Gmelin, 1791)            | -                              | +                           | -                |
| <i>Pterygia scabricula</i> (Linnaeus, 1758)       | 1,3,16,20                      | -                           | -                |
| COSTELLARIIDAE                                    |                                |                             |                  |
| <i>Vexillum cadaverosum</i> Reeve, 1844           | 3,C1                           | +                           | -                |
| o <i>Vexillum cingulatum</i> Lamarck, 1811        | C1                             | -                           | -                |
| o <i>Vexillum consanguineum</i> (Reeve, 1845)     | -                              | +                           | -                |
| o <i>Vexillum coronatum</i> (Helbling, 1779)      | -                              | -                           | BR               |
| <i>Vexillum deshayesi</i> Reeve, 1844             | -                              | -                           | -                |
| <i>Vexillum discolorium</i> Reeve, 1845           | 6                              | -                           | -                |
| o <i>Vexillum exasperatum</i> Gmelin, 1791        | 3,14,16,C1                     | +                           | -                |
| o <i>Vexillum granosum</i> Gmelin, 1790           | -                              | +                           | B                |

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| <i>Vexillum leucodesmum</i> (Reeve, 1845)             | 6                              | -                           | -                |
| <i>Vexillum pacificum</i> (Reeve, 1845)               | 1,6,14                         | -                           | -                |
| <i>Vexillum patriarchalis</i> Gmelin, 1791            | 13                             | -                           | -                |
| <i>Vexillum</i> cf. <i>rosea</i> Broderip, 1836       | -                              | +                           | -                |
| <i>Vexillum sanguisugum</i> Linnaeus, 1758            | 16                             | +                           | -                |
| o <i>Vexillum semicostatum</i> Anton, 1939            | -                              | +                           | -                |
| <i>Vexillum semifasciatum</i> Lamarck, 1811           | -                              | +                           | -                |
| <i>Vexillum speciosum</i> (Reeve, 1844)               | 8                              | +                           | B                |
| o <i>Vexillum</i> cf. <i>turrigerum</i> (Reeve, 1845) | -                              | +                           | +                |
| <i>Vexillum unifascialis</i> (Lamarck, 1811)          | 8,13,15,19                     | -                           | -                |
| <i>Vexillum vulpecula</i> (Linnaeus, 1758)            | 1,16                           | -                           | -                |
| <i>Vexillum zelotypum</i> (Reeve, 1845)               | -                              | +                           | -                |
| VASIDAE   |                                |                             |                  |
| <i>Vasum ceramicum</i> (Linnaeus, 1758)               | 1,4,8,13,15,<br>16,20,C1,C2    | +                           | +                |
| o <i>Vasum turbinellum</i> (Linnaeus, 1758)           | 4,6,9,13,15,<br>16,20,C1,C2    | +                           | +                |
| HARPIDAE  |                                |                             |                  |
| <i>Harpa amouretta</i> Röding, 1798                   | .20                            | -                           | +                |
| VOLUTIDAE   |                                |                             |                  |
| <i>Melo amphora</i> (Solander, 1786)                  | 1,16                           | -                           | -                |
| <i>Aulicina nivosa</i> (Lamarck, 1804)                | 13                             | JS                          | -                |
| <i>Amoria praetexta</i> (Reeve, 1849)                 | 1,7,12,16                      | -                           | -                |
| TURRIDAE  |                                |                             |                  |
| o <i>Clavus lamberti</i> (Montrouzier, 1860)          | 13                             | -                           | -                |
| <i>Clavus</i> sp. 1                                   | 13                             | -                           | -                |
| <i>Clavus</i> sp. 2                                   | 7                              | -                           | -                |
| o <i>Daphnella botanica</i> Hedley, 1918              | -                              | -                           | +                |
| <i>Eucithara funiculata</i> (Reeve, 1846)             | C1                             | +                           | -                |
| o <i>Eucithara stromboides</i> (Reeve, 1846)          | 7,14                           | -                           | -                |
| o cf. <i>Eucyclotoma albomacula</i> Kay, 1979         | -                              | -                           | +                |
| o <i>Lienardia rubida</i> (Hinds, 1844)               | -                              | -                           | +                |
| o <i>Pseudodaphnella pulchella</i> (Pease, 1860)      | -                              | -                           | +                |
| o <i>Turridrupa acutigemmata</i> (E.A. Smith, 1877)   | 8                              | -                           | -                |
| o <i>Turridrupa bijubata</i> (Reeve, 1843)            | C2                             | -                           | -                |
| o <i>Turris babylonia</i> (Linnaeus, 1758)            | 13                             | -                           | -                |
| o <i>Turris spectabilis</i> (Reeve, 1843)             | 6                              | -                           | -                |
| <i>Xenoturris cingulifera</i> (Lamarck, 1822)         | 3                              | -                           | -                |
| Sp. 1   | -                              | +                           | +                |
| CONIDAE   |                                |                             |                  |
| o <i>Conus ammiralis</i> Linnaeus, 1758               | -                              | JS                          | -                |
| <i>Conus arenatus</i> Hwass in Bruguière, 1792        | 1,3,7,12,20                    | +                           | +                |
| o <i>Conus aureus</i> Hwass in Bruguière, 1792        | -                              | +                           | +                |

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| <i>Conus canonicus</i> Hwass in Bruguière, 1792     | -                                       | JS                          | -                |
| <i>Conus capitaneus</i> Linnaeus, 1758              | 2,3,8,9,13,<br>15,16                    | +                           | -                |
| <i>Conus catus</i> Hwass in Bruguière, 1792         | 1,3,16                                  | +                           | +                |
| <i>Conus ceylanensis</i> Hwass in Bruguière, 1792   | -                                       | -                           | +                |
| <i>Conus chaldeus</i> (Röding, 1798)                | C2,20                                   | +                           | +                |
| <i>Conus circumcissus</i> Born, 1778                | -                                       | JS                          | -                |
| <i>Conus coronatus</i> Gmelin, 1791                 | 1,2,3,15,16,<br>20,C2                   | +                           | +                |
| <i>Conus distans</i> Hwass in Bruguière, 1792       | 2,4                                     | +                           | +                |
| <i>Conus eburneus</i> Hwass in Bruguière, 1792      | 1,3,14,16,20,<br>C1                     | +                           | +                |
| <i>Conus ebraeus</i> Linnaeus, 1758                 | 2,3,14,16,C2                            | +                           | +                |
| o <i>Conus episcopus</i> Hwass in Bruguière, 1792   | 20                                      | -                           | -                |
| <i>Conus flavidus</i> Lamarck, 1810                 | 2,3,6,16,20,<br>C2                      | -                           | +                |
| <i>Conus frigidus</i> Reeve, 1848                   | 3,16                                    | -                           | -                |
| <i>Conus generalis</i> Linnaeus, 1767               | -                                       | JS                          | -                |
| <i>Conus geographus</i> Linnaeus, 1758              | 5,8                                     | -                           | -                |
| <i>Conus glans</i> Hwass in Bruguière, 1792         | 9                                       | -                           | +                |
| <i>Conus imperialis</i> Linnaeus, 1758              | 10,20,C2                                | +                           | +                |
| o <i>Conus legatus</i> Lamarck, 1810                | -                                       | +                           | -                |
| <i>Conus leopardus</i> Röding, 1798                 | C2                                      | +                           | +                |
| o <i>Conus litoglyphus</i> Hwass in Bruguière, 1792 | 3,10                                    | +                           | -                |
| o <i>Conus litteratus</i> Linnaeus, 1758            | 1,6,16,C2                               | +                           | -                |
| <i>Conus lividus</i> Hwass in Bruguière, 1792       | 1,2,6,9,16,<br>18,20                    | +                           | +                |
| <i>Conus luteus</i> Sowerby, 1833                   | -                                       | JS                          | JS               |
| <i>Conus magus</i> Linnaeus, 1758                   | 1,4,15,20,<br>C1,C2                     | +                           | +                |
| <i>Conus marmoreus</i> Linnaeus, 1758               | 1,3,4,5,6,8,<br>9,10,13,16,<br>20,C1,C2 | +                           | +                |
| o <i>Conus miliaris</i> Hwass in Bruguière, 1792    | 2,15,16,20                              | +                           | -                |
| <i>Conus monachus</i> Linnaeus, 1758                | 6,9,20                                  | -                           | -                |
| o <i>Conus moreleti</i> Crosse, 1858                | 15                                      | -                           | -                |
| o <i>Conus musicus</i> Hwass in Bruguière, 1792     | 2,8,11,20,C2                            | +                           | -                |
| <i>Conus mustelinus</i> Hwass in Bruguière, 1792    | 13                                      | -                           | -                |
| <i>Conus nussatella</i> Linnaeus, 1758              | 16                                      | -                           | -                |
| <i>Conus obscurus</i> Sowerby, 1833                 | -                                       | -                           | JS               |
| <i>Conus omaria</i> Hwass in Bruguière, 1792        | 3,6                                     | -                           | JS               |
| o <i>Conus parvulus</i> Link, 1807                  | 3,9                                     | -                           | -                |
| o <i>Conus pertusus</i> Hwass in Bruguière, 1792    | 10                                      | JS                          | JS               |
| <i>Conus planorbis</i> Born, 1778                   | 7,16                                    | -                           | -                |
| <i>Conus pulicarius</i> Hwass in Bruguière, 1792    | 1,3,7,10,13,<br>14,16,C1,C2             | +                           | +                |
| o <i>Conus quercinus</i> Solander, 1786             | 1,14                                    | +                           | -                |

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| <i>Conus rattus</i> Hwass in Bruguière, 1792    | 9,13,16,20                          | +                           | +                |
| <i>Conus scabriusculus</i> Dillwyn, 1817        | -                                   | JS                          | -                |
| <i>Conus spectrum</i> Linnaeus, 1758            | 16                                  | -                           | -                |
| <i>Conus sponsalis</i> Hwass in Bruguière, 1792 | 1,2,3,7,9,10,<br>13,16,20,C2,<br>C3 | +                           | +                |
| o <i>Conus stercusmuscarum</i> Linnaeus, 1758   | 16                                  | -                           | -                |
| <i>Conus striatus</i> Linnaeus, 1758            | 3,4,6,16,20,<br>C2                  | +                           | +                |
| <i>Conus sugillatus</i> Reeve, 1844             | 6,13                                | +                           | +                |
| o <i>Conus tenuistriatus</i> Sowerby, 1857      |                                     |                             | JS               |
| <i>Conus terebra</i> Born, 1778                 | 1,6,8                               | JS                          | -                |
| <i>Conus tessulatus</i> Born, 1780              | 1,2,3,7,13,<br>14,C3                | +                           | -                |
| <i>Conus textile</i> Linnaeus, 1758             | 3,10,13                             | JS                          | -                |
| o <i>Conus varius</i> Linnaeus, 1758            | 1,10,15,20                          | -                           | -                |
| <i>Conus vexillum</i> Gmelin, 1791              | 1,10,11,13,<br>16,20,C3             | +                           | -                |
| <i>Conus victoriae</i> Reeve, 1843              | 3,16                                | -                           | -                |
| o <i>Conus virgo</i> Linnaeus, 1758             | 6,16,C3                             | -                           | -                |
| <i>Conus vitulinus</i> Hwass in Bruguière, 1792 | 1,3,8,16,C2                         | +                           | +                |
| <b>TEREBRIDAE</b>                               |                                     |                             |                  |
| o <i>Hastula albula</i> (Menke, 1843)           | 1,3,7,12,16                         | +                           | -                |
| o <i>Hastula lanceata</i> (Linnaeus, 1767)      | 10                                  | -                           | -                |
| <i>Hastula strigilata</i> (Linnaeus, 1758)      | 7                                   | -                           | -                |
| <i>Terebra affinis</i> Gray, 1834               | 1,3,9,16,C1,<br>C2                  | +                           | +                |
| <i>Terebra areolata</i> (Link, 1807)            | C1                                  | +                           | -                |
| o <i>Terebra argus</i> (Hinds, 1807)            | 7,C2                                | -                           | -                |
| <i>Terebra babylonica</i> Lamarck, 1822         | 2                                   | -                           | -                |
| <i>Terebra chlorata</i> Lamarck, 1822           | 1,2,3,7,12,<br>16,C2                | -                           | -                |
| o <i>Terebra conspersa</i> Hinds, 1844          | C1                                  | -                           | -                |
| <i>Terebra crenulata</i> (Linnaeus, 1758)       | 2                                   | +                           | +                |
| <i>Terebra dimidiata</i> (Linnaeus, 1758)       | 1,C1,C2                             | -                           | +                |
| <i>Terebra felina</i> (Dillwyn, 1817)           | 2,3,9,12,16                         | +                           | +                |
| o <i>Terebra funiculata</i> Hinds, 1844         | 1                                   | -                           | -                |
| o <i>Terebra guttata</i> (Röding, 1798)         | 1,7                                 | +                           | -                |
| <i>Terebra maculata</i> (Linnaeus, 1758)        | 1,3,9,12,16,<br>20,C1               | +                           | +                |
| <i>Terebra nebulosa</i> (Sowerby, 1825)         | 12                                  | +                           | +                |
| <i>Terebra subulata</i> (Linnaeus, 1767)        | 1,14                                | -                           | -                |
| <i>Terebra undulata</i> Gray, 1834              | -                                   | +                           | -                |
| <b>ACTEONIDAE</b>                               |                                     |                             |                  |
| <i>Pupa sulcata</i> (Gmelin, 1791)              | 14,16                               | -                           | -                |
| <i>Pupa solidula</i> (Linnaeus, 1758)           | 14                                  | -                           | -                |

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| HYDATINIDAE  |                                |                             |                  |
| <i>Hydatina amplustre</i> (Linnaeus, 1758)                         | C2                             | -                           | -                |
| BULLIDAE   |                                |                             |                  |
| <i>Bulla ampulla</i> Linnaeus, 1758                                | -                              | +                           | -                |
| <i>Bulla vernicosa</i> Gould, 1859                                 | 1,12,14,C2                     | -                           | -                |
| <i>Bulla</i> sp.   | +                              | -                           | -                |
| ATYIDAE  |                                |                             |                  |
| <i>Atys naucum</i> (Linnaeus, 1758)                                | C1                             | -                           | -                |
| SCAPHANDRIDAE  |                                |                             |                  |
| <i>Cylichna</i> sp.  | -                              | -                           | +                |
| AGLAJIDAE  |                                |                             |                  |
| <i>Chelidonura amoena</i> Bergh, 1905                              | 2,8,9,13,20                    | +                           | -                |
| <i>Chelidonura hirundinina</i> (Quoy and<br>Gaimard, 1833)         | 16                             | -                           | -                |
| <i>Chelidonura pallida</i> Risbec, 1951                            | 7                              | -                           | -                |
| Aglajid sp. 1  | 1,2,3,5,14,16                  | -                           | -                |
| Aglajid sp. 2  | 14,16                          | -                           | -                |
| Aglajid sp. 3  | -                              | +                           | -                |
| Aglajid sp. 4  | -                              | -                           | +                |
| Aglajid sp. 5  | -                              | -                           | +                |
| PYRAMIDELLIDAE   |                                |                             |                  |
| <i>Otopleura cf. auriscati</i> (Holten, 1802)                      | 12,16,C2                       | -                           | -                |
| <i>Otopleura mitralis</i> A.Adams, 1855                            | 1                              | -                           | +                |
| <i>Otopleura</i> sp.   | C2                             | -                           | -                |
| <i>Pyramidella acus</i> (Gmelin, 1791)                             | C1                             | -                           | -                |
| <i>Pyramidella</i> sp.   | 1                              | -                           | -                |
| <i>Pyramidella terebellum</i> (Müller, 1774)                       | 1,14,16,C1                     | -                           | -                |
| <i>Pyramidella teres</i> (A.Adams, 1855)                           | 2,14,16                        | -                           | +                |
| Sp. 1  | -                              | -                           | +                |
| PLEUROBRANCHIDAE   |                                |                             |                  |
| <i>Berthellina citrina</i> (Rüppell and Leuckart,<br>1831)         | 1,9,16,20                      | -                           | -                |
| o <i>Pleurobranchus cf. forskali</i> Rüppell and<br>Leuckart, 1828 | 3                              | -                           | -                |
| <i>Pleurobranchus</i> sp. 1  | 5                              | -                           | -                |
| <i>Pleurobranchus</i> sp. 2  | 14                             | -                           | -                |
| ELYSIIDAE  |                                |                             |                  |
| <i>Elysia ratna</i> Marcus, 1965                                   | 2,7,8,15,16,<br>20             | -                           | -                |
| <i>Elysia</i> sp.  | 11,20                          | +                           | -                |

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| <b>HEXABRANCHIDAE</b>   |                                |                             |                  |
| <i>Hexabranchnus sanguineus</i> (Rüppell and<br>Leuckart, 1828) | 3,16                           | -                           | -                |
| <b>POLYCERIDAE</b>  |                                |                             |                  |
| <i>Robastra gracilis</i> (Bergh, 1877)                          | 1,8,15                         | -                           | -                |
| <i>Nembrotha cristata</i> Bergh, 1877                           | 17                             | -                           | -                |
| <i>Nembrotha</i> cf. <i>kubaryana</i> Bergh, 1877               | 16                             | -                           | -                |
| <i>Nembrotha</i> sp. 1  | 15                             | -                           | -                |
| <i>Nembrotha</i> sp. 2  | 7                              | -                           | -                |
| o <i>Thecacera picta</i> (Bergh, 1883)                          | C1                             | -                           | -                |
| <b>AEGIRIDAE</b>  |                                |                             |                  |
| o <i>Notodoris</i> cf. <i>minor</i> Eliot, 1904                 | 18                             | -                           | -                |
| <b>GYMNODORIDIDAE</b>   |                                |                             |                  |
| <i>Gymnodoris</i> cf. <i>okinawae</i> Baba, 1936                | 2                              | -                           | -                |
| <i>Gymnodoris</i> sp.   | 2                              | -                           | -                |
| <b>DORIDIDAE</b>  |                                |                             |                  |
| <i>Halgerda tessellata</i> (Bergh, 1880)                        | 20                             | -                           | -                |
| <i>Jorunna funebris</i> (Kelaart, 1858)                         | 1                              | -                           | -                |
| <i>Platydorid scabra</i> (Cuvier, 1804)                         | 1,3                            | -                           | -                |
| <i>Dorid</i> sp. 1  | 16                             | -                           | -                |
| <b>CHROMODORIDIDAE</b>  |                                |                             |                  |
| <i>Ceratosoma cornigerum</i> A.Adams and<br>Reeve, 1850         | 16                             | -                           | -                |
| o <i>Chromodoris</i> cf. <i>aspersa</i> (Gould, 1852)           | 16                             | -                           | -                |
| o <i>Chromodoris</i> cf. <i>varians</i> Pease, 1871             | 4                              | -                           | -                |
| <i>Chromodoris decora</i> (Pease, 1860)                         | 8                              | -                           | -                |
| <i>Hypselodoris daniellae</i> Kay and Young, 1969               | 8                              | -                           | -                |
| o <i>Miamira sinuata</i> (Hasselt, 1824)                        | 3                              | -                           | -                |
| <i>Chromodoris</i> sp. 1  | 2                              | -                           | -                |
| <i>Chromodoris</i> sp. 2  | -                              | +                           | -                |
| <i>Chromodoris</i> sp. 3  | -                              | -                           | +                |
| <i>Chromodoris</i> sp. 4  | -                              | -                           | +                |
| <i>Glossodoris</i> sp.  | -                              | +                           | -                |
| <b>DENDRODORIDIDAE</b>  |                                |                             |                  |
| <i>Dendrodoris nigra</i> (Stimpson, 1855)                       | 3,16                           | -                           | -                |
| <b>PHYLLIDIIDAE</b>   |                                |                             |                  |
| <i>Phyllidia</i> cf. <i>elegans</i> Bergh, 1869                 | 1,5,10,15,C1<br>C3             | +                           | -                |
| <i>Phyllidia</i> cf. <i>pustulosa</i> Cuvier, 1804              | 3,5,8,10,16                    | +                           | -                |
| o <i>Phyllidia</i> cf. <i>sereni</i> Risbec, 1956               | 1,3,7,16,C2                    | +                           | +                |
| <i>Phyllidia</i> cf. <i>varicosa</i> Lamarck, 1801              | 2                              | +                           | -                |



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| <i>Phyllidia</i> sp. 1                                     | -                              | +                           | -                |
| <i>Phyllidia</i> sp. 2                                     | 3                              | -                           | -                |
| <i>Phyllidiopsis striata</i> Bergh, 1889                   | -                              | +                           | -                |
| AEOLIDACEA   |                                |                             |                  |
| Sp. 1  | -                              | +                           | -                |
| GLAUCIDAE  |                                |                             |                  |
| <i>Pteraeolidea ianthina</i> (Angas, 1864)                 | 7                              | -                           | -                |
| ONCHIDIIDAE  |                                |                             |                  |
| <i>Onchidium</i> sp.                                       | 1,2,C2                         | +                           | +                |
| ARCIDAE  |                                |                             |                  |
| <i>Anadara antiquata</i> (Linnaeus, 1758)                  | 1,2,12,16                      | +                           | -                |
| <i>Arca avellana</i> Lamarck, 1819                         | 3,9,16,C2                      | -                           | +                |
| <i>Arca ventricosa</i> Lamarck, 1819                       | 3,5,7,8,10,<br>15,18,C3        | +                           | +                |
| <i>Barbatia amygdalumtostum</i> (Röding, 1798)             | 1,2,6,7,14                     | +                           | +                |
| <i>Barbatia helblingi</i> (Bruguière, 1792)                | C2                             | -                           | -                |
| <i>Barbatia pistachia</i> (Lamarck, 1819)                  | 9                              | -                           | -                |
| <i>Barbatia plicata</i> (Dillwyn, 1817)                    | 11                             | +                           | +                |
| <i>Barbatia tenella</i> (Reeve, 1844)                      | -                              | -                           | +                |
| o <i>Barbatia</i> sp.                                      |                                |                             | +                |
| GLYCYMERIDIDAE   |                                |                             |                  |
| <i>Glycymeris amboinensis</i> (Gmelin, 1791)               | 6,8,9,12                       | +                           | +                |
| MYTILIDAE  |                                |                             |                  |
| <i>Botula</i> cf. <i>fusca</i> (Gmelin, 1791)              | -                              | -                           | +                |
| <i>Lithophaga</i> cf. <i>nasuta</i> (Philippi, 1846)       | -                              | +                           | +                |
| <i>Lithophaga</i> sp.                                      | 1,16                           | -                           | -                |
| <i>Modiolus auriculatus</i> Krauss, 1848                   | 8,10                           | -                           | -                |
| <i>Septifer bilocularis</i> (Linnaeus, 1758)               | C4                             | +                           | -                |
| PINNIDAE   |                                |                             |                  |
| <i>Atrina pectinata</i> (Linnaeus, 1767)                   | -                              | -                           | +                |
| <i>Atrina vexillum</i> (Born, 1778)                        | 2                              | +                           | -                |
| <i>Pinna muricata</i> (Linnaeus, 1758)                     | 3,6,14,16,18                   | +                           | -                |
| <i>Streptopinna saccata</i> (Linnaeus, 1758)               | 3                              | +                           | +                |
| PTERIIDAE  |                                |                             |                  |
| <i>Electroma alacorvi</i> (Dillwyn, 1817)                  | -                              | -                           | +                |
| <i>Electroma</i> cf. <i>ovata</i> (Quoy and Gaimard, 1834) | -                              | +                           | -                |
| <i>Pinctada albina</i> (Lamarck, 1819)                     | -                              | -                           | +                |
| <i>Pinctada maculata</i> (Gould, 1850)                     | -                              | +                           | -                |
| <i>Pinctada margaritifera</i> (Linnaeus, 1758)             | 2,3,8,16,18,<br>C2             | +                           | +                |

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| <i>Pteria</i> sp.  | -                              | -                           | +                |
| <i>Pteria chinensis</i> (Leach, 1814)                                | -                              | +                           | -                |
| <i>Pteria penguin</i> (Röding, 1798)                                 | 2,4,6,8,10,<br>15,18           | -                           | -                |
| <b>ISOGNOMONIDAE</b>   |                                |                             |                  |
| <i>Isognomon isognomum</i> (Linnaeus, 1758)                          | 3                              | -                           | +                |
| <i>Isognomon legumen</i> (Gmelin, 1791)                              | 16                             | +                           | +                |
| <i>Isognomon</i> cf. <i>marsupialis</i> (Röding, 1798)               | 1,3                            | -                           | -                |
| <i>Isognomon perna</i> (Linnaeus, 1758)                              | -                              | +                           | +                |
| <b>PECTINIDAE</b>  |                                |                             |                  |
| o <i>Chlamys</i> cf. <i>cookei</i> Dall, Bartsch and<br>Rehder, 1938 | -                              | -                           | +                |
| <i>Chlamys funebris</i> (Reeve, 1853)                                | -                              | -                           | +                |
| <i>Chlamys pallium</i> (Linnaeus, 1758)                              | 6,13,C2                        | +                           | +                |
| <i>Chlamys speciosus</i> (Reeve, 1853)                               | -                              | -                           | +                |
| <i>Chlamys squamosus</i> (Gmelin, 1791)                              | 4,6,15                         | +                           | +                |
| <i>Pedum spondyloideum</i> (Gmelin, 1791)                            | -                              | -                           | +                |
| <i>Decatopecten mirifica</i> (Reeve, 1853)                           | 5,11                           | -                           | -                |
| <i>Semipallium erecta</i> Iredale, 1939                              | 2,16                           | -                           | -                |
| <i>Semipallium radalum</i> (Linnaeus, 1758)                          | 18                             | +                           | -                |
| <i>Semipallium spectabilis</i> (Reeve, 1853)                         | -                              | +                           | -                |
| <i>Semipallium tigris</i> (Lamarck, 1819)                            | -                              | -                           | +                |
| o <i>Semipallium</i> sp. 1   | -                              | -                           | +                |
| o <i>Semipallium</i> sp. 2   | -                              | -                           | +                |
| <b>SPONDYLIDAE</b>   |                                |                             |                  |
| <i>Spondylus ducalis</i> (Röding, 1798)                              | -                              | -                           | +                |
| o <i>Spondylus pacificus</i> Reeve, 1856                             | -                              | -                           | +                |
| <i>Spondylus</i> sp.   | 1,2,3,5,6,9,<br>13,16,C2       | +                           | -                |
| <b>PLICATULIDAE</b>  |                                |                             |                  |
| <i>Plicatula australis</i> (Lamarck, 1819)                           | 8,9,16                         | -                           | +                |
| <b>ANOMIIDAE</b>   |                                |                             |                  |
| <i>Anomia</i> sp. (juv.)   | -                              | -                           | +                |
| <b>LIMIDAE</b>   |                                |                             |                  |
| <i>Ctenoides annulata</i> (Lamarck, 1819)                            | 8,9                            | -                           | +                |
| <i>Lima fragilis</i> (Gmelin, 1791)                                  | 3,6,8,C1                       | +                           | +                |
| <i>Lima lima</i> (Linnaeus, 1758)                                    | 5,6,7,9,13,20                  | -                           | -                |
| <i>Lima</i> sp.  | -                              | +                           | -                |
| <b>GRYPHAEIDAE</b>   |                                |                             |                  |
| <i>Hytissa hyotis</i> (Linnaeus, 1758)                               | 2,3                            | +                           | +                |
| <i>Hytissa numisma</i> (Lamarck, 1819)                               | -                              | +                           | +                |

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| <b>OSTREIDAE</b>   |                                |                             |                  |
| <i>Lopha cristagalli</i> (Linnaeus, 1758)                  | 3,5                            | -                           | +                |
| <i>Ostrea</i> sp.  | 1,2,3                          | -                           | +                |
| <b>CHAMIDAE</b>  |                                |                             |                  |
| <i>Chama</i> cf. <i>iostoma</i> Conrad, 1837               | -                              | +                           | +                |
| <i>Chama lazarus</i> Linnaeus, 1758                        | 16                             | -                           | +                |
| <i>Chama pacifica</i> Broderip, 1835                       | -                              | -                           | +                |
| <i>Chama</i> sp.   | 1,4,16,18                      | -                           |                  |
| <b>LUCINIDAE</b>   |                                |                             |                  |
| <i>Anodontia</i> sp.                                       | 13                             | -                           | -                |
| <i>Codakia punctata</i> (Linnaeus, 1758)                   | 1,2,3,6,9,10                   | +                           | +                |
| <i>Ctena bella</i> (Conrad, 1837)                          | -                              | -                           | +                |
| <i>Linga</i> sp.   | -                              | -                           | +                |
| o <i>Wallucina gordonii</i> (Smith, 1886)                  | -                              | -                           | +                |
| <i>Wallucina</i> sp.                                       | -                              | -                           | +                |
| <b>LASAEIDAE</b>   |                                |                             |                  |
| ? <i>Rhadbornia</i> sp.                                    | -                              | -                           | +                |
| <b>GALEOMMATIDAE</b>                                       |                                |                             |                  |
| ? <i>Scintilla</i> sp.                                     | 13,15,16                       | +                           | -                |
| <b>FIMBRIIDAE</b>  |                                |                             |                  |
| <i>Fimbria fimbriata</i> (Linnaeus, 1758)                  | 1,12                           | +                           | +                |
| <b>CARDITIDAE</b>  |                                |                             |                  |
| <i>Beguina semiorbiculata</i> (Linnaeus, 1758)             | -                              | +                           | -                |
| <i>Cardita variegata</i> (Bruguère, 1792)                  | 2,6,8,11,18,                   | +                           | +                |
| <b>CARDIIDAE</b>   |                                |                             |                  |
| <i>Acrosterigma alternatum</i> (Sowerby, 1841)             | 6,C2                           | -                           | -                |
| <i>Acrosterigma orbita</i> (Broderip and<br>Sowerby, 1833) | 8,10,15,16                     | +                           | +                |
| <i>Acrosterigma</i> sp. (juv.)                             | -                              | -                           | +                |
| o <i>Corculum cardissum</i> (Linnaeus, 1758)               | -                              | -                           | +                |
| <i>Fragum fragum</i> (Linnaeus, 1758)                      | 1,3,16,C2                      | +                           | +                |
| <i>Fragum unedo</i> (Linnaeus, 1758)                       | 1,14,16,C1                     | -                           | -                |
| <b>TRIDACNIDAE</b>   |                                |                             |                  |
| <i>Hippopus hippopus</i> (Linnaeus, 1758)                  | 1,2,3,6,9,16,<br>18,C2         | +                           | +                |
| o <i>Tridacna crocea</i> Lamarck, 1819                     | 2,3,9,16,18,<br>C2             | +                           | +                |
| o <i>Tridacna gigas</i> (Linnaeus, 1758)                   | 6,9,18                         | +                           | +                |
| <i>Tridacna maxima</i> (Röding, 1798)                      | -                              | +                           | +                |

|   | Ashmore<br>Reef/<br>Cartier I.              | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|---|---|-----------------------------|------------------|
| <i>Tridacna squamosa</i> Lamarck, 1819              | 2,3,5,6,8,9,<br>10,13,15,16,<br>18,20,C1,C2 | +                           | +                |
| <b>MACTRIDAE</b>                                    |   |                             |                  |
| o <i>Mactra maculata</i> Gmelin, 1791               | 14,16,C1                                    | +                           | +                |
| o <i>Mactra obesa</i> (Reeve, 1864)                 | 14  | +                           | +                |
| <b>MESODESMATIDAE</b>                               |   |                             |                  |
| <i>Atactodea glabrata</i> (Lamarck, 1818)           | -   | -                           | +                |
| <b>TELLINIDAE</b>                                   |   |                             |                  |
| <i>Arcopagia linguafelis</i> (Linnaeus, 1758)       | -   | -                           | +                |
| <i>Arcopagia scobinata</i> (Linnaeus, 1758)         | -   | +                           | +                |
| <i>Exotica obliquaria</i> (Deshayes, 1854)          | -   | -                           | +                |
| <i>Exotica rhomboides</i> (Quoy and Gaimard, 1833)  | -   | -                           | +                |
| <i>Macoma dispar</i> (Conrad, 1837)                 | 14  | -                           | -                |
| <i>Quadrans gargadia</i> (Linnaeus, 1758)           | -   | -                           | +                |
| <i>Tellina crassiplicata</i> Sowerby, 1758          | -   | -                           | +                |
| o <i>Tellina crucigera</i> Lamarck, 1818            | 14,16                                       | -                           | -                |
| <i>Tellina perna</i> Spengler, 1798                 | 1,14,16,C1                                  | +                           | -                |
| <i>Tellina remies</i> Linnaeus, 1758                | -   | +                           | -                |
| <i>Tellina robusta</i> Sowerby, 1867                | -   | -                           | +                |
| <i>Tellina semitorta</i> Sowerby, 1867              | -   | -                           | +                |
| <i>Tellina virgata</i> Linnaeus, 1758               | -   | +                           | -                |
| <i>Tellina</i> sp.                                  | -   | -                           | +                |
| <b>SEMELIDAE</b>                                    |   |                             |                  |
| <i>Abra</i> sp.                                     | -   | -                           | +                |
| <i>Leptomya psittacus</i> (Hanley, 1853)            | 14  | -                           | +                |
| <i>Semele</i> sp.                                   | 2   | -                           | +                |
| <b>TRAPEZIIDAE</b>                                  |   |                             |                  |
| <i>Trapezium bicarinatum</i> (Schumacher, 1817)     | 13,16                                       | -                           | -                |
| <i>Trapezium oblongum</i> (Linnaeus, 1758)          | -   | -                           | +                |
| <b>PSAMMOBIIDAE</b>                                 |   |                             |                  |
| <i>Asaphis violaceans</i> (Forskål, 1775)           | 14,C2                                       | -                           | -                |
| <b>VENERIDAE</b>                                    |   |                             |                  |
| <i>Dosinia</i> sp.                                  | -   | +                           | -                |
| <i>Gafrarium intermedia</i> (Reeve, 1864)           | 12  | -                           | -                |
| <i>Lioconcha ornata</i> (Dillwyn, 1817)             | C3  | +                           | +                |
| <i>Lioconcha</i> cf. <i>tigrina</i> (Lamarck, 1816) | -   | +                           | -                |
| <i>Periglypta restriculata</i> (Sowerby, 1853)      | 2,6,9,16                                    | +                           | +                |
| <i>Periglypta reticulata</i> (Linnaeus, 1758)       | 1,2,3,4,5,8,<br>9,12,13,15,16               | -                           | +                |
| <i>Pitar</i> cf. <i>prora</i> (Conrad, 1837)        | -   | +                           | +                |

|   | Ashmore<br>Reef/<br>Cartier I. | Scott/<br>Seringapa-<br>tam | Rowley<br>Shoals |
|---|--------------------------------|-----------------------------|------------------|
| <i>Pitar</i> sp.  | -                              | +                           | -                |
| <i>Timoclea</i> sp. 1                                       | -                              | -                           | +                |
| <i>Timoclea</i> sp. 2                                       | -                              | -                           | +                |
| <i>Timoclea</i> sp. 3                                       | -                              | -                           | +                |
| <i>Timoclea</i> sp. 4                                       | -                              | -                           | +                |
| <i>Ventricolaria toreuma</i> (Gould, 1846)                  | 2,4,5,7,8,13,                  |                             |                  |
| GASTROCHAENIDAE   |                                |                             |                  |
| <i>Gastrochaena</i> cf. <i>cuneiformis</i> (Spengler, 1783) | 15,16                          | -                           | +                |
| NAUTILIDAE  |                                |                             |                  |
| <i>Nautilus pompilius</i> Linnaeus, 1758                    | In water                       | +                           | +                |
| SPIRULIDAE  |                                |                             |                  |
| <i>Spirula spirula</i> (Linnaeus, 1758)                     | -                              | +                           | -                |
| OCTOPODIDAE   |                                |                             |                  |
| <i>Octopus</i> sp. 1  | 1,3,12                         | +                           | +                |
| <i>Octopus</i> sp. 2  | 3                              | -                           | -                |
| SEPIIDAE  |                                |                             |                  |
| <i>Sepia cottoni</i> Adam, 1979                             | 2                              | -                           | -                |
| <i>Sepia inermis</i> (Ferussac and d'Orbigny,<br>1835-1838) | -                              | -                           | +                |
| o <i>Sepia latimanus</i> Quoy and Gaimard, 1832             | 16                             | +                           | +                |
| <i>Sepia papuensis</i> Hoyle, 1885                          | 2                              | -                           | -                |
| <i>Sepia pharaonis</i> Ehrenberg, 1831                      | 2                              | +                           | +                |