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A checklist of Australian marine Cenozoic Mollusca

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Abstract

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This checklist records all molluscan species described from the Cenozoic strata of the Carnarvon, Eucla, St Vincent, Murray, Otway, Gippsland and Bass basins of Australia. Synonymies of the species are given and a bibliography of the relevant literature.

Keywords

Gastropoda, Bivalvia, Cephalopoda, Polyplacophora, fossils, Western Australia, South Australia, Victoria, Tasmania

Introduction

This checklist follows on from the Catalogue of Australian Tertiary Mollusca (except chitons) published in 1970 (Darragh, 1970). As was stated then, it was thought impossible to compile a checklist because so little was known about the correct generic position of most of the species. Since its appearance, many publications with new taxa have appeared that were added in manuscript to a copy of the Catalogue maintained by me. Shortly after the publication of the catalogue, a manuscript checklist based on it was compiled by Dr O. P. Singleton, who then passed the manuscript over to me. Since then, this manuscript checklist has been maintained and kept up to date as revisions of families and genera, descriptions of new taxa, and new records of species were published.

To make the coverage of the checklist complete for all the classes of molluscs, the Australian fossil chiton species were included. The taxa in the checklist come from the marine sediments of the sedimentary basins of Western Australia, South Australia, Victoria and Tasmania; that is, the Carnarvon Basin, Eucla Basin, St Vincent Basin, Murray Basin, Otway Basin, Port Phillip Basin, Gippsland Basin and Bass Basin.

In compiling the checklist, names published in lists were usually excluded, because it was impossible to verify the identification.

The higher classification used here is based on that given in the molluscan section of the World Register of Marine Species (WoRMS), although subfamilies have not been used in the checklist. The status of the genera also largely follows WoRMS. To keep the size of the checklist manageable, full bibliographic references to the genera and the higher taxa are not given because these are readily available through WoRMS. Some details of the ranking of higher taxa follow that of Ponder et al. (2020).

Generic assignments, based on my assessment of the species, that differ from a previously published assignment are indicated

by the term “comb. nov.” in the species heading. Some of these assignments are of an administrative nature because of subsequent synonymy of the previously assigned genus. Other assignments reflect my belief that the previous assignment is incorrect or that the species would be better placed in another genus. The latter particularly applies to species that have never been studied since the original publication of the taxon. Comb. nov. has not been used in cases of incorrect subsequent spellings or unjustified emendations of generic names.

Because some authors published more than one work in a calendar year, I attempted to establish the month of publication of all the references listed in the bibliography. In a few cases this led to establishing that some species were described a year later than formerly supposed. These include species proposed in references by McCoy (1877, 1878) and Tate (1879, 1880).

The arrangement of the species within a genus is by order of stratigraphical age, with the oldest first, and for species of the same age in sedimentary basin order; that is from west to east. Distribution of species is given by the geological formations and sedimentary basins in which they occur, as detailed occurrences for many species are still unknown. The distributions are arranged from west to east in the order of the basins cited above. The occurrence in a formation of the holotype of a species is indicated where known. Age ranges are given in broad terms for the same reason. Further details on the ranges for some taxa can be found in Darragh (1985). Though now far out of date in terms of both taxonomy and geological ages, Dennant and Kitson (1903) also gives an idea of ranges and geographical distribution. The age of many or most of the species recorded from the Dry Creek Sands is now known to be middle Miocene rather than late Pliocene (Beu and Darragh, 2001). This change will probably affect the synonymy of some species as future revisions are undertaken.

For the sake of completeness of ranges, I included a few taxa that I identified but did not figure; these are listed in

Darragh (1976, 1985). Some taxa that are currently being worked on have been included with open nomenclature for the sake of completeness.

CLASS GASTROPODA
Subclass Eogastropoda
Infraclass Patellogastropoda
Superfamily Patelloidea
Family Patellidae
Scutellastra H. and A. Adams, 1854

Scutellastra sp.

Acmaea octoradiata (Hutton, 1873).—Chapman, 1912c: 186, pl. 12, figs 1, 2.

Patelloida perplexa (Pilsbry, 1891).—Chapman and Gabriel, 1923: 25.

Distribution. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Scutellastra hamiltonensis (Chapman and Gabriel, 1923) comb. nov.

Patelloida hamiltonensis Chapman and Gabriel, 1923: 24, pl. 1, fig. 3.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Scutellastra peronii (Blainville, 1825)

Patella (Scutellastra) peronii Blainville, 1825.—Ludbrook, 1983: 43, fig. 3t; Ludbrook, 1984: 226, Fig. 57a.

Distribution. St Vincent Basin: Point Ellen Formation. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

Family Nacellidae
Nacella Schuhmacher, 1817

***Nacella? jutsoni* (Chapman and Crespin, 1934)**

Cellana jutsoni Chapman and Crespin, 1934: 122, pl. 11, fig. 28.

Nacella? jutsoni (Chapman and Crespin, 1934).—Darragh and Kendrick, 2000: 30, Figs 4L, N.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Cellana H. Adams, 1869

***Cellana cudmorei* Chapman and Gabriel, 1923**

Cellana cudmorei Chapman and Gabriel, 1923: 23, pl. 1, fig. 1, pl. 3, figs 27, 28.

Distribution. Port Phillip Basin: Batesford Limestone (type). *Age:* early Miocene.

***Cellana hentyi* Chapman and Gabriel, 1923**

Cellana hentyi Chapman and Gabriel, 1923: 23, pl. 1 fig. 2.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Superfamily Lottioidea
Family Lottiidae
Notoacmea Iredale, 1915

***Notoacmea* sp.**

Acmaea (Chiazacmea) sp. Ludbrook, 1978: 89, pl. 20, fig. 1.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Family Eoacmaeidae
Eoacmaea Nakano and Ozawa, 2007

***Eoacmaea multiradialis* (Chapman and Gabriel, 1923) comb. nov.**

Patelloida multiradialis Chapman and Gabriel, 1923: 24, pl. 1, fig. 4, pl. 3, fig. 29.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Subclass Orthogastropoda
Infraclass Vetigastropoda
Order Pleurotomariida
Superfamily Pleurotomarioidea
Family Pleurotomariidae
Petrochus P. Fischer, 1885

***Petrochus tertiaris* (McCoy, 1875) comb. nov.**

Pleurotomaria tertiaris McCoy, 1875c: 101, fig.—McCoy, 1876: 23, pl. 25, figs 1, 1a, b; Pritchard, 1903b: 83, pl. 14, figs 1–4.

Distribution. Port Phillip Basin: Upper Maude Limestone (type). *Age:* early Miocene.

***Petrochus bassi* (Pritchard, 1903) comb. nov.**

Pleurotomaria bassi Pritchard, 1903b: 85, pl. 13, figs 1, 2.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Order Haliotida
Superfamily Haliotoidea
Family Haliotidae
Haliotis Linnaeus, 1758

***Haliotis mooraboolensis* McCoy, 1876**

Haliotis mooraboolensis McCoy, 1876: 25, pl. 25, figs 3, 3a, b.

Distribution. Port Phillip Basin: Upper Maude Limestone (type). *Age:* early Miocene.

***Haliotis ovinooides* McCoy, 1876**

Haliotis ovinooides McCoy, 1876: 24, pl. 25, figs 2, 2a, b.

Distribution. Port Phillip Basin: Upper Maude Limestone (type). *Age:* early Miocene.

***Haliotis naevosoides* McCoy, 1876**

Haliotis naevosoides McCoy, 1876: 27, pl. 26, figs 1, 2, 2a.—Gill and Baker, 1955: pl. 1, fig. 5.

Distribution. Port Phillip Basin: Gellibrand Formation (type).

Age: middle Miocene.

***Haliotis cyclobates* Péron and Lesueur, 1816**

Haliotis (Exohaliotis) cyclobates Péron and Lesueur, 1816.—Ludbrook, 1978: 86, pl. 10, fig. 1; Ludbrook, 1984: 226, Fig. 57c.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Western–southern Australia (living).
Age: late Pliocene–present.

***Haliotis roei* Gray, 1826**

Haliotis (Marinauris) roei Gray, 1826.—Ludbrook, 1978: 87.

Distribution. Eucla Basin: Roe Calcarenite. Western–southern Australia (living). Age: late Pliocene–present.

Order Fissurellida
Superfamily Fissurelloidea
Family Fissurellidae
Puncturella Lowe, 1927

***Puncturella hemipsila* Tate, 1898**

Puncturella hemipsila Tate, 1898a: 406, pl. 20, figs 8a, b.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

Rimula DeFrance, 1827

***Rimula? crepiduloides* Darragh, 1997**

Rimula? crepiduloides Darragh, 1997: 63, Figs 1K, M, 11B, C, E, F.

Distribution. Otway Basin: Pebble Point Formation (type).
Age: late Paleocene.

Altrix Palmer, 1942

***Altrix caminata* (Darragh, 1997)**

Puncturella (Altrix) caminata Darragh, 1997: 63, Figs 1P, Q, Y.

Distribution. Otway Basin: Pebble Point Formation (type).
Age: late Paleocene.

Emarginula Lamarck, 1801

***Emarginula* sp.**

Emarginula sp. Darragh, 1997: 62, Fig. 1N.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

***Emarginula* sp.**

Emarginula sp. Darragh and Kendrick, 2008: 229, Figs 2.1, 2.2, 2.6.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Emarginula?* sp.**

Emarginula? sp. Darragh and Kendrick, 2000: 30, Figs 4K, M.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Emarginula maudensis* Chapman and Gabriel, 1923**

Emarginula maudensis Chapman and Gabriel, 1923: 28, pl. 2, fig. 15, pl. 3, fig. 33.

Distribution. Port Phillip Basin: Lower Maude Limestone (type). Age: late Oligocene.

***Emarginula transenna* Tenison Woods, 1877**

Emarginula transenna Tenison Woods, 1877: 103.—May, 1919: 70, pl. 8, fig. 1; Chapman and Gabriel, 1923: 28, pl. 2, figs 16, 17.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Emarginula wannonensis* Harris, 1897**

Emarginula wannonensis Harris, 1897: 288, pl. 8, figs 6a–c.—Chapman and Gabriel, 1923: 29.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Emarginula delicatissima* Chapman and Gabriel, 1923**

Emarginula delicatissima Chapman and Gabriel, 1923: 26, pl. 1, figs 11, 12, pl. 3, figs 30, 31.—Ludbrook, 1956: 8.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Emarginula dennanti* Chapman and Gabriel, 1923**

Emarginula dennanti Chapman and Gabriel, 1923: 27, pl. 1, figs 13, 14, pl. 3, fig. 32.—Ludbrook, 1956: 8.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Emarginula didactica* Ludbrook, 1956**

Emarginula didactica Ludbrook, 1956: 8, pl. 2, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Emarginula dilatoria* Ludbrook, 1956**

Emarginula dilatoria Ludbrook, 1956: 9, pl. 2, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Montfortula Iredale, 1915

***Montfortula oclusa* (Tate, 1898)**

Subemarginula oclusa Tate, 1898a: 405, pl. 20, figs 9a, b.

Montfortula oclusa (Tate, 1898).—Chapman and Gabriel, 1923: 32, pl. 3, fig. 35.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone. Age: early–middle Miocene.

***Montfortula cainozoica* Chapman and Gabriel, 1923**

Montfortula cainozoica Chapman and Gabriel, 1923: 31, pl. 2, fig. 21, pl. 3, fig. 36.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Montfortula squamoidea* Chapman and Gabriel, 1923**

Montfortula squamoidea Chapman and Gabriel, 1923: 33, pl. 2, fig. 26.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Montfortula gemmata* Chapman and Gabriel, 1923**

Montfortula gemmata Chapman and Gabriel, 1923: 32, pl. 2, figs 22–24.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Montfortula aperturata* Chapman and Gabriel, 1923**

Montfortula aperturata Chapman and Gabriel, 1923: 30, pl. 2, figs 18–20, pl. 3, fig. 34.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation, Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl. *Age:* middle Miocene.

***Montfortula ponderosa* Chapman and Gabriel, 1923**

Montfortula ponderosa Chapman and Gabriel, 1923: 33, pl. 2, fig. 25.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl (type). *Age:* middle Miocene.

***Montfortula rugosa* (Quoy and Gaimard, 1834)**

Clypidina (*Montfortula*) *rugosa* (Quoy and Gaimard, 1834).—Ludbrook, 1983: 43, fig. 31; Ludbrook, 1984: 226, Fig. 57b.

Distribution. St Vincent Basin: Point Ellen Formation. Australia (living). *Age:* late Pliocene–present.

Tugali Gray, 1843

***Tugali?* sp.**

Tugali? sp. Darragh and Kendrick, 2010: 34, Figs 5G–I.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. *Age:* late Eocene.

***Tugali crassireticulata* (Pritchard, 1896)**

Tugalia crassireticulata Pritchard, 1896: 125, pl. 3, figs 4, 5.—Chapman and Gabriel, 1923: 34.

Distribution: Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Tugali elata* (Chapple, 1941)**

Tugalia elata Chapple, 1941: 119, pl. 14, figs 8, 8a.

Distribution. Port Phillip Basin: Batesford Limestone (type). *Age:* early Miocene.

***Tugali infortunata* Ludbrook, 1941**

Tugali infortunatum Ludbrook, 1941: 82, pl. 4, fig. 1.—Ludbrook, 1956: 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Tugali nota* (Cotton, 1947)**

Tugalia nota Cotton, 1947: 665, pl. 21, figs 11, 12.—Cotton 1947: Ludbrook, 1956: 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Tugali cicatricosa* A. Adams, 1852**

Tugali cicatricosa A. Adams, 1852.—Ludbrook, 1956: 9.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living) *Age:* middle Miocene–present.

Amblychilepas Pilsbry, 1890

***Amblychilepas acra* (Cotton, 1947)**

Sophismalepas acra Cotton, 1947: 665, pl. 21, figs 4, 5.

Amblychilepas acra (Cotton, 1947).—Ludbrook, 1956: 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Amblychilepas crucis* (Beddome, 1883)**

Amblychilepas crucis (Beddome, 1883).—Ludbrook, 1978: 87, pl. 10, fig. 2.

Distribution. Eucla Basin: Roe Calcarenite. Victoria and Tasmania (living). *Age:* late Pliocene–present.

***Amblychilepas oblonga* (Menke, 1843)**

Amblychilepas oblonga (Menke, 1843).—Ludbrook, 1978: 88, pl. 20, fig. 2.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Amblychilepas omicron* (Crosse and Fischer, 1864)**

Amblychilepas omicron (Crosse and Fischer, 1864).—Ludbrook, 1978: 88.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Cosmetalepas Iredale, 1924

***Cosmetalepas malleata* (Tate, 1882) comb. nov.**

Fissurellidaea malleata Tate, 1882: 46; Harris, 1897: 287, pl. 8, figs 5a–c.

Megatebennus concatenatus (Cross and Fischer, 1864).—Chapman and Gabriel, 1923: 34.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation.

***Cosmetalepas laqueata* (Tate, 1885) comb. nov.**

Fissurellidaea laqueata Tate, 1885a: 1; Chapman and Gabriel, 1923: 36.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Cosmetalepas concatenatus pyrula* (Chapman, 1926) comb. nov.**

Megatebennus concatenatus pyrula Chapman, 1926: 133, pl. 10, fig. 3.

Distribution. Gippsland Basin: Gippsland Limestone (type). Age: middle Miocene.

Order Cocculinida
Superfamily Cocculinoidea
Family Cocculinidae
Collulina Dall, 1882

***Cocculina?* sp.**

Cocculina? sp. Darragh, 1997: 64, Figs 1L, O.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

Order Lepetellida
Superfamily Lepetelloidea
Family Lepetellidae
Tecticrater Dell, 1956

***Tecticrater praecompressa* (Chapman and Gabriel, 1923) comb. nov.**

Cocculina praecompressa Chapman and Gabriel, 1923: 25, pl. 1, figs 5–8.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Family Addisoniidae
Addisonia Dall, 1882

***Addisonia gunyoungensis* (Chapman and Gabriel, 1923) comb. nov.**

Cocculina gunyoungensis Chapman and Gabriel, 1923: 26, pl. 1, figs 9, 10.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Addisonia salisburyensis* (Ludbrook, 1956) comb. nov.**

Cocculinella salisburyensis Ludbrook, 1956: 26, pl. 2, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Order Seguenziida
Superfamily Seguenzioidea
Family Seguenziidae
Ancistrobasis Dall, 1889

***Ancistrobasis radialis* (Tate, 1890) comb. nov.**

Sequenzia radialis Tate, 1890: 192; Tate, 1892, pl. 9, figs 6, 6a.

Basilissa radialis (Tate, 1890).—Cossmann, 1918: 268, pl. 8, figs 55, 56, pl. 9, fig. 45.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Brookula Iredale, 1912

***Brookula singletoni* Chapman and Crespin, 1928**

Brookula singletoni Chapman and Crespin, 1928: 107, pl. 6, figs 30a, b.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Calliobasis B. A. Marshall, 1983

***Calliobasis cossmanni* (Tate, 1894) comb. nov.**

Basilissa cossmanni Tate, 1894: 185, pl. 11, figs 8, 8a.—Cossmann, 1918: 268, pl. 8, figs 59–63, pl. 10, fig. 34.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

Family Trochaclididae
Trochaclis Thiele, 1912

***Trochaclis? stillata* Darragh and Kendrick, 2000**

Trochaclis? stillata Darragh and Kendrick, 2000: 51, Figs 8H, J.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Trochaclis morningtonensis* Marshall, 1995**

Trochaclis morningtonensis Marshall, 1995: 96, Figs 7, 8.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Acremodontina B. A. Marshall, 1983

***Acremodontina balcombiana* Marshall, 1995**

Acremodontina balcombiana Marshall, 1995: 111, Figs 50–52.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Family Chilodontaidae
Agathodonta Cossmann, 1918

***Agathodonta?* sp.**

Agathodonta? sp. Darragh and Kendrick, 2000: 45, Fig. 6N.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Herpetopoma Pilsbry, 1890

***Herpetopoma woodsii* (Johnston, 1880) comb. nov.**

Euchelus woodsii Johnston, 1880: 38.—May, 1919: 71, pl. 9, fig. 10.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Herpetopoma pliocenica* Ludbrook, 1941**

Euchelus baccatus (Menke, 1843).—Chapman and Gabriel, 1914: 316, pl. 26, fig. 14; Chapman, 1916: pl. 69, fig. 14 non Menke.

Herpetopoma pliocenica Ludbrook, 1941: 87, pl. 4, fig. 18.

Euchelus (Herpetopoma) pliocenicus (Ludbrook, 1941).—Ludbrook, 1956: 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). Murray Basin: Bookpurnong Formation. **Age:** middle Miocene.

Danilia Brusina, 1865

***Danilia vialis* Darragh and Kendrick, 2000**

Danilia vialis Darragh and Kendrick, 2000: 42, Figs 6E, I.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

***Danilia euglypta* Darragh and Kendrick, 2000**

Danilia euglypta Darragh and Kendrick, 2000: 44, Fig 6G.

Distribution. Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

Family Eucyclidae

Calliotropis Sequenza, 1903

***Calliotropis microglyptophorus* Darragh, 1997**

Calliotropis microglyptophorus Darragh, 1997: 64, Figs 2C, Q–T.

Distribution. Otway Basin: Pebble Point Formation (type). **Age:** late Paleocene.

Order Trochida

Superfamily Trochoidea

Family Solariellidae

Bathymophila Dall, 1881

***Bathymophila? bystromphalata* Darragh, 1997**

Bathymophila? bystromphalata Darragh, 1997: 66, Figs 2A, B, F–H.

Distribution. Otway Basin: Pebble Point Formation (type). **Age:** late Paleocene.

Family Angariidae

Pseudoninella Sacco, 1896

***Pseudoninella? squarrosa* Darragh and Kendrick, 2000**

Pseudoninella? squarrosa Darragh and Kendrick, 2000: 33, Figs 4A, D–G.

Distribution. Otway Basin: Browns Creek Formation (type). **Age:** late Eocene.

Pseudoninella? sp.

Pseudoninella? sp. Darragh and Kendrick, 2000: 34, Figs 8C–E.

Distribution. Eucla Basin: Werillup Formation, Pallinup Formation. **Age:** middle–late Eocene.

Angaria Röding, 1798

***Angaria tyria* (Reeve, 1842)**

Angaria tyria (Reeve, 1842).—Ludbrook, 1978: 99, pl. 10, figs 9–11.

Distribution. Eucla Basin: Roe Calcarenite. Western Australia (living). **Age:** late Pliocene–present.

Family Trochidae

Conominolia Finlay, 1926

***Conominolia parvistrigulata* Darragh, 1997**

Conominolia parvistrigulata Darragh, 1997: 68, Figs 2I, J, M–P.

Distribution. Otway Basin: Pebble Point Formation (type). **Age:** late Paleocene.

Antisolarium Finlay, 1926

***Antisolarium gibbuloides* (Tenison Woods, 1877)**

Solarium (Torinia) gibbuloides Tenison Woods, 1877: 97.—May, 1919: 70, pl. 8, fig. 5.

Delphinula imparigranosa Pritchard, 1896: 121, pl. 3, figs 8, 9.

Delphinula gibbuloides (Tenison Woods, 1877).—Pritchard, 1896: 122.

Antisolarium gibbuloides (Tenison Woods, 1877).—Ludbrook, 1967: 66, pl. 2, fig. 17.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

Austrocochlea P. Fischer, 1885

***Austrocochlea constricta* (Lamarck, 1822)**

Monodonta (Austrocochlea) constricta (Lamarck, 1822).—Ludbrook, 1978: 91.

Distribution. Eucla Basin: Roe Calcarenite. Western Australia, southern and eastern Australia (living). **Age:** late Pliocene–present.

***Austrocochlea rudis* (Gray, 1826)**

Diloma (Fractarmilla) rudis (Gray, 1827 [sic]).—Ludbrook, 1983: 44, fig. 3o; Ludbrook, 1984: 228, Fig. 57f.

Distribution. St Vincent Basin: Point Ellen Formation. Western and South Australia (living). **Age:** late Pliocene–present.

Bankivia Krauss, 1848

***Bankivia howitti* Pritchard, 1904**

Bankivia howitti Pritchard, 1904: 334, pl. 18, fig. 1.

Distribution. Gippsland Basin: Jemmys Point Formation (type). **Age:** early Pliocene.

***Bankivia fasciata* (Menke, 1830)**

Distribution. Otway Basin: Whalers Bluff Formation, Werrikoo Limestone. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. Bass Basin:

Cameron Inlet Formation, Memana Formation. Age: late Miocene–present.

Clanculus Montfort, 1810

***Clanculus* sp.**

Clanculus (*Paraclanculus*) sp. Darragh and Kendrick, 2000: 47, Figs 6L, M.

Distribution. Eucla Basin: Pallinup Formation. Age: early Eocene.

***Clanculus eucarinatus* Ludbrook, 1941**

Clanculus eucarinatus Ludbrook, 1941: 83, pl. 4, fig. 3.

Clanculus (*Euriclanculus*) *eucarinatus* Ludbrook, 1941.—Ludbrook, 1956: 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Clanculus quadricingulatus* Ludbrook, 1941**

Clanculus quadricingulatus Ludbrook, 1941: 82, pl. 4, fig. 2.

Clanculus (*Euriclanculus*) *quadricingulatus* Ludbrook, 1941.—Ludbrook, 1956: 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Clanculus tricingulatus* Ludbrook, 1978**

Clanculus (*Euriclanculus*) *tricingulatus* Ludbrook, 1978: 95, pl. 20, figs 8–10.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

***Clanculus consobrinus* (Tate, 1893)**

Clanculus (*Mesoclanculus*) *consobrinus* Tate, 1893.—Ludbrook, 1978: 96.

Distribution. Eucla Basin: Roe Calcarenite. Western and South Australia (living). Age: late Pliocene–present.

***Clanculus plebeius* (Philippi, 1851)**

Clanculus (*Mesoclanculus*) *plebeius* Philippi, 1851.—Ludbrook, 1978: 96.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Infundibulum Montfort, 1810

***Infundibulum? latesulcatum* Tate, 1898**

Infundibulum latesulcatum Tate, 1898a: 404, pl. 20, fig. 10.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

Leiopyrga H. and A. Adams, 1863

***Leiopyrga sayceana* Tate, 1891**

Leiopyrga sayceana Tate, 1891: 261.

Distribution. Port Phillip Basin: Sandringham Sandstone (type). Age: late Miocene.

***Leiopyrga quadricingulata* Tate, 1891**

Leiopyrga quadricingulata Tate, 1891: 261.

Leiopyrga [sic] *quadricingulata* Tate, 1891.—Cossmann, 1921: 314, pl. 4, figs 39, 40.

Eumargarita (*Turcicula*) *tatei* Cossmann, 1918: 359, pl. 10, fig. 9.

Distribution. Otway Basin: Grange Burn Formation, Whalers Bluff Formation. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Age: early–late Pliocene.

***Leiopyrga gemmifera* Ludbrook, 1978**

Leiopyrga gemmifera Ludbrook, 1978: 93, pl. 20, figs 19, 20.

Distribution. Perth Basin: “younger” Ascot Formation. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene–early Pleistocene.

***Leiopyrga octona* Tate, 1891**

Leiopyrga octona Tate, 1891.—Ludbrook, 1978: 94.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Cantharidus Montford, 1810

***Cantharidus multicinctus* Cresspin, 1926**

Cantharidus multicinctus Cresspin, 1926: 120, pl. 9, fig. 18.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Trochus Linnaeus, 1758

***Trochus* cf. *T. maculatus* Linnaeus, 1758**

Trochus (*Trochus*) cf. *T. maculatus* Linnaeus, 1758: McNamara and Kendrick, 1994: 25, Fig. 10D.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

Phasianotrochus P. Fischer, 1885

***Phasianotrochus laxegemmatum* Ludbrook, 1941**

Phasianotrochus laxegemmatum Ludbrook, 1941: 83, pl. 4, fig. 4.

Cantharidus (*Phasianotrochus*) *laxegemmatum* (Ludbrook, 1941).—Ludbrook, 1956: 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Phasianotrochus subsimplex* Ludbrook, 1941**

Phasianotrochus subsimplex Ludbrook, 1941: 83, pl. 4, fig. 10.

Cantharidus (*Phasianotrochus*) *subsimplex* (Ludbrook, 1941).—Ludbrook, 1956: 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Phasianotrochus eximius* (Perry, 1811)**

Cantharidus (*Phasianotrochus*) *eximius* (Perry, 1811).—Ludbrook, 1983: 43; Ludbrook, 1984: 226, Fig. 57g.

Distribution. St Vincent Basin: Point Ellen Formation. Western, southern and eastern Australia (living). Age: late Pliocene.

***Phasianotrochus apicinus* (Menke, 1843)**

Cantharidus (*Phasianotrochus*) *apicinus* (Menke, 1843).—Ludbrook, 1978: 92, pl. 20, figs 5, 11; Ludbrook, 1983: 47, fig. 3k.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Burnham Limestone. Southern Australia (living). *Age*: late Pliocene–present.

***Phasianotrochus irisodontes* (Quoy and Gaimard, 1833)**

Cantharidus (*Phasianotrochus*) *irisodontes* (Quoy and Gaimard, 1833).—Ludbrook, 1978: 92.

Distribution. Eucla Basin: Roe Calcarenite. Western and southern Australia (living). *Age*: late Pliocene–present.

Diloma Philippi, 1845

***Diloma concamerata* (W. Wood, 1828)**

Diloma (*Fractarmilla*) *concamerata* (W. Wood, 1828).—Ludbrook, 1983: 44, figs 3m, n; Ludbrook, 1984: 226, Fig. 57d, e.

Distribution. St Vincent Basin: Point Ellen Formation. Southern and eastern Australia (living). *Age*: late Pliocene–present.

Thalotia Gray, 1847

***Thalotia alternata* Tenison Woods, 1877**

Thalotia alternata Tenison Woods, 1877: 97; Ludbrook, 1967: 66, pl. 2, figs 19, 20.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Thalotia exigua* Tenison Woods, 1879**

Thalotia exigua Tenison Woods, 1879a: 235, pl. 20, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Thalotia* sp.**

Thalotia sp. McNamara and Kendrick, 1994: 25, fig. 10e.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

***Thalotia conica* (Gray, 1826)**

Thalotia (*Thalotia*) *conica* (Gray, 1827).—Ludbrook, 1978: 94.

Distribution. Eucla Basin: Roe Calcarenite. Western and southern Australia (living). *Age*: late Pliocene–present.

Calthalotia Iredale, 1929

***Calthalotia nitidissima* Ludbrook, 1941**

Calthalotia nitidissima Ludbrook, 1941: 83, pl. 4, fig. 11.

Thalotia (*Calthalotia*) *nitidissima* (Ludbrook, 1941).—Ludbrook, 1956: 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Calthalotia fictilis* Ludbrook, 1941**

Calthalotia fictilis Ludbrook, 1941: 84, pl. 4, fig. 14.

Thalotia (*Calthalotia*) *fictilis* (Ludbrook, 1941).—Ludbrook, 1956: 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

Prothalotia Thiele, 1930

***Prothalotia serratula* (Pritchard, 1904) comb. nov.**

Cantharidus serratulus Pritchard, 1904: 331, pl. 19, figs 5, 6.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age*: middle Miocene.

Odontotrochus P. Fischer, 1885

***Odontotrochus chlorostoma* (Menke, 1843)**

Thalotia (*Odontotrochus*) *chlorostoma* (Menke, 1843).—Ludbrook, 1978: 94, pl. 10, fig. 23.

Distribution. Eucla Basin: Roe Calcarenite. Western Australia, South Australia (living). *Age*: late Pliocene–present.

Monilea Swainson, 1840

***Monilea euclensis* Ludbrook, 1978**

Monilea euclensis Ludbrook, 1978: 97, pl. 10, figs 4–8, 12.—Ludbrook, 1983: 44, figs 3p, q; Ludbrook, 1984: 228, Figs 57h, i.

Distribution. Eucla Basin: Roe Calcarenite (type). St Vincent Basin: Point Ellen Formation, Burnham Limestone. *Age*: late Pliocene–early Pleistocene.

Nanula Thiele, 1924

***Nanula galbina* (Hedley and May, 1908)**

Nanula galbina (Hedley and May, 1908).—Ludbrook, 1978: 97, pl. 20, figs 6, 7.

Distribution. Eucla Basin: Roe Calcarenite. Southern New South Wales, Tasmania (living). *Age*: late Pliocene–present.

Notogibbula Iredale, 1924

***Notogibbula aequisulcata* (Tenison Woods, 1877)**

Gibbula aequisulcata Tenison Woods, 1877: 98.—May, 1919: 70, pl. 8, fig. 3.

Gibbula (*Notogibbula*) *aequisulcata* Tenison Woods, 1877.—Ludbrook, 1967: 66, pl. 2, fig. 25.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Notogibbula clarkei* (Tenison Woods, 1877)**

Gibula[sic] *clarkei* Tenison Woods, 1877: 114.—May, 1919: 70, pl. 8, fig. 2.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Notogibbula* sp. cf. *N. lehmanni* (Menke, 1843)**

Gibbula (*Notogibbula*) sp. cf. *G. (N.) lehmanni* (Menke, 1843).—Ludbrook, 1978: 90, pl. 20, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.

Micrelenchus Finlay, 1926

***Micrelenchus armulatus* Darragh and Kendrick, 2000**

Micrelenchus (*Plumbelenchus*) *armulatus* Darragh and Kendrick, 2000: 46: Figs 6J, K.—Darragh and Kendrick, 2008: 229, Fig. 2.3.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation (type). St Vincent Basin: Blanche Point Formation. *Age*: late Eocene.

***Micrelenchus lirulatus* Darragh and Kendrick, 2000**

Micrelenchus (*Plumbelenchus*) *lirulatus* Darragh and Kendrick, 2000: 46: Fig. 6F.

Distribution. Otway Basin: Glen Aire Clay (type). *Age*: early Oligocene.

Pulchrastele Iredale, 1929

***Pulchrastele planiconicum* Ludbrook, 1941**

Pulchrastele planiconicum Ludbrook, 1941: 86: pl. 4, fig. 12.

Astele (*Pulchrastele*) *planiconicum* Ludbrook, 1941.—Ludbrook, 1956: 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Pulchrastele tuberculatum* Ludbrook, 1941**

Pulchrastele tuberculatum Ludbrook, 1941: 86: pl. 4, fig. 15.

Astele (*Pulchrastele*) *tuberculatum* Ludbrook, 1941.—Ludbrook, 1956: 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

Botelloides Strand, 1928

***Botelloides* sp.**

Botelloides sp. Darragh, 1997: 69, Figs 2D, E.

Distribution. Otway Basin: Pebble Point Formation. *Age*: late Paleocene.

***Botelloides bassianus darraghi* Ponder, 1985**

Botelloides bassianus darraghi Ponder, 1985b: 304, pl. 4, fig. 6.

Distribution. Otway Basin: Browns Creek Formation (type). *Age*: late Eocene.

***Botelloides bassianus bassianus* (Hedley, 1911)**

Rissoa (*Onoba*) *bassiana* (Hedley, 1911).—Chapman and Gabriel, 1914: 322, pl. 28, fig. 31; Chapman, 1916, pl. 71, fig. 31.

Botelloides bassianus bassianus (Hedley, 1911).—Ponder, 1985b: 303, pl. 4, fig. 4, 5.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Port Campbell Limestone, Goodwood Formation, Grange Burn Formation. Port Phillip Basin: Gellibrand Formation. Southern Australia (living). *Age*: middle Miocene–present.

***Botelloides borda pliogenicus* Ponder, 1985**

Botelloides borda pliogenicus Ponder, 1985b: 307, pl. 4, fig. 1.

Distribution. Perth Basin: Ascot Formation (type). *Age*: late Pliocene.

***Botelloides sulcatus kerslakae* Ponder, 1985**

Botelloides sulcatus kerslakae Ponder, 1985b: 308, pl. 4, fig. 2.

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation (type). *Age*: late Miocene–early Pliocene.

***Botelloides chrysalidus chrysalidus* (Chapman and Gabriel, 1914)**

Rissoa (*Onoba*) *chrysalida* Chapman and Gabriel, 1914: 322, pl. 28, figs 32, 33.—Chapman, 1916, pl. 71, figs 32, 33.

Epigrus chrysalida (Chapman and Gabriel, 1914).—Chapman and Crespín, 1928: 114.

Amphithalamus (*Pisinna*) *chrysalidus* (Chapman and Gabriel, 1914).—Ludbrook, 1956: 27, pl. 2, fig. 12.

Botelloides chrysalidus chrysalidus (Chapman and Gabriel, 1914).—Ponder, 1985b: 309, pl. 6, figs 6, 7, fig. 1b.

Distribution: St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. (type). Otway Basin: Goodwood Formation, Grange Burn Formation. Port Phillip Basin: Gellibrand Formation. Southern Australia (living) *Age*: middle Miocene–early Pliocene, present.

***Botelloides chrysalidus kendricki* Ponder, 1985**

Botelloides chrysalidus kendricki Ponder, 1985b: 310, pl. 6, figs 1–5.

Distribution. Perth Basin: Ascot Formation, Jandacot beds. Southwestern Australia (living). *Age*: late Pliocene–present.

***Botelloides hallae* Ponder, 1985**

Botelloides hallae Ponder, 1985b: 311, pl. 5, figs 5, 6.

Distribution. Otway Basin: Muddy Creek Formation, Grange Burn Formation. Port Phillip Basin: Jan Juc Formation (type), Gellibrand Formation. *Age*: late Oligocene–early Pliocene.

***Botelloides ludbrookae ludbrookae* Ponder, 1985**

Botelloides ludbrookae ludbrookae Ponder, 1985b: 312, pl. 7, figs 4, 6.

Distribution. Perth Basin: Ascot Formation (type). *Age*: late Pliocene.

***Botelloides ludbrookae intermedius* Ponder, 1985**

Botelloides ludbrookae intermedius Ponder, 1985b: 312, pl. 7, figs 5, 7.

Distribution. Perth Basin: Jandacot Formation (type). *Age*: early Pleistocene.

Stomatella Lamarck, 1816

***Stomatella incola* (Cotton, 1947)**

Gena incola Cotton, 1947: 666, pl. 21, figs 13, 14.—Ludbrook, 1956: 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Trochid sp. A

Trochid, genus undetermined species A Darragh and Kendrick, 2000: 50, Figs 7D, E.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Trochid sp. B

Trochid, genus undetermined species B Darragh and Kendrick, 2000: 51, Fig. 7B.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Family Calliostomatidae

Astele Swainson, 1855

***Astele fontinalis* (Pritchard, 1904) comb. nov.**

Eutrochus fontinalis Pritchard, 1904: 333, pl. 19, fig. 9.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Astele millegranosa* Pritchard, 1904**

Astele millegranosa Pritchard, 1904: 332, pl. 19, figs 7, 8.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Astele fanaticum* Ludbrook, 1941**

Astele fanaticum Ludbrook, 1941: 86: pl. 4, fig. 6.

Astele (Astele) fanaticum Ludbrook, 1941: —Ludbrook, 1956: 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Astele rubiginosa* (Valenciennes, 1846)**

Calliostoma (Salsipotens) rubiginosum (Valenciennes, 1846).—Ludbrook, 1978: 90.

Distribution. Eucla Basin: Roe Calcarenite. Western and southern Australia (living). *Age:* late Pliocene–present.

Calliostoma Swainson, 1840

***Calliostoma* sp.**

Calliostoma sp. Darragh and Kendrick, 2000: 49, Figs 6A, 7C, F–H.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Calliostoma blaxlandi* (Tenison Woods, 1877) comb. nov.**

Zizyphinus blaxlandii Tenison Woods, 1877: 96.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Calliostoma? josephi* (Tenison Woods, 1877) comb. nov.**

Trochus josephi Tenison Woods, 1877: 97.—May, 1919: 71, pl. 9, fig. 7.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Calliostoma tasmanica* (Johnston, 1880) comb. nov.**

Zizyphinus tasmanicus Johnston, 1880: 38.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Calliostoma atoma* (Johnston, 1880) comb. nov.**

Zizyphinus atomus Johnston, 1880: 38.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Calliostoma latecarina* Pritchard, 1896**

Calliostoma latecarina Pritchard, 1896: 120, pl. 3, figs 10, 11.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Calliostoma semiornata* Chapman, 1926**

Calliostoma semiornata Chapman, 1926: 133, pl. 10, figs 5, 6.

Distribution. Otway Basin: Muddy Creek Formation (type). Gippsland Basin: Gippsland Limestone. *Age:* middle Miocene.

***Calliostoma hedleyi* Pritchard and Gatliff, 1902**

Calliostoma (Fautor) hedleyi Pritchard and Gatliff, 1902.—Ludbrook, 1978: 90.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Fautor Iredale, 1924

***Fautor numapum* (Darragh and Kendrick, 2000)**

Calliostoma (Fautor) numapum Darragh and Kendrick, 2000: 48, Fig. 7A.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Fautor* sp. aff. *numapum* (Darragh and Kendrick, 2000)**

Calliostoma (Fautor) sp. aff. *numapum* Darragh and Kendrick, 2000.—Darragh and Kendrick, 2008: 229, Fig. 2.14.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

Laetifautor Iredale, 1929

***Laetifautor balcombensis* (Chapple, 1934) comb. nov.**

Calliostoma balcombensis Chapple, 1934: 165, pl. 19, figs 6a, b.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Laetifautor obliquicancellatus* Ludbrook, 1941**

Laetifautor obliquicancellatus Ludbrook, 1941: 84, pl. 4, fig. 7.

Calliostoma (Laetifautor) obliquicancellatum (Ludbrook, 1941).—Ludbrook, 1956: 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Laetifautor spinicarinatus* Ludbrook, 1941**

Laetifautor spinicarinatus Ludbrook, 1941: 84, pl. 4, fig. 8.

Calliostoma (Laetifautor) spinicarinatum (Ludbrook, 1941).—Ludbrook, 1956: 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Laetifautor crebrinodulosus* Ludbrook, 1941**

Laetifautor crebrinodulosus Ludbrook, 1941: 85, pl. 4, fig. 9.

Calliostoma (Laetifautor) crebrinodulosum (Ludbrook, 1941).—Ludbrook, 1956: 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Laetifautor bicarinatus* Ludbrook, 1941**

Laetifautor bicarinatus Ludbrook, 1941: 85, pl. 4, fig. 13.

Calliostoma (Laetifautor) bicarinatum (Ludbrook, 1941).—Ludbrook, 1956: 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Carinastele B. A. Marshall, 1988

***Carinastele?* sp.**

Carinastele? sp. Darragh and Kendrick, 2000: 50, Fig. 6H.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Family Solariellidae

Spectamen Iredale, 1924

***Spectamen kekwickii* (Tenison Woods, 1877) comb. nov.**

Margarita kekwickii Tenison Woods, 1877: 97.—May, 1919: 71, pl. 9, fig. 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Spectamen strigata* (Tenison Woods, 1879) comb. nov.**

Minolia strigata Tenison Woods, 1879a: 235, pl. 21, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Spectamen planicarinatum* Ludbrook, 1956**

Spectamen planicarinatum Ludbrook, 1956: 17, pl. 2, fig. 4.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Spectamen praecursor* Ludbrook, 1956**

Spectamen praecursor Ludbrook, 1956: 18, pl. 2, fig. 5.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Minolia A. Adams, 1860

***Minolia perglobosa* Ludbrook, 1941**

Ethminolia perglobosa Ludbrook, 1941: 86, pl. 4, fig. 5.

Isanda (Minolia) perglobosa (Ludbrook, 1941).—Ludbrook, 1956: 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Family Liotiidae

Austroliotia Cotton, 1948

***Austroliotia lamellosa* (Tenison Woods, 1877) comb. nov.**

Liotia lamellosa Tenison Woods, 1877: 96

Liotia lamellosa Tenison Woods, 1877? .—Tenison Woods, 1879a: 236, pl. 21, fig. 5.

Liotia roblini Johnston, 1880: 39.—Harris, 1897: 284, pl. 8, figs 4a–c; May, 1919: 71.

Liotina lamellosa (Tenison Woods, 1877).—Darragh and Kendrick, 2000: 32, Figs 4H–J.

Distribution. Eucla Basin: Pallinup Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone (type). Age: late Eocene–middle Miocene.

***Austroliotia tasmanica* (Tenison Woods, 1876) comb. nov.**

Liotina (Munditia) tasmanica (Tenison Woods, 1876).—Ludbrook, 1956: 22, pl. 2, fig. 6.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation. Southeastern Australia (living). Age: middle Miocene–present.

Pareuchelus Boettger, 1907

***Pareuchelus?* sp**

Pareuchelus? sp. Darragh, 1997: 70, Figs 2U, V.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

Munditia Finlay, 1926

***Munditia dennanti* (Chapman and Gabriel, 1914) comb. nov.**

Liotia dennanti Chapman and Gabriel, 1914: 315, pl. 27, figs 22, 23.—Chapman, 1916: pl. 70, figs 22, 23.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

***Munditia subquadrata* (Tenison Woods, 1878)**

Liotina (Munditia) subquadrata (Tenison Woods, 1878).—Ludbrook, 1978: 99, pl. 24, figs 6–8.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). Age: late Pliocene–present.

Cyclostrema Marryat, 1819***Cyclostrema varilirata* (Ludbrook, 1941) comb. nov.***Partubiola varilirata* Ludbrook, 1941: 87, pl. 4, fig. 17.*Tubiola* (*Partubiola*) *varilirata* (Ludbrook, 1941).—Ludbrook, 1956: 21.*Distribution.* St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.***Cyclostrema depressispira* (Ludbrook, 1941) comb. nov.***Partubiola depressispira* Ludbrook, 1941: 87, pl. 4, fig. 16.*Tubiola* (*Partubiola*) *depressispira* (Ludbrook, 1941).—Ludbrook, 1956: 20.*Distribution.* St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.**Family Skeneidae***Cirsonella* Angas, 1877***Cirsonella laevis* (Johnston, 1880)***Adeorbis laevis* Johnston, 1880: 33.*Cirsonella laevis* (Johnston, 1880).—May, 1919: 71, pl. 9, fig. 9.*Distribution.* Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.*Leucorhynchia* Crosse, 1869***Leucorhynchia rotulina* Darragh and Kendrick, 2000***Leucorhynchia rotulina* Darragh and Kendrick, 2000: 52, Figs 8F, I, K–N, P, Q, T.*Distribution.* Eucla Basin: Pallinup Formation (type). Age: late Eocene.***Leucorhynchia ventricosa* Darragh and Kendrick, 2000***Leucorhynchia ventricosa* Darragh and Kendrick, 2000: 54, Figs 8O, R, S.*Distribution.* Eucla Basin: Pallinup Formation (type). Age: late Eocene.***Leucorhynchia calva* (Chapman and Crespin, 1928) comb. nov.***Teinostoma calva* Chapman and Crespin, 1928: 107, pl. 6, figs 31a, b.*Distribution.* Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.*Liotella* Iredale, 1915***Liotella annulata* (Tenison Woods, 1879)***Liotella capitata* (Hedley, 1907).—Chapman and Crespin, 1928: 106, pl. 6, fig. 29 non Hedley.*Distribution.* Port Phillip Basin: Gellibrand Formation. Southeastern and eastern Australia (living). Age: late Miocene, present.**Family Conradiidae***Crossea* A. Adams, 1865***Crossea tetragonostoma* (Tenison Woods, 1877)***Delphinula tetragonostoma* Tenison Woods, 1877: 96.*Crossea tetragonostoma* (Tenison Woods, 1877).—May, 1919: 70, pl. 9, fig. 6.*Distribution.* Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.*Crosseola* Iredale, 1924***Crosseola princeps* (Tate, 1890)***Crossea princeps* Tate, 1890: 220; Tate, 1892, pl. 8, figs 6a, b.*Crosseola princeps* (Tate, 1890).—Darragh, 2017: 40, Fig. 1.36.*Distribution.* Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation. Age: late Eocene–middle Miocene.***Crosseola semiornata* (Tate, 1893) comb. nov.***Crossea semiornata* Tate, 1893: 317, pl. 10, fig. 10.*Distribution.* Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.**Family Turbinidae***Astralium* Link, 1807***Astralium?* sp.***Astralium?* sp. Darragh and Kendrick, 2000: 41, Figs 5B–D.*Distribution.* Eucla Basin: Pallinup Formation. Age: late Eocene.*Astraea* Röding, 1798***Astraea hudsoniana* (Johnston, 1888) comb. nov.***Imperator hudsoniana* Johnston, 1888: pl. 29, figs 12, 12a*Astralium* (*Imperator*) *johnstoni* Pritchard, 1896: 116.*Astralium* (*Imperator*) *hudsoniana* (Johnston, 1888).—Chapman, 1922: 9, pl. 2, fig. 15.*Astralium hudsoniana* (Johnston, 1888).—Ludbrook, 1967: 66, pl. 2, figs 7, 8.*Distribution.* Port Phillip Basin: Upper Maude Limestone, Gellibrand Formation. Gippsland Basin: Tambo River Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early–late Miocene.*Bolma* Risso, 1826***Bolma findersi darraghi* Beu and Ponder, 1979***Bolma findersi darraghi* Beu and Ponder, 1979: 20, Figs 5a–h.*Bolma* (*Bolma*) *findersi darraghi* Beu and Ponder, 1979.—Darragh and Kendrick, 2000: 40, Figs 5A, E, F, P, Q.*Distribution.* Eucla Basin: Pallinup Formation. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Bolma anacanthos* Beu and Ponder, 1979**

Bolma anacanthos Beu and Ponder, 1979: 17, Figs 3j–l.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Bolma austroconica* Beu and Ponder, 1979**

Bolma austroconica Beu and Ponder, 1979: 18, Figs 3a, b.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Bolma flindersi flindersi* (Tenison Woods, 1877)**

Astralium (Calcar) flindersii Tenison Woods, 1877: 95.—May 1919: 71, pl. 10, fig. 11.

Bolma flindersi flindersi (Tenison Woods, 1877).—Beu and Ponder, 1979: 21, Figs 4d–j.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Bolma crassigranosa* (Tenison Woods, 1877)**

Gibbula crassigranosa Tenison Woods, 1877: 98.—May, 1919: 70, pl. 8, fig. 4; Ludbrook, 1967: 66, pl. 2, fig. 18.

Astralium (Calcar) ornatissimum Tenison Woods, 1877: 96.

Pachypoma (Lithopoma) ornatissimum (Tenison Woods, 1877).—Cossmann, 1918: 149, pl. 5, fig. 16.

Astralium (Bellastraea) ornatissimum (Tenison Woods, 1877).—Ludbrook, 1967: 66, pl. 2, fig. 16.

Bolma crassigranosa (Tenison Woods, 1877).—Beu and Ponder, 1979: 18, Figs 3d–f.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Bellastraea Iredale, 1924

***Bellastraea aster* Tenison Woods, 1879 comb. nov.**

Adeorbis aster Tenison Woods, 1879a: 238, pl. 21, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Bellastraea hesperus* (Ludbrook, 1956)**

Astraea (Bellastraea) hesperus Ludbrook, 1956: 23, pl. 2, fig. 8.—Ludbrook, 1973: pl. 28, figs 103, 104; Ludbrook, 1978: 101, pl. 10, figs 15–20.

Distribution. Eucla Basin: Roe Calcarene. St Vincent Basin: Dry Creek Sands (type), Point Ellen Formation. *Age:* middle Miocene, late Pliocene.

***Bellastraea undosum* (Chapman, 1912) comb. nov.**

Astralium (Imperator) undosum Chapman, 1912c: 187, pl. 12, fig. 3.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Bellastraea rutidoloma* (Tate, 1893) comb. nov.**

Astraea (Micastraea) rutidoloma (Tate, 1893).—Ludbrook, 1978: 102, pl. 10, figs 24, 25.

Distribution. Eucla Basin: Roe Calcarene. St Vincent Basin,

Point Ellen Formation. Western and South Australia (living). *Age:* late Pliocene–present.

Turbo Linnaeus, 1758

***Turbo tenisoni* Finlay, 1927**

Turbo etheridgei Tenison Woods, 1877: 98 non Lycett, 1857.—Harris, 1897: 273, pl. 8, figs 2a, b.

Turbo (Sarmaticus?) etheridgei Tenison Woods, 1877.—Cossmann, 1918: 115, pl. 6, fig. 19.

Turbo tenisoni Finlay, 1927: 493 nom. nov. for *Turbo etheridgei* Tenison Woods, 1877 non Lycett, 1857.

Turbo (Euninella) tenisoni Finlay, 1927.—Ludbrook, 1967: 66, pl. 2, fig. 15.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Turbo atkinsoni* Pritchard, 1896**

Turbo atkinsoni Pritchard, 1896: 118, pl. 3, fig. 12.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Carswellena Iredale, 1931

***Carswellena* sp. cf. *C. hamiltonensis* Harris, 1897**

Turbo (Euninella) sp. cf. *Turbo (E.) hamiltonensis* Harris, 1897.—Darragh and Kendrick, 2000: 39, Figs 5L, M, O; Darragh and Kendrick, 2010: 35, Figs 5A–F, L.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Carswellena hamiltonensis* (Harris, 1897) comb. nov.**

Turbo hamiltonensis Harris, 1897: 274, pl. 8, figs 3a–c.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Carswellena gruneri* (Philippi, 1846)**

Turbo (Euninella) gruneri (Philippi, 1846).—Ludbrook, 1978: 100, pl. 10, figs 13, 14.

Distribution. Eucla Basin: Roe Calcarene. Southern Australia (living). *Age:* late Pliocene–present.

Lunella Gray, 1850

***Lunella grangensis* (Pritchard, 1906) comb. nov.**

Turbo hamiltonensis Pritchard, 1904: 329, pl. 19, fig. 4 non Harris, 1897.

Turbo grangensis Pritchard, 1906: 117 nom. nov. for *Turbo hamiltonensis* Pritchard, 1904 non Harris, 1897.—Chapman, 1922: 10, pl. 2, figs 13, 14.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

***Lunella undulata* (Lightfoot, 1786)**

Turbo (Subninella) undulatus Lightfoot, 1786.—Ludbrook, 1978: 101, pl. 10, fig. 3.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Ninella Gray, 1850

***Ninella torquata* (Gmelin, 1791)**

Turbo (*Ninella*) *torquatus* Gmelin 1791.—Ludbrook, 1983: 44.

Distribution. St Vincent Basin: Point Ellen Formation. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

Guildfordia (*Opella*) Finlay, 1926

***Guildfordia* (*Opella*)?**

Guildfordia (*Opella*)? Darragh, 1997: 69, Figs 2K, L.

Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

Kaurnella Ludbrook, 1941

***Kaurnella denotata* Ludbrook, 1941**

(Type species of genus OD)

Kaurnella denotata Ludbrook, 1941: 88, pl. 5, fig. 1.—Ludbrook, 1956: 29; Ponder, 1985a: 99, figs 144c, 145c.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Family Colloniidae

Cirsochilus Cossmann, 1888

***Cirsochilus pilulatus* Darragh, 1997**

Cirsochilus pilulatus Darragh, 1997: 70, Figs 1R–X, Z.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Collonia Gray, 1850

***Collonia variabilis* Darragh and Kendrick, 2000**

Collonia variabilis Darragh and Kendrick, 2000: 35, Figs 8A, B, G.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

***Collonia parvula* (Tenison Woods, 1879) comb. nov.**

Crossea parvula Tenison Woods, 1879b: 4, pl. 1, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Collonia omissa* Ludbrook, 1956**

Collonia omissa Ludbrook, 1956: 23, pl. 2, fig. 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Homalopoma Carpenter, 1864

***Homalopoma limnaios* Darragh and Kendrick, 2000**

Homalopoma (*Homalopoma*) *limnaios* Darragh and Kendrick, 2000: 35, Figs 5G, H, K, N.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Eutinochelus Cossmann, 1918

***Eutinochilus otwayensis* (Pritchard, 1904)**

Collonia otwayensis Pritchard, 1904: 331, pl. 18, figs 6, 7.

Eutinochilus otwayensis (Pritchard, 1904).—Darragh and Kendrick, 2000: 36: Figs 4B, C.

Distribution. Eucla Basin: Werillup Formation, Pallinup Formation. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay (type). *Age:* middle Eocene–early Oligocene.

Collonista Iredale, 1918

***Collonista geelongensis* (Pritchard, 1904) comb. nov.**

Collonia geelongensis Pritchard, 1904: 330, pl. 18, figs 8, 9.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Family Phasianellidae

Tricolia Risso, 1826

***Tricolia psila* Darragh and Kendrick, 2000**

Tricolia psila Darragh and Kendrick, 2000: 41, Figs 5I, J.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Phasianella Lamarck, 1804

***Phasianella dennanti* Crespin, 1926**

Phasianella dennanti Crespin, 1926: 119, pl. 9, figs 16, 17.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

***Phasianella australis* (Gmelin, 1791)**

Phasianella australis (Gmelin, 1791).—Ludbrook, 1978: 103, pl. 10, fig. 28; Ludbrook, 1984: 230, Fig. 57I.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Western and southern Australia (living). *Age:* late Pliocene–present.

***Phasianella variegata* Lamarck, 1822**

Phasianella variegata Lamarck 1822.—Ludbrook, 1978: 103.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

Infraclass Neritimorpha
 Order Neritopsida
 Superfamily Neritoidea
Family Neritidae
Nerita Linnaeus, 1758

***Nerita melanotragus* Smith, 1884**

Distribution. Otway Basin: Grange Burn Formation, Werriook Limestone. Eastern Australia (living). *Age:* early Pliocene–present.

***Nerita milnesi* Ludbrook, 1983**

Nerita milnesi Ludbrook, 1983: 44, figs 3e–g.—Ludbrook, 1984: 228, Figs 57 j, k.

Distribution. St Vincent Basin: Point Ellen Formation (type). *Age:* late Pliocene.

Family Phenacolepadidae
Phenacolepas Pilsbry, 1891

***Phenacolepas tela* Ludbrook, 1941**

Phenacolepas tela Ludbrook, 1941: 88, pl. 4, fig. 19.—Ludbrook, 1956: 25.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Infraclass Caenogastropoda
 “Architaenioglossa”
 Order Ampullariida
 Superfamily Campanioidae
Family Campanilidae
Campanile P. Fischer, 1884

***Campanile rupicolum* Darragh, 2002**

Campanile rupicolum Darragh, 2002b: 503, Figs 1A–F.

Distribution. Port Phillip Basin: Upper Maude Limestone (type). *Age:* early Miocene.

***Campanile* sp.**

Campanile sp. McNamara and Kendrick, 1994: 30, Fig. 111.

Distribution. Carnarvon Basin: Poivre Formation. *Age:* middle Miocene.

***Campanile virginiense* Ludbrook, 1971**

Campanile virginiense Ludbrook, 1971: 34, figs 2, 3.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Campanile triseriale* Basedow, 1902**

Campanile triseriale Basedow, 1902: 130, pl. 2, fig. 1.—Ludbrook, 1959b: 231, pl. 5, figs 2–4; Ludbrook, 1971: 34, pl. 3, figs 1, 4.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.

***Campanile symbolicum* Iredale, 1917**

Campanile symbolicum Iredale, 1917.—Ludbrook, 1971: 33, pl. 2, figs 1–7; Ludbrook, 1978: 117, pl. 11, figs 13, 14; Ludbrook, 1983: 45; Ludbrook, 1984: 232, Fig. 58a.

Distribution. Eucla Basin: Roe Calcarenite. Southwestern St Vincent Basin: Point Ellen Formation. Western Australia (living). *Age:* late Pliocene–present.

Family Plesiotrochidae
Plesiotrochus P. Fischer, 1878

***Plesiotrochus semiplicatus* (Ludbrook, 1957) comb. nov.**

Hypotrochus semiplicatus Ludbrook, 1957: 31, pl. 2, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Plesiotrochus monachus* (Crosse and Fischer, 1855)**

Hypotrochus monachus (Crosse and Fischer, 1855).—Ludbrook, 1978: 117, pl. 20, figs 23, 24.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Plesiotrochus penetricinctus* (Cotton, 1932)**

Hypotrochus penetricinctus Cotton, 1932.—Ludbrook, 1978: 118, pl. 20, figs 21, 22.

Distribution. Eucla Basin: Roe Calcarenite. Western southern Australia (living). *Age:* late Pliocene–present.

Superfamily Ampullinoidea
 Family Ampullinidae
Euspirocrommium Sacco, 1890

***Euspirocrommium* sp.**

Euspirocrommium sp. Darragh and Kendrick, 2008: 235, Fig 2.16.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Euspirocrommium* sp.**

Euspirocrommium sp. Darragh, 2017: 51, Figs 1.7–8, 1.18.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Euspirocrommium effusa* (Tate, 1893) comb. nov.**

Ampullina effusa Tate, 1893: 327, pl. 10, figs 2, 2a.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

Ampullina Bowdich, 1822

***Ampullina butleri* McNamara and Kendrick, 1994**

Ampullina butleri McNamara and Kendrick, 1994: 36, Figs 12H, 13A–C.

Distribution. Carnarvon Basin: Poivre Formation. *Age:* middle Miocene.

Megaorder Cerithiimorpha
 Superfamily Cerithioidea
Family Turritellidae
Colposigma Finlay and Marwick, 1937

***Colposigma uniangulata* Darragh, 1997**

Colposigma uniangulata Darragh, 1997: 71, Figs 1B–H, J.—Stilwell, 2003: 254, Figs 4R,S, U, V, X,Y.

Distribution. Otway Basin: Pebble Point Formation (type), Dilwyn Formation.

Age. late Paleocene–early Eocene.

Colpospira J. Donald, 1900

***Colpospira tristira* (Tate, 1885)**

Turritella tristira Tate: 1885b: 227.—Tate, 1893: 338, pl. 8, fig. 8, pl. 10, fig. 3.

Colpospira (*Colpospira*) *tristira* (Tate, 1885).—Garrard, 1972: 290, pl. 27, fig. 2.

Distribution. Gippsland Basin: Jemmys Point Formation. Bass Basin: Fossil Bluff Sandstone (type). *Age:* early Miocene, early Pliocene.

***Colpospira gemmulata* (Tate, 1893)**

Turritella gemmulata Tate, 1893: 338, pl. 8, figs 11, 11a, b.

Colpospira (*Ctenocolpus*) *gemmulata* (Tate, 1893).—Garrard, 1972: 309, pl. 28, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Colpospira calcaria* Garrard, 1972**

Colpospira (*Colpospira*) *calcaria* Garrard, 1972: 291, pl. 27, fig. 3.

Distribution. Gellibrand Formation (type). *Age:* middle Miocene.

***Colpospira platyspira* (Tenison Woods, 1879)**

Turritella platyspira Tenison Woods, 1879a: 234, pl. 20, fig. 13.—Harris, 1897: 236, pl. 7, figs 5a, b; Tate, 1893: 341, pl. 8, fig. 9, 9a.

Colpospira (*Colpospira*) *platyspira* (Tenison Woods, 1879).—Garrard, 1972: 291, pl. 27, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation. *Age:* late Oligocene–middle Miocene.

***Colpospira platyspiroides* (Ludbrook, 1957)**

Turritella (*Colpospira*) *platyspiroides* Ludbrook, 1957: 19, pl. 2, figs 1, 2.

Colpospira (*Colpospira*) *platyspiroides* (Ludbrook, 1957).—Garrard, 1972: 294, pl. 27, fig. 6.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Colpospira conspicabilis* (Tate, 1893)**

Turritella conspicabilis Tate, 1893: 339, pl. 8, figs 7, 7a.

Colpospira (*Colpospira*) *conspicabilis* (Tate, 1893).—Garrard, 1972: 294, pl. 27, fig. 5.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene.

***Colpospira pagodula* (Tate, 1893)**

Turritella pagodula Tate, 1893: 336, pl. 8, figs 10, 10a, b.

Colpospira (*Ctenocolpus*) *pagodula* (Tate, 1893).—Garrard, 1972: 309, pl. 30, fig. 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene–early Pliocene.

***Colpospira australis* (Lamarck, 1822)**

Turritella terebellata Tate, 1893: 336 non Lamarck, 1804.

Colpospira (*Ctenocolpus*) *australis* (Lamarck, 1822).—Garrard, 1972: 305, pl. 28, fig. 3.

Distribution. Otway Basin: Werriook Limestone. Southeast Australia (living). Bass Basin: Cameron Inlet Formation, Memana Formation. *Age:* late Pliocene–present.

Platycolpus J. Donald, 1900

***Platycolpus warburtonii* (Tenison Woods, 1877)**

Turritella warburtonii Tenison Woods, 1877: 99.—Tate, 1893: 337, pl. 8, figs 2, 2a, b; Pritchard, 1896: 113.

Turritella sturtii Tenison Woods, 1877: 99.—Tate, 1893: 338, pl. 8, figs 6, 6a, b.

Turritella warburtoni Tenison Woods, 1877 = *T. sturtii* Tenison Woods, 1877.—Pritchard, 1896: 113.

Turritella (*Ctenocolpus*) *warburtonii* (Tenison Woods, 1877).—Cotton and Woods, 1935: 377, fig. 9.

Turritella (*Ctenocolpus*) *sturtii* (Tenison Woods, 1877).—Cotton and Woods, 1935: 377, fig. 8.

Colpospira (*Platycolpus*) *warburtonii* (Tenison Woods, 1877) = *Turritella sturtii* Tenison Woods, 1876.—Garrard, 1972: 301, pl. 27, figs 15–17, pl. 30, fig. 9.

Distribution. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. *Age:* early Miocene.

***Platycolpus acinella* (Chapman and Crespin, 1928)**

Turritella acinella Chapman and Crespin, 1928: 115, pl. 8, fig. 45.

Colpospira (*Platycolpus*) *acinella* (Chapman and Crespin, 1928).—Garrard, 1972: 302, pl. 27, fig. 11.

Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Platycolpus medioplicatilis* (Chapman and Crespin, 1928)**

Turritella medioplicatilis Chapman and Crespin, 1928: 116, pl. 8, fig. 47.

Colpospira (*Platycolpus*) *medioplicatilis* (Chapman and Crespin, 1928).—Garrard, 1972: 303, pl. 30, fig. 6.

Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Platycolpus trilix* (Cotton and Woods, 1935)**

Turritella (*Ctenocolpus*) *trilix* Cotton and Woods, 1935: 377, fig. 4.—Ludbrook, 1957: 18.

Colpospira (*Platycolpus*) *trilix* (Cotton and Woods, 1935).—Garrard, 1972: 304, pl. 28, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Platycolpus multicincturalis* (Chapman and Crespin, 1928)**

Turritella multicincturalis Chapman and Crespin, 1928: 116, pl. 8, fig. 46.

Colpospira (Platycolpus) multicincturalis (Chapman and Crespin, 1928).—Garrard, 1972: 304, pl. 28, fig. 1.

Port Phillip Basin: Gellibrand Formation (type). Age: late Miocene.

Gazameda Iredale, 1924

***Gazameda acricula* (Tate, 1893)**

Turritella acricula Tate, 1893: 339, pl. 8, fig. 4, 4a, b.

Gazameda acricula (Tate, 1893).—Cotton and Woods, 1935: 373.

Gazameda acricula (Tate, 1893).—Garrard, 1972: 314, pl. 28, fig. 15.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Gazameda victoriensis victorienis* (Cotton and Woods, 1935)**

Turritella acricula var. Tate, 1893: 340, pl. 9, figs 4, 4a.

Turritella (Gazameda) acricula victoriensis Cotton and Woods, 1935: 376.

Gazameda victoriensis victoriensis (Cotton and Woods, 1935).—Garrard, 1972: 315, pl. 28, fig. 16.

Distribution. Otway Basin: Gellibrand Formation (type). Age: middle Miocene.

***Gazameda victoriensis manyung* Garrard, 1972**

Gazameda victoriensis manyung Garrard, 1972: 315, pl. 28, fig. 17.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Gazameda adelaidensis* (Cotton and Woods, 1935)**

Turritella (Gazameda) acricula adelaidensis Cotton and Woods, 1935: 376, fig. 2.—Ludbrook, 1957: 17.

Gazameda adelaidensis (Cotton and Woods, 1935).—Garrard, 1972: 316, pl. 28, fig. 18.

Turritella (Gazameda) adelaidensis Cotton and Woods, 1935.—Ludbrook, 1978: 107, pl. 11, fig. 1?

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene, late Pliocene?

***Gazameda subacricula* (Cotton and Woods, 1935)**

Turritella (Gazameda) subacricula Cotton and Woods, 1935: 376, fig. 3.—Ludbrook, 1957: 18.

Gazameda subacricula (Cotton and Woods, 1935).—Garrard, 1972: 317, pl. 29, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Gazameda iredalei* (Finlay, 1927)**

Turritella (Gazameda) iredalei (Finlay, 1927).—Ludbrook, 1978: 108, pl. 11, fig. 2.

Gazameda iredalei (Finlay, 1927).—Ludbrook, 1983: 45, fig. 3a.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Otway Basin: Whalers Bluff Formation. Southern Australia (living). Age: late Pliocene–present.

Maoricolpus Finlay, 1926

***Maoricolpus septifragus* (Tate, 1893)**

Turritella septifraga Tate, 1893: 336, pl. 8, fig. 5.

Maoricolpus septifragus (Tate, 1893).—Garrard, 1972: 323, pl. 29, fig. 7.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Maoricolpus tasmaniensis* (Cotton and Woods, 1935)**

Turritella acricula var. Tate, 1893: 340, pl. 9, fig. 12

Turritella (Gazameda) acricula tasmaniensis Cotton and Woods, 1935: 376.

Maoricolpus tasmaniensis (Cotton and Woods, 1935).—Garrard, 1972: 324, pl. 29, fig. 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Maoricolpus murrayanus* (Tate, 1885)**

Torcula murrayana Tate, 1885b: 227.

Turritella murrayana (Tate, 1885).—Tate, 1893: 340, pl. 8, figs 3, 3a, b; Pritchard, 1896: 115; Ludbrook, 1969b: 96.9.

Turritella (Maoricolpus) murrayana (Tate, 1885).—Cotton and Woods, 1935: 370; Ludbrook, 1961b: pl. 7, fig. 1.

Turritella (Maoricolpus) latissima Cotton and Woods, 1935: 372, fig. 6.

Maoricolpus murrayanus (Tate, 1885).—Garrard, 1972: 323, pl. 29, fig. 5.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone. Age: early–middle Miocene.

***Maoricolpus subrudis* (Cotton and Woods, 1935)**

Turritella (Maoricolpus) murrayana subrudis Cotton and Woods, 1935: 371, fig. 1.—Ludbrook, 1957: 19.

Maoricolpus subrudis (Cotton and Woods, 1935).—Garrard, 1972: 325, pl. 29, fig. 9.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Spirocolpus Finlay, 1926

***Spirocolpus aldingae* (Tate, 1882)**

Turritella aldingae Tate, 1882: 45.—Tate, 1893: 336, pl. 8, figs 1, 1a, b; Ludbrook, 1961b: pl. 8, fig. 9; Ludbrook, 1969b: 96.4.

Turritella (Zaria) pritchardi Cossmann, 1912b: 199, pl. 8, fig. 6.
Spirocolpus aldingae (Tate, 1882).—Garrard, 1972: 326, pl. 29, fig. 10, fig. 22.

Distribution. St Vincent Basin: Blanche Point Formation (type). Murray Basin: Olney Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay. Age: late Eocene–early Oligocene.

Zeacolpus Finlay, 1926

***Zeacolpus bartoni* Darragh and Kendrick, 2008**

Zeacolpus bartoni Darragh and Kendrick, 2008: 232, Figs 3.8, 3.9, 3.10, 3.32.—Darragh, 2017: 47, Fig. 1.5.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri) (type). Eucla Basin: Werillup Formation, Pallinup Formation. *Age:* middle–late Eocene.

Pareora Marwick, 1931

***Pareora stylacris* (Tate, 1893)**

Mesalia stylacris Tate, 1893: 341, pl. 9, fig. 2.

Pareora stylacris (Tate, 1893).—Garrard, 1972: 330, pl. 30, fig. 3, fig. 32; Ludbrook, 1973: pl. 25, fig. 27.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

Vermicularia Lamarck, 1799

***Vermicularia? funicalis* Crespin, 1926**

Vermicularia funicalis Crespin, 1926: 120, pl. 9, figs 19–21.

Vermicularia funicalis conferta Chapman, 1926: 134, pl. 10, figs 4a, b [doubtful that this is a mollusc].

Distribution. Otway Basin: Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation.

Anguillospira Cossmann, 1912

***Anguillospira adelaidensis* (Tate, 1893) comb. nov.**

Thylacodes adelaidensis Tate, 1893: 343, pl. 9, figs 9, 9a, b.

Distribution. Blanche Point Formation (type). *Age:* late Eocene.

Family Siliquariidae

Tenagodus Guettard, 1770

***Tenagodus oclusus* Tenison Woods, 1877**

Tenagodus oclusus Tenison Woods, 1877: 100.

Tenagodus sp. Darragh and Kendrick, 2008: 233, Figs 2.11, 2.15.

Tenagodus oclusus Tenison Woods, 1877? .—Darragh, 2017: 46, Figs 1.39, 1.42–45, 2.1.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation. Murray Basin: Cadell Marl. Otway Basin. Browns Creek Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* late Eocene–middle Miocene.

***Tenagodus australis* (Quoy and Gaimard, 1834)**

Tenagodus australis (Quoy and Gaimard, 1834).—Ludbrook, 1957: 22; Ludbrook, 1978: 109, pl. 11, fig. 10.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age:* middle Miocene, late Pliocene–present.

Family Batillariidae

Zeacumantus Finlay, 1926

***Zeacumantus bivaricatus* (Ludbrook, 1941)**

Clypeomorus bivaricatus Ludbrook, 1941: 89, pl. 4, fig. 20.

Batillaria (Zeacumantus) bivaricata (Ludbrook, 1941).—Ludbrook, 1957: 23; Ludbrook, 1978: 109.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type).

Age middle Miocene, late Pliocene.

***Zeacumantus multiliratus* (Ludbrook, 1941)**

Clypeomorus multiliratus Ludbrook, 1941: 89, pl. 4, fig. 22.

Batillaria (Zeacumantus) multilirata (Ludbrook, 1941).—Ludbrook, 1957: 24; Ludbrook, 1978: 110.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type).

Age middle Miocene, late Pliocene.

***Zeacumantus diemenensis* (Quoy and Gaimard, 1834)**

Batillaria (Zeacumantus) diemenensis (Quoy and Gaimard, 1834).—Ludbrook, 1957: 23; Ludbrook, 1978: 109, pl. 20, fig. 12; Ludbrook, 1983: 45, fig. 3d; Ludbrook, 1984: 230, Fig. 57q.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands?, Point Ellen Formation. Otway Basin: Whalers Bluff Formation. Southern Australia (living).

Age middle Miocene?, late Pliocene–present.

***Zeacumantus plumbeus* (G.B. Sowerby II, 1855)**

Batillaria (Batillariella) estuarina (Tate, 1893).—Ludbrook, 1957: 24; Ludbrook, 1978: 110.

Bittium (Eubittium) lawleyanum Crosse, 1863.—Ludbrook, 1978: 114, pl. 20, fig. 16.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Southern Australia (living).

Age middle Miocene, late Pliocene–present.

***Zeacumantus nurinensis* (Ludbrook, 1978) comb. nov.**

Batillaria (Batillariella) nurinensis Ludbrook, 1978: 111, pl. 20, figs 13, 14.

Distribution. Eucla Basin: Roe Calcarenite (type). St Vincent Basin: Dry Creek Sands?

Age middle Miocene?, late Pliocene.

Diastomatidae

Diastoma Deshayes, 1850

***Diastoma provisi* Tate, 1894**

Diastoma provisi Tate, 1894: 177, pl. 10, fig. 6.—Ludbrook, 1957: 22, pl. 1, fig. 4; Ludbrook, 1969b: fig. 96.15; Ludbrook, 1971: 33, pl. 1, figs 8–11.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Diastoma adelaidense* Ludbrook, 1971**

Diastoma adelaidense Ludbrook, 1971: 32, pl. 1, figs 3–7, pl. 6, figs 9, 10.—Ludbrook, 1973: pl. 26, fig. 71; Ludbrook, 1978: 112, pl. 11, figs 3, 4; Ludbrook, 1983: 45, fig. 3b; Ludbrook, 1984: 232, Fig. 57s.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type), Melton Limestone, Point Ellen Formation. *Age:* middle Miocene–early Pliocene.

***Diastoma melanoides* (Reeve, 1849)**

Diastoma melanoides (Reeve, 1849).—Ludbrook, 1971: 32, pl. 1, figs 12–21; Ludbrook, 1978: 112, pl. 11, fig. 5; Ludbrook, 1983: 45, fig. 3c; Ludbrook, 1984: 232, Fig. 57r.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Western southern Australia (living). **Age:** late Pliocene–present.

Mereldia Ludbrook, 1941

***Mereldia incommoda* Ludbrook, 1941**

(Type species of the genus OD)

Mereldia incommoda Ludbrook, 1941: 92, pl. 5, fig. 3.—Ponder and de Keyser, 1992: 1022.

Diala (*Mereldia*) *incommoda* (Ludbrook, 1941).—Ludbrook, 1957: 27; Ludbrook, 1978: 115, pl. 20, figs 17, 18.

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene, late Pliocene?

Family Scaliolidae

Finella A. Adams, 1860

***Finella lirata* (Ludbrook, 1941) comb. nov.**

Obtortio liratus Ludbrook, 1941: 90, pl. 4, fig. 24.—Ludbrook, 1957: 23.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Family Dialidae

Diala A. Adams, 1861

***Diala suturalis* (A. Adams, 1853)**

Diala lauta A. Adams, 1862: Ludbrook, 1978: 115.—Ludbrook, 1983: 45.

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Point Ellen Formation. Southern Australia (living). **Age:** late Pliocene–present.

Remarks. Ponder and De Keyser (1992) did not review Ludbrook's material, but they synonymised *D. lauta* with *D. suturalis*.

Family Litiopidae

Litiopa Rang, 1829

***Litiopa punctulifera* Tate, 1894**

Litiopa punctulifera Tate, 1894: 183, pl. 11, figs 9, 9a.

Distribution. Otway Basin: Gellibrand Formation (type). **Age:** middle Miocene.

Family Cerithiidae

Cerithium Bruguière, 1789

***Cerithium wilya* Darragh and Kendrick, 2008**

Cerithium wilya Darragh and Kendrick, 2008: 231, Figs 3.28–31.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri) (type). **Age:** late Eocene.

Clavocerithium Cossmann, 1920

***Clavocerithium kendricki* Darragh, 2017**

Clavocerithium kendricki Darragh, 2017: 40, Figs 1.1–3, 1.19.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Pseudovertagus Vignal, 1904

***Pseudovertagus? longbottomi* Darragh, 2017**

Pseudovertagus? longbottomi Darragh, 2017: 45, Figs 1.4, 1.16–17, 1.40–41.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Pseudovertagus? sp.

Pseudovertagus? sp. Darragh, 2017: 45, Figs 1.37.

Distribution. Eucla Basin: Pallinup Formation. **Age:** late Eocene.

Glyptozaria Iredale, 1924

Glyptozaria sp.

Glyptozaria sp. Darragh, 2017: 43, Figs 1.20, 1.24.

Distribution. Eucla Basin: Pallinup Formation. **Age:** late Eocene.

***Glyptozaria transenna* (Tenison Woods, 1879)**

Turritella transenna Tenison Woods, 1879a: 234, pl. 20, fig. 8.

Glyptozaria transenna (Tenison Woods, 1879).—Garrard, 1972: 334, pl. 29, fig. 17.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Cacozeliana Strand, 1928

***Cacozeliana subgranaria* (Ludbrook, 1957) comb. nov.**

Bittium (*Semibittium*) *subgranarium* Ludbrook, 1957: 27, pl. 2, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Cerithidium Monterosato, 1884

***Cerithidium johnstoni* (Tenison Woods, 1877) comb. nov.**

Rissoina johnstoni Tenison Woods, 1877: 101.—Ludbrook, 1967: 67, pl. 2, fig. 32.

Bittium johnstoni (Tenison Woods, 1877).—May, 1919: 73, pl. 11, fig. 20.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

Thericium Monterosato, 1890

***Thericium fallax* (Ludbrook, 1941)**

Terebralia fallax Ludbrook, 1941: 91, pl. 4, fig. 21.

Thericium (*Thericium*) *fallax* (Ludbrook, 1941).—Ludbrook, 1957: 28, pl. 1, fig. 5; Ludbrook, 1971: 35, pl. 6, figs 6, 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Chavanicerithium Ludbrook, 1957

***Chavanicerithium pyramidale* (Tate, 1885)**

Potamides pyramidale Tate, 1885b: 226.—Ludbrook, 1973: pl. 26, figs 59, 60.

Potamides wynyardense Tate in Tate and Dennant, 1896: 135 nom. nov. for *Potamides pyramidale* Tate, 1885 non [not stated, invalid name change].

Thericium (*Chavanicerithium*) *wynyardense* (Tate, 1896).—Ludbrook, 1971: 37, pl. 6, figs 8, 11.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Chavanicerithium pritchardi* (Harris, 1897)**

Potamides semicostatum Tate, 1885b: 226.

Cerithium pritchardi Harris, 1897: 225, pl. 7, fig. 3 nom. nov. for *Potamides semicostatum* Tate, 1885 non *Cerithium semicostatum* Deshayes, 1833.

Thericium (*Chavanicerithium*) *pritchardi* (Harris, 1897).—Ludbrook, 1967: 67, pl. 4, fig. 15; Ludbrook, 1971: 36, pl. 4, figs 1–4.

Distribution. Otway Basin: Bookpurnong Formation. Bass Basin: Freestone Cove Sandstone (type). Port Phillip Basin: Upper Maude Limestone. Age: early Miocene—middle Miocene.

***Chavanicerithium flemingtonense* (McCoy, 1876)**

Cerithium flemingtonensis McCoy, 1876: 28, pl. 26, figs 3, 4, 4–8, 8a, 9.

Cerithium flemingtonense McCoy, 1876.—Harris, 1897: 226; Gill and Baker, 1955: 40, pl. 1, figs 3, 4.

Thericium (*Chavanicerithium*) *flemingtonense* (McCoy, 1876).—Ludbrook, 1971: 35, pl. 4, figs 5, 6, 9, 10.

Distribution. St Vincent Basin: Melton Limestone. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Chavanicerithium adelaidense* (Howchin and Cotton, 1936)**
(Type species of the genus OD)

Terebralia adelaidensis Howchin and Cotton, 1936: 31, pl. 1, figs 1, 2.

Thericium (*Chavanicerithium*) *adelaidense* (Howchin and Cotton, 1936).—Ludbrook, 1957: 29, pl. 1, fig. 3; Ludbrook, 1971: 35, pl. 4, figs 7, 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Chavanicerithium tatei* (Ludbrook, 1971)**

Thericium torrii (Tate).—Ludbrook, 1957: 30, pl. 1, figs 1, 2; Ludbrook, 1969b: fig. 96. 13 non Tate, 1899.

Thericium (*Chavanicerithium*) *tatei* Ludbrook, 1971: 36, pl. 5, figs 3, 4.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Chavanicerithium torrii* (Tate, 1899)**

Cerithium torrii Tate, 1899a: 109, pl. 1, fig. 2.

Thericium (*Chavanicerithium*) *torrii* [sic] (Tate, 1899).—Ludbrook, 1971: 37, pl. 5, figs 1, 2.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

***Chavanicerithium darraghi* (Ludbrook, 1971)**

Thericium (*Chavanicerithium*) *darraghi* Ludbrook, 1971: 35, pl. 5, figs 7, 8.—Ludbrook, 1978: 113, pl. 11, fig. 6.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

***Chavanicerithium westraliense* (Ludbrook, 1971)**

Thericium (*Chavanicerithium*) *westraliense* Ludbrook, 1971: 37, pl. 5, figs 5, 6.—Ludbrook, 1978: 113, pl. 11, fig. 7.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

Jetwoodsia Ludbrook, 1971

***Jetwoodsia nullarborica* (Chapman and Crespin, 1934)**

Potamides nullarboricum Chapman and Crespin, 1934: 123, pl. 11, figs 31–33.

Jetwoodsia nullarboricum (Chapman and Crespin, 1934).—Ludbrook, 1971: 39, pl. 6, figs 4, 5; Darragh, 2017: 43, Figs 1.22–23, 1.27–28, 1.30–35.

Eucla Basin: Pallinup Formation. St Vincent Basin: Blanch Point Formation (type). Otway Basin: Browns Creek Formation.

***Jetwoodsia apeles* (Tenison Woods, 1879)**

(Type species of genus OD)

Cerithium apeles Tenison Woods, 1879a: 232, pl. 20, fig. 15.—Harris, 1897: 224, pl. 7, figs 1, 2.

Jetwoodsia apeles (Tenison Woods, 1879).—Ludbrook, 1971: 38, pl. 6, figs 1–3.

Distribution. Otway Basin: Gellibrand Formation. Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Manulona Ludbrook, 1941

***Manulona arrugosa* Ludbrook, 1941**

(Type species of genus OD)

Manulona arrugosa Ludbrook, 1941: 91, pl. 4, fig. 26.—Ludbrook, 1957: 25; Ludbrook, 1978: 112, pl. 20, fig. 15.

Distribution. Eucla Basin: Roe Calcarene. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene—late Pliocene.

***Manulona lirasuturalis* Ludbrook, 1941**

Manulona lirasuturalis Ludbrook, 1941: 91, pl. 4, fig. 27.—Ludbrook, 1957: 25.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Orthochetus Cossmann, 1899

***Orthochetus pagoda* (Chapman and Crespin, 1931)**

Mathilda pagoda Chapman and Crespin, 1934: 122, pl. 11, figs 29, 30.

Orthochetus pagoda (Chapman and Crespin, 1934).—Darragh, 2011a: 39, Figs 3A–R; Darragh, 2017: 42, Fig. 1.15.

Distribution: Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age*: late Eocene.

Rhinoclavis Swainson, 1840

***Rhinoclavis* cf. *R. fasciata* (Bruguière, 1792)**

Rhinoclavis (*Rhinoclavis*) cf. *fasciata* (Bruguière, 1792).—McNamara and Kendrick, 1994: 28, Fig. 10I, J.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

***Rhinoclavis* sp.**

Rhinoclavis (*Rhinoclavis*) sp. McNamara and Kendrick, 1994: 28, Fig. 11A, B.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

***Rhinoclavis* sp.**

Rhinoclavis (*Proclava*) sp. McNamara and Kendrick, 1994: 28, Fig. 11C–F.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

***Rhinoclavis subcalvatus* (Tate, 1894) comb. nov.**

Semivertagus subcalvatus Tate, 1894: 178, pl. 11, fig. 3, 3a.—Ludbrook, 1978: 115, pl. 11, figs 8, 9.

Semivertagus capillatus Tate, 1894: 178, pl. 11, fig. 1, 1a.—Ludbrook, 1957: 31, pl. 2, fig. 9.

Distribution: Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). *Age*: middle Miocene–late Pliocene.

Colina H. and A. Adams, 1824

***Colina apicilirata* Tate, 1894**

Colina apicilirata Tate, 1894: 180, pl. 12, fig. 7, 7a, b.

Distribution. Otway Basin: Gellibrand Formation (type). *Age*: middle Miocene.

***Colina fenestralis* Tate, 1894**

Colina fenestralis Tate, 1894: 180, pl. 11, fig. 11.

Distribution. Otway Basin: Gellibrand Formation (type). *Age*: middle Miocene.

Cerithiid sp. 1

Cerithiid genus and species indeterminate 1 Darragh, 2017: 44, Fig. 1.25.

Distribution. Eucla Basin: Pallinup Formation. *Age*: late Eocene.

Cerithiid sp. 2

Cerithiid genus and species indeterminate 1 Darragh, 2017: 44, Figs 1.26, 1.29, 1.38.

Distribution. Eucla Basin: Pallinup Formation. *Age*: late Eocene.

Cerithiid sp.

Cerithiid gen. et sp. indet. A McNamara and Kendrick, 1994: 29, Fig. 11G, H.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

Family Planaxidae

Fossarus Philippi, 1841

***Fossarus refractus* Tate, 1898**

Fossarus refractus Tate, 1898a: 400, pl. 19, fig. 9.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

Family Potamididae

Cerithidea Swainson, 1840

***Cerithidea?* sp.**

Cerithidea? sp. McNamara and Kendrick, 1994: 26, Fig. 10F.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

Potamidid gen. et sp. indet.

Potamidid gen. et sp. indet. McNamara and Kendrick, 1994: 27, Fig. 10G, H.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

Order Littorinida

Superfamily Cingulopsoidea

Family Eatoniellidae

Crassitoniella Ponder, 1965

***Crassitoniella subbicolor* (Ludbrook, 1956)**

Amphithalamus (*Pisinna*) *subbicolor* Ludbrook, 1956: 27, pl. 2, fig. 10.

Crassitoniella erratica subbicolor (Ludbrook, 1956).—Ponder and Yoo, 1978: 638, Fig. 4f.

Distribution. St Vincent Basin: Dry Creek Sands (type). Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone. *Age*: early–middle Miocene.

Eatoniella Dall, 1876

***Eatoniella? jejuna* (Ludbrook, 1956) comb. nov.**

Pellax jejuna Ludbrook, 1956: 24, pl. 2, fig. 9.

“*Pellax*” *jenuna* Ludbrook, 1956.—Robertson 1985: 22, pl. 15, figs 1, 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Family Cingulopsidae

Pseudopisinna Ponder and Yoo, 1981

***Pseudopisinna gregaria* (Laseron, 1950)**

(Type species of the genus OD)

Pseudopisinna gregaria gregaria (Laseron, 1950).—Ponder and Yoo, 1981: 46, Figs 5 d, e, 17a–i.

Distribution. Bass Basin: Cameron Inlet Formation. Eastern Australia (living). Age: late Pliocene–present.

Family Hipponicidae

Hipponix Defrance, 1819

***Hipponix antiquatus* (Linnaeus, 1767)**

Hipponyx antiquatus Linnaeus, 1767.—Tate, 1893: 329.

Distribution. Otway Basin: Muddy Creek Formation, Grange Burn Formation. Australia (living). Age: middle Miocene–present.

Cheilea Modeer, 1793

***Cheilea adelaidensis* Ludbrook, 1941**

Cheilea adelaidensis Ludbrook, 1941: 94, pl. 5, figs 8, 9.—Ludbrook, 1957: 48.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Sabia Gray, 1840

***Sabia conica* (Schuhmacher, 1817)**

Hipponyx australis (Lamarck, 1818).—Tate, 1893: 330.

Hipponix (Sabia) conicus (Schuhmacher, 1817).—Ludbrook, 1957: 49, pl. 4, figs 1–4; Ludbrook, 1978: 123, pl. 13, figs 1, 2; Ludbrook, 1983: 45; Ludbrook, 1984: 234, Fig. 57t.

Distribution. Eucla Basin: Roe Calcarene. St Vincent Basin: Dry Creek Sands, Point Ellen Formation. Otway Basin: Grange Burn Formation. Southern Australia (living). Age: middle Miocene–present.

***Sabia erma* (Cotton, 1939)?**

Hipponix (Antisabia) erma (Cotton, 1939).—Ludbrook, 1983: 45; Ludbrook, 1984: 234, Fig. 57u.

Distribution. St Vincent Basin: Point Ellen Formation. South Australia (living). Age: late Pliocene–present.

Superfamily Vermetoidea

Family Vermetidae

Thylacodes Guettard, 1770

***Thylacodes actinotus* Tate, 1893**

Thylacodes actinotus Tate, 1893: 342, pl. 9, fig. 1.—Darragh, 2017: 53, Figs 3.24–25, 3.28, 3.30.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Thylacodes cratericulus* Tate, 1893**

Thylacodes cratericulus Tate, 1893: 342, pl. 9, fig. 3.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Incertae sedis

The following taxa are probably serpulid worms:

Thylacodes asper Tate, 1893: 343, pl. 9, figs 10, 10a, b.

Thylacodes rudis Tate, 1893: 343, pl. 9, fig. 8.

Vermetus conohelix Tenison Woods, 1877 (p. 100), Tate, 1893: 343, pl. 9, fig. 11 as *Thylacodes*.

Superfamily Littorinoidea

Family Littorinidae

Bembicium Philippi, 1846

***Bembicium altum* (Tate, 1894) comb. nov.**

Risella alta Tate, 1894: 184, pl. 11, figs 4, 4a.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation. Age: late Oligocene–middle Miocene.

***Bembicium auratum* (Quoy and Gaimard, 1834)**

Bembicium auratum (Quoy and Gaimard, 1834).—Ludbrook, 1978: 105, pl. 10, figs 26, 27.

Distribution. Eucla Basin: Roe Calcarene. Southern and eastern Australia (living). Age: late Pliocene–present.

***Bembicium melanostoma* (Gmelin, 1791)**

Bembicium melanostoma (Gmelin, 1791).—Ludbrook, 1984: 230, Fig. 57m, n.

Distribution. St Vincent Basin: Point Ellen Formation. Southern and eastern Australia (living). Age: late Pliocene–present.

Tectarius Valenciennes, 1832

***Tectarius adelaidensis* (Cotton, 1947)**

Nina adelaidensis Cotton, 1947: 666, pl. 21, figs 17, 18.

Tectarius (Nina) adelaidensis (Cotton, 1947).—Ludbrook, 1956: 26.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Superfamily Pterotracheoidea

Family Atlantidae

Atlanta Lesueur, 1817

***Atlanta fossilis* Tate, 1898**

Atlanta fossilis Tate, 1898a: 407, pl. 19, figs 7a, b.

Distribution. Otway Basin: Glen Aire Clay (type). Age: early Oligocene.

Superfamily Triphoroidea
Family Newtoniellidae
Ataxocerithium Tate, 1894

***Ataxocerithium concatenatum* Tate, 1894**

Ataxocerithium concatenatum Tate, 1894: 179, pl. 11, fig. 6; Darragh, 2017: 63, Figs 4.10, 4.29–30.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Ataxocerithium otopleuroides* Darragh, 2017**

Ataxocerithium otopleuroides Darragh, 2017: 64, Figs 4.12–13, 4.19–24.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Ataxocerithium venustulum* Darragh, 2017**

Ataxocerithium venustulum Darragh, 2017: 64, Figs 5.24–25, 5.36–37.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Ataxocerithium multicostulatum* Darragh, 2017**

Ataxocerithium multicostulatum Darragh, 2017: 65, Figs 5.26–27, 5.34–35.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Ataxocerithium biaulax* Darragh, 2017**

Ataxocerithium biaulax Darragh, 2017: 66, Figs 5.28–31.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Ataxocerithium serotinooides* Chapman and Crespin, 1928**

Ataxocerithium serotinooides Chapman and Crespin, 1928: 118, pl. 8, fig. 52.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Ataxocerithium bidenticulatum* Ludbrook, 1957**

Ataxocerithium bidenticulatum Ludbrook, 1957: 25, pl. 2, figs 6, 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Adelacerithium Ludbrook, 1941

***Adelacerithium merultum* Ludbrook, 1941**

(Type species of genus OD)

Adelacerithium merultum Ludbrook, 1941: 90, pl. 4, fig. 23.—Ludbrook, 1957: 26.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Cerithiella Verrill, 1882

***Cerithiella leptopyrga* Stilwell, 2003**

Cerithiella leptopyrga Stilwell, 2003: 258, Figs 5L–N.

Distribution. Otway Basin: Dilwyn Formation (type). *Age:* early Eocene.

***Cerithiella limula* Darragh, 2017**

Cerithiella limula Darragh, 2017: 69, Figs 5.15–16, 5.23.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Cerithiella* sp.**

Cerithiella sp. Darragh and Kendrick, 2008: 236, Fig. 3.15.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Cerithiella* sp.**

Cerithiella sp. Darragh, 2017: 69, Figs 5.9–10.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Cerithiella cribarioides* Tenison Woods, 1879 comb. nov.**

Cerithium cribarioides Tenison Woods, 1879a: 231, pl. 20, fig. 14.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Cerithiella reticosa* (Chapman and Crespin, 1928) comb. nov.**

Cerithiopsis reticosa Chapman and Crespin, 1928: 117, pl. 8, fig. 50.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Coxellaria Ludbrook, 1957

***Coxellaria trigemmata* (Chapman and Crespin, 1928)**

(Type species of genus OD)

Cerithiella trigemmata Chapman and Crespin, 1928: 116, pl. 8, fig. 48.

Cerithiella (*Coxellaria*) *trigemmata* Chapman and Crespin, 1928.—Ludbrook, 1957: 32, pl. 2, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl (type). *Age:* middle Miocene.

***Coxellaria perelongata* (Ludbrook, 1941)**

Cerithiopsis perelongatus Ludbrook, 1941: 90, pl. 4, fig. 25.

Cerithiella (*Coxellaria*) *perelongata* (Ludbrook, 1941).—Ludbrook, 1957: 33.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Coxellaria superspiralis* (Ludbrook, 1957)**

Cerithiella (*Coxellaria*) Ludbrook, 1957: 33, pl. 2, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Eocolina Chavan, 1952

***Eocolina* sp.**

Eocolina sp. Darragh, 2017: 63, Fig. 4.33.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Eumetula Thiele, 1912

***Eumetula* sp.**

Eumetula sp. Darragh, 2017: 66, Figs 5.17–18.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Eumetula? eusmilia* (Tenison Woods, 1879) comb. nov.**

Cerithium eusmilia Tenison Woods, 1879b: 5, pl. 1, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Trituba Jousseume, 1884

***Trituba* sp.**

Trituba sp. Darragh, 2017: 68, Figs 5.1–2.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Trituba umboseriata* Darragh, 2017**

Trituba (*Granulotriforis*) *umboseriata* Darragh, 2017: 68, Figs 5.6–8.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

Family Cerithiopsidae

Cerithiopsis Forbes and Hanley, 1850

***Cerithiopsis pustuloclathrata* Darragh, 2017**

Cerithiopsis pustuloclathrata Darragh, 2017: 62, Figs 4.6–8.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Cerithiopsis?* sp.**

Cerithiopsis? sp. Darragh, 2017: 62, Fig. 5.5.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Cerithiopsid* sp. 1**

Cerithiopsid sp. 1 Darragh, 2017: 62, Fig. 4.9.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Cerithiopsid* sp. 2**

Cerithiopsid sp. 2 Darragh, 2017: 63, Fig. 4.28.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Cerithiopsis scalaris* (Tate, 1886)**

Terebra scalaris Tate, 1886a: 6.

Cerithiopsis scalaris (Tate, 1886).—Tate, 1888: 159.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

Seila A. Adams, 1861

***Seila stenopyrgisca* Darragh, 2017**

Seila stenopyrgisca Darragh, 2017: 61, Figs 4.4–5, 4.11.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Seila* sp.**

Notoseila sp. Darragh and Kendrick, 2008: 236, Figs 3.5, 3.27

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Seila triplanicincta* Ludbrook, 1957**

Seila (*Notoseila*) *triplanicincta* Ludbrook, 1957: 34, pl. 2, figs 13, 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Zaclys Finlay, 1926

***Zaclys salteriana* (Tenison Woods, 1879) comb. nov.**

Cerithium salteriana Tenison Woods, 1879b: 5, pl. 1, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Zaclys mitchellensis* (Chapman and Crespin, 1928) comb. nov.**

Cerithiopsis mitchellensis Chapman and Crespin, 1928: 118, pl. 8, fig. 51

Distribution. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl (type). Age: middle Miocene.

***Zaclys woolnoughi* (Chapman and Crespin, 1933) comb. nov.**

Cerithiopsis woolnoughi Chapman and Crespin, 1933: 69, pl. 5, figs 7, 8.

Distribution. Gippsland Basin: Tambo River Formation? (type). Age: late Miocene.

Joculator Hedley, 1909

***Joculator mulderi* (Tate, 1898) comb. nov.**

Cerithiopsis mulderi Tate, 1898a: 403.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Eocolina Chavan, 1952

***Eocolina* sp.**

Eocolina sp. Darragh, 2017: 63, Fig. 4.33.

Distribution. Eucla Basin: Pallinup Formation. **Age:** late Eocene.

Family Triphoridae

Viriola Jousseume, 1884

***Viriola?* Sp.**

Viriola? sp. Darragh, 2017: 57, Fig. 4.34.

Distribution. Eucla Basin: Pallinup Formation. **Age:** late Eocene.

Mastoniaeformis Jousseume, 1884

***Mastoniaeformis pagodiformis* Darragh, 2017**

Mastoniaeformis pagodiformis Darragh, 2017: 57, Figs 4.14–18.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Triphora Blainville, 1828

***Triphora sulcata* Tenison Woods, 1879**

Triphora sulcata Tenison Woods, 1879a: 233, pl. 20, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

***Triphora planata* Tenison Woods, 1879**

Triphora planata Tenison Woods, 1879b: 6, pl. 1, fig. 12.

Triphora (Ogivia) planata (Tenison Woods, 1879).—Cossmann, 1906: 172, pl. 12, fig. 44.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Inella Bayle, 1879

***Inella moniliferata* Darragh, 2017**

Inella moniliferata Darragh, 2017: 58, Figs 4.1–3.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

***Inella dauciformis* Darragh, 2017**

Inella dauciformis Darragh, 2017: 60, Figs 4.25–27, 4.31–32.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Costatophora B. A. Marshall, 1994

***Costatophora pulcherrima* Darragh, 2017**

Costatophora pulcherrima Darragh, 2017: 60, Figs 4.35–39.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Isotriphora Cotton and Godfrey, 1931

***Isotriphora salisburyensis* (Ludbrook, 1957)**

Triphora (Isotriphora) salisburyensis Ludbrook, 1957: 35, pl. 2, figs 15, 15a.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Monophorus Grillo, 1879

***Monophorus praegranifera* (Ludbrook, 1957) comb. nov.**

Triphora (Notosinister) praegranifera Ludbrook, 1957: 35, pl. 2, figs 16, 16a.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Callitriphora Cotton, 1947

***Callitriphora wilkinsoni* (Tenison Woods, 1879)**

(Type species of genus OD)

Triphora wilkinsoni Tenison Woods, 1879a: 233, pl. 20, fig. 9.

Triphora wilkinsoni psila Tenison Woods, 1879b: 6, pl. 1, fig. 10.

Callitriphora wilkinsoni (Tenison Woods, 1879).—Cotton, 1947: 669.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Seilarex Iredale, 1924

***Seilarex turritelliformis* (Angus, 1877)**

Bittium turritelliforme (Angus, 1877).—Chapman and Crespin, 1928: 117, pl. 8, fig. 49.

Distribution. Port Phillip Basin: Gellibrand Formation. Southeastern and eastern Australia (living). **Age:** late Miocene, present.

Superfamily Epitonioidae

Family Epitoniidae

Acirsa Mörch, 1857

***Acirsa lampra* (Tate, 1890) comb. nov.**

Scalaria (Hemiacirsa) lampra Tate, 1890: 234.—Tate, 1892: pl. 11, fig. 8.

Notacirsa lampra (Tate, 1890).—Darragh, 2017: 54, Figs 3.2, 3.10–11.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. **Age:** late Eocene–early Oligocene.

***Acirsa polynema* (Tate, 1890) comb. nov.**

Scalaria (Hemiacirsa) polynema Tate, 1890: 235.—Tate, 1892: pl. 12, fig. 9.

Distribution. Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

Punctiscala de Boury, 1890***Punctiscala loxopleura* (Tate, 1890) comb. nov.**

Scalaria (*Punctiscala*) *loxopleura* Tate, 1890: 227.—Tate, 1892: pl. 11, fig. 5.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Punctiscala microrhysa* (Tate, 1890) comb. nov.**

Scalaria (*Punctiscala*) *microrhysa* Tate, 1890: 229.—Tate, 1892: pl. 8, fig. 2.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Punctiscala bulbulifera* (Tate, 1890) comb. nov.**

Scalaria (*Punctiscala*) *bulbulifera* Tate, 1890: 228.—Tate, 1892: pl. 11, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Opalia (*Pliciscala*) de Boury, 1890***Opalia* (*Pliciscala*)? sp.**

Opalia (*Pliciscala*)? sp. Darragh, 1997: 74, Figs 3C, D.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

Cirsotrema Mörch, 1852***Cirsotrema pleiophylla* (Tate, 1890)**

Scalaria (*Cirsotrema*) *pleiophylla* Tate, 1890: 231.—Tate, 1892: pl. 12, fig. 1.

Cirsotrema pleiophylla (Tate, 1890).—Darragh, 2017: 55, Figs 3.4–5.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek. Port Phillip Basin: Jan Juc Formation (type). Age: late Eocene–late Oligocene.

***Cirsotrema* sp. aff. *C. pleiophylla* (Tate, 1890)**

Cirsotrema sp. aff. *C. pleiophylla* (Tate, 1890).—Darragh and Kendrick, 2008: 236, Fig. 3.23.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Cirsotrema mariae* (Tate, 1885)**

(Type species of *Caloscala* Tate, 1885, SD Tate, 1890)

Caloscala mariae Tate, 1885a: 3.

Scalaria (*Cirsotrema*) *mariae* (Tate, 1885).—Tate, 1890: 230; Tate, 1892, pl. 12, fig. 2.

Cirsotrema mariae (Tate, 1885).—Ludbrook, 1973: pl. 25, fig. 30.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Cirsotrema orycta* (Tate, 1885) comb. nov.**

Scalaria (*Circuloscala*) *orycta* Tate, 1890: 227.—Tate, 1892: pl. 10, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Cirsotrema transenna* (Tate, 1890) comb. nov.**

Scalaria (*Cirsotrema*) *transenna* Tate, 1890: 229.—Tate, 1892: pl. 10, fig. 9.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Circuloscala foliosa* (Tate, 1890) comb. nov.**

Scalaria (*Circuloscala*) *foliosa* Tate, 1890: 226.—Tate, 1892: pl. 11, fig. 4.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Acrilla H. Adams, 1860***Acrilla leptalea* (Tate, 1893) comb. nov.**

Scalaria (*Acrilla*) *leptalea* Tate, 1893: 317, pl. 10, fig. 1.

Distribution. Otway Basin: Gellibrand Formation (type). Age: middle Miocene.

***Acrilla crebrelamellata* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *crebrelamellata* Tate, 1890: 234.—Tate, 1892: pl. 12, fig. 8.

Epitonium crebrelamellatum (Tate, 1890).—Chapman and Crespin, 1928: 112, pl. 7, fig. 41.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Acrilla cylindracea* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *cylindracea* Tate, 1890: 233.—Tate, 1892: pl. 12, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Acrilla dolicha* (Tate, 1890) comb. nov.**

Scalaria (*Hemiacirsa*) *dolicha* Tate, 1892: pl. 12, fig. 10.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Acrilla escharoides* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *escharoides* Tate, 1890: 232.—Tate, 1892: pl. 12, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Acrilla glyphospira* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *glyphospira* Tate, 1890: 233.—Tate, 1892: pl. 10, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Acrilla gonioides* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *gonioides* Tate, 1890: 233; Tate, 1892: pl. 12, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Acrilla mutica* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *mutica* Tate, 1890: 233.—Tate, 1892: pl. 12, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Acrilla ralphi* (de Boury, 1909) comb. nov.**

(Type species of *Mammiscala* de Boury, 1909 OD)

Scalaria (*Acrilla*) *pachypleura* Tate, 1890: 232 non Conrad, 1841.—Tate, 1892: pl. 12, fig. 3.

Mammiscala ralphi de Boury, 1909: 255 nom nov for *Scalaria* (*Acrilla*) *pachypleura* Tate, 1890 non Conrad, 1841.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Amaea H. and A. Adams, 1853

***Amaea inornata* (Tate, 1890) comb. nov.**

Scalaria (*Acrilla*) *inornata* Tate, 1890: 232.—Tate, 1892: pl. 10, fig. 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Amaea triplicata* (Tate, 1890)**

Scalaria (*Eglisia*) *triplicata* Tate, 1890: 231.—Tate, 1892: pl. 9, fig. 2.

Amaea (*Amaea*) *triplicata* (Tate, 1890).—Ludbrook, 1957: 36, pl. 3, fig. 1

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Rosehill Marl, Jemmys Point Formation. *Age:* middle Miocene–early Pliocene.

Epitonium Röding, 1798

***Epitonium echinophorum* (Tate, 1890) comb. nov.**

Scalaria (*Crisposcala*) *echinophora* Tate, 1890: 226.—Tate, 1892: pl. 11, fig. 1.

Distribution. Murray Basin: Cadell Marl. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Epitonium basinodosum* (Tate, 1890) comb. nov.**

Scalaria (*Nodiscala*) *basinodosa* Tate, 1890: 224.—Tate, 1892: pl. 11, figs 2, 2a.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Punctiscala de Boury, 1890

***Punctiscala eritima* (Tate, 1890) comb. nov.**

Scalaria (*Punctiscala*) *eritima* Tate, 1890: 228.—Tate, 1892: pl. 10, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Punctiscala hamiltonensis* (Tate, 1890) comb. nov.**

Scalaria (*Nodiscala*) *hamiltonensis* Tate, 1890: 225.—Tate, 1892: pl. 10, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Punctiscala prionota* (Tate, 1890) comb. nov.**

Scalaria (*Nodiscala*) *prionota* Tate, 1890: 225.—Tate, 1892: pl. 10, fig. 8.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Clathrus Agassiz, 1837

***Clathrus interstriatus* (Tate, 1890) comb. nov.**

Scalaria (*Clathrus*) *interstriata* Tate, 1890: 224.—Tate, 1892: pl. 10, fig. 1.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Epitoniidae gen et sp. indet.

Epitoniidae gen et sp. indet. Darragh, 1997: 75, Figs 3A, B.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

Epitoniidae gen et sp. indet.

Epitoniid sp. Darragh, 2017: 55, Fig. 3.1.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Janthina Röding, 1798

***Janthina typica* (Bronn, 1861)**

Heligmope dennanti Tate, 1893: 329, pl. 7, figs 5, 5a. Type species of *Heligmope* Tate, 1893 OD.

Acrybia (*Heligmope*) *dennanti* (Tate, 1893).—Cossmann, 1924: 161, pl. 4, figs 11, 12, pl. 9, fig. 3.

Hartungia dennanti (Tate, 1893).—Ludbrook, 1973: 256, pl. 28, figs 93, 94.

Hartungia dennanti dennanti (Tate, 1893).—Ludbrook, 1978: 122, pl. 12, figs 15, 16.

Janthina typica (Bronn, 1861).—Beu, 2017: 165, Figs 25a–c, 1 (with full synonymy of all records of the species).

Distribution. St Vincent Basin: Hallett Cove Sandstone. Otway Basin: Grange Burn Formation (type of *dennanti*). Gippsland Basin: Jemmys Point Formation. Azores, Canary Islands, New Zealand. *Age:* late Miocene–early Pliocene.

***Janthina chavani* (Ludbrook, 1978)**

Hartungia dennanti chavani Ludbrook, 1978: 119, pl. 12, figs 1–14; Ludbrook, 1983: 45, figs 3h–j; Ludbrook, 1984: 232, Figs 57o, p.

Janthina chavani (Ludbrook, 1978).—Beu, 2017: 175, Figs 27a–h (with full synonymy of all records of the species).

Distribution. Perth Basin: “lower” Ascot Formation. Eucla Basin: Roe Calcarenite (type). St Vincent Basin: Point Ellen Formation, Hallett Cove Sandstone. Murray Basin: Bridgewater Limestone. Japan, New Zealand, mid-Atlantic Ridge. Age: late Pliocene–early Pleistocene.

Superfamily Truncatelloidea

Family Tornidae

Tornus Turton and Kingston, 1830

***Tornus? acuticarinata* (Tenison Woods, 1879) comb. nov.**

Adeorbis acuticarinata Tenison Woods, 1879a: 238, pl. 21, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Teinostoma H. and A. Adams, 1853

***Teinostoma depressulum* Chapman and Gabriel, 1914**

Teinostoma depressula Chapman and Gabriel, 1914: 317, pl. 27, figs 24a, b.—Chapman, 1916: pl. 70, figs 24a, b; Ludbrook, 1956: 19, pl. 2, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

***Teinostoma pulcherrimum* Chapman and Gabriel, 1914**

Teinostoma pulcherrima Chapman and Gabriel, 1914: 317, pl. 27, figs 25a–c.—Chapman, 1916: pl. 70, figs 25a–c.

Starkeyna pulcherrima (Chapman and Gabriel, 1914).—Ludbrook, 1956: 20, pl. 2, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Family Hydrococcidae***Hydrococcus brazieri* (Tenison Woods, 1876)**

Hydrococcus graniformis Thiele, 1928.—Ludbrook, 1978: 107.

Distribution. Eucla Basin: Roe Calcarenite. Southwestern Australia, southern Australia (living). Age: late Pliocene–present.

Family Elachisinidae

Elachisina Dall, 1918

***Elachisina* sp.**

Genus and species indeterminate Darragh, 2017: 51, Fig. 3.40.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Remarks. Winston Ponder suggested this assignment.

Dolicrossea Iredale, 1924

***Dolicrossea sublabiata* (Tate, 1890) comb. nov.**

Crossea sublabiata Tate, 1890: 221.—Tate, 1892, pl. 6, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Dolicrossea lauta* (Tate, 1890) comb. nov.**

Crossea lauta Tate, 1890: 222.—Tate, 1892, pl. 8, figs 4, 4a.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Mirolacuna Wenz, 1939

(Type species of genus OD)

***Mirolacuna mirula* (Tate and Cossmann, 1898)**

Streblorhamphus mirulus Tate and Cossmann in Tate, 1898a: 401, pl. 20, figs 4a, b (Type species of *Streblorhamphus* Tate, 1898 non Cabanis and Heine, 1860; Type species of *Sublacuna* Cossmann, 1899 OD non Pilsbry, 1895).

Sublacuna mirula (Tate and Cossmann, 1898).—Cossmann, 1916: 112, pl. 4, figs 44–46.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Mirolacuna obesa* (Tate and Cossmann, 1898) comb. nov.**

Streblorhamphus obesus Tate and Cossmann in Tate, 1898a: 401, pl. 19, fig. 8.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Dissochilus Cossmann, 1888

***Dissochilus eburneus* Tate, 1898**

Dissochilus eburneus Tate, 1898a: 402, pl. 20, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Dissochilus vitreus* Tate, 1898**

Dissochilus vitreus Tate, 1898a: 402, pl. 20, fig. 5.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Remarks. Winston Ponder (pers. com.) stated that the figures are too poor to know where these really belong. Many of Cossmann’s lacuna-like taxa are actually elachisinids. Typical *Lacuna* is quite different from them. The two species of *Dissochilus* are therefore provisionally placed within the Elachisinidae.

Family Vitrinellidae

Circulus Jeffreys, 1865

***Circulus* sp.**

Circulus sp. Stilwell, 2003: 255, figs 4Z, AA, BB.

Distribution. Otway Basin: Dilwyn Formation. Age: early Eocene.

***Circulus* sp.**

Circulus sp. Darragh and Kendrick, 2000: 54, Figs 6B–D.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Pseudoliotia Tate, 1898

***Pseudoliotia micans* (A. Adams, 1850)**

Pseudoliotia angasi (Crosse, 1864).—Ludbrook, 1956: 31, pl. 2, fig. 20.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Whalers Bluff Formation. Southern and eastern Australia (living). *Age:* late Pliocene–present.

Family Anabathridae

Pisinna Monterosato, 1878

***Pisinna varicifera varicifera* (Tenison Woods, 1877)**

Rissoina varicifera Tenison Woods, 1877: 101.

?*Rissoa dubia* Johnston, 1880: 33.—Johnston, 1888, pl. 31, figs 2, 2a (as the name is preoccupied and type missing (May, 1919: 72) this should be considered a nomen dubium).

Estea varicifera (Tenison Woods, 1877).—May, 1919: 73, pl. 11, fig. 19.

Pisinna varicifera varicifera (Tenison Woods, 1877).—Ponder and Yoo, 1976: 197, Fig. 7c.

Distribution. . Otway Basin: Gellibrand Formation. Gippsland Basin: Rose Hill Marl. Bass Basin: Freestone Cove Sandstone (type), Cameron Inlet Formation. *Age:* early Miocene–late Pliocene.

***Pisinna frenchiensis* (Gatliff and Gabriel, 1908)**

Pisinna frenchiensis (Gatliff and Gabriel, 1908).—Ponder and Yoo, 1976: 178, Figs 3e–h, 11e, 13g.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation. Bass Basin: Freestone Cove Sandstone, Cameron Inlet Formation. Southern Australia (living). *Age:* early Miocene–present.

***Pisinna tasmanica* (Tenison Woods, 1876)**

Pisinna tasmanica (Tenison Woods, 1876).—Ponder and Yoo, 1976: 192, Figs 6d–f.

Distribution. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Southern and eastern Australia (living). *Age:* late Miocene–present.

***Pisinna tumida tumida* (Tenison Woods, 1876)**

Pisinna tumida tumida (Tenison Woods, 1876).—Ponder and Yoo, 1976: 194, Fig. 5f.

Distribution. Otway Basin: Grange Burn Formation. Bass Basin: Cameron Inlet Formation. Southern Australia (living). *Age:* early Pliocene–present.

***Pisinna paucirugosa* Ponder and Yoo, 1976**

Pisinna paucirugosa Ponder and Yoo, 1976: 190, Fig. 7h.

Distribution. Port Phillip Basin: Sandringham Sandstone. Eastern Australia (living). *Age:* late Miocene, present.

***Pisinna approxima* (Pettard, 1884)**

Pisinna approxima (Pettard, 1884).—Ponder and Yoo, 1976: 166, Figs 2e–g, 3i–l, 11a, b.

Distribution. Bass Basin: Cameron Inlet Formation. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

***Pisinna dubitabilis* (Tate, 1899)**

Pisinna dubitabilis (Tate, 1899).—Ponder and Yoo, 1976: 174, Fig. 2j.

Distribution. Bass Basin: Cameron Inlet Formation. Eastern South Australia, western Victoria, Tasmania (living). *Age:* late Pliocene–present.

***Pisinna* sp.**

Pisinna sp. Ludbrook, 1978: 106, pl. 24, fig. 2.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Family Irvadiidae

Nozeba Iredale, 1915

***Nozeba gatliffiana* (Chapman and Gabriel, 1914)**

Rissoa gatliffiana Chapman and Gabriel, 1914: 321, pl. 28, fig. 30.—Chapman, 1916, pl. 71, fig. 30.

Nozeba gatliffiana (Chapman and Gabriel, 1914).—Ponder, 1984: 56.

Distribution. Murray Basin: Bookpurnong Formation. *Age:* middle Miocene.

Chevallieria Cossmann, 1888

***Chevallieria balcombensis* Ponder, 1984**

Chevallieria balcombensis Ponder, 1984: 70, Fig. 17B.

Distribution. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation (type). *Age:* late Oligocene–middle Miocene.

***Chevallieria gippslandica* Ponder, 1984**

Chevallieria gippslandica Ponder, 1984: 70, Fig. 17C.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene–early Pliocene.

Family Epigridae

Epigrus Hedley, 1903

***Epigrus cylindraceus* (Tenison Woods, 1878)**

Cingula (*Pelecycidium*) *cylindracea* (Tenison Woods, 1878).—Ludbrook, 1956: 30, pl. 2, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands. Southern and eastern Australia (living). *Age:* middle Miocene–present.

***Epigrus* sp.**

Epigrus sp. Ludbrook, 1978: 105, pl. 24, fig. 1

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Superfamily Rissooidea

Family Lironobidae

Mereлина Iredale, 1915

***Merelina hirta* Criscione and Ponder, 2011**

Merelina cheilostoma (Tenison Woods, 1877).—Ludbrook, 1978: 106, pl. 24, fig. 3 non Tenison Woods.

Merelina hirta Criscione and Ponder, 2011: 78, Figs 2F–J, 3E, 4E, 5C, 6D, 7C.

Distribution. Eucla Basin: Roe Calcarenite. Southeastern and eastern Australia (living). *Age:* late Pliocene–present.

Family Rissoidae
Alvania Risso, 1826

***Alvania varisculpta* (Ludbrook, 1956) comb. nov.**

Merelina (*Linemera*) *varisculpta* Ludbrook, 1956: 28, pl. 2, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Alvania hedleyi* Thiele, 1930 comb. nov.**

Merelina cyrta Cotton, 1944: Ludbrook, 1978: 107, pl. 24, fig. 4.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

Haurakia Iredale, 1915

***Haurakia tateana* (Tenison Woods, 1877)**

Rissoina tateana Tenison Woods, 1877: 114.—Johnston, 1888: pl. 31, fig. 18.

Haurakia tateana (Tenison Woods, 1877).—May, 1919: 72, pl. 11, fig. 18.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Haurakia crassicosta* May, 1922**

Haurakia crassicosta May, 1922: 11, pl. 4, fig. 6.—Ludbrook, 1967: 67, pl. 2, fig. 27.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Haurakia gabrieli* Chapman and Crespin, 1928**

Haurakia gabrieli Chapman and Crespin, 1928: 113, pl. 7, fig. 43.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Haurakia praenovarensis* (Ludbrook, 1956) comb. nov.**

Turboella praenovarensis Ludbrook, 1956: 28, pl. 2, fig. 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Onoba H. and A. Adams, 1852

***Onoba elimattae* (Ludbrook, 1956) comb. nov.**

Turboella elimattae Ludbrook, 1956: 29, pl. 2, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Family Rissoinidae***Rissoina* d'Orbigny, 1841*****Rissoina stevensiana* (Tenison Woods, 1877)**

Rissoa stevensiana Tenison Woods, 1877: 100.

Rissoina stevensiana (Tenison Woods, 1877).—Chapman and Crespin, 1928: 114, pl. 8, fig. 44.

Distribution. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* early–late Miocene.

***Rissoina elegantula* Angas, 1880**

Rissoina elegantula Angas, 1880.—Ludbrook, 1956: 31, pl. 2, fig. 18.

Distribution. St Vincent Basin: Dry Creek Sands. Southern and eastern Australia (living). *Age:* middle Miocene–present.

***Rissoina tinela* Ludbrook, 1956**

Rissoina tinela Ludbrook, 1956: 31, pl. 2, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Superfamily Eulimoidea

Family Eulimidae***Eulima* Risso, 1826*****Eulima danae* Tenison Woods, 1879**

Eulima danae Tenison Woods, 1879b: 2, pl. 1, fig. 1.—Darragh, 2017: 55, Figs 3.13, 3.20, 3.22.

Eulima (*Margineulima*) *danae* Tenison Woods, 1879.—Cossmann, 1921: 195, pl. 5, figs 40, 41.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation. Otway Basin: Brown Creek Formation, Glen Aire Clay, Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. *Age:* late Eocene–middle Miocene.

***Eulima johnstoniana* (Tate, 1885) comb. nov.**

Leiostraca johnstoniana Tate, 1885b: 227.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation. Bass Basin: Freestone Cove Sandstone. *Age:* early–middle Miocene.

***Eulima acutispira* (Tenison Woods, 1879) comb. nov.**

Leiostraca acutispira Tenison Woods, 1879b: 3, pl. 1, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Eulima acutissima* (Sowerby, 1866)**

Leiostraca (*Leiostraca*) *acutissima* Sowerby, 1866.—Ludbrook, 1957: 38, pl. 3, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands. Southern and eastern Australia (living). *Age:* middle Miocene, present.

***Eulima longiconica* Ludbrook, 1941**

Eulima longiconica Ludbrook, 1941: 93, pl. 5, fig. 4.

Melaneella (*Margineulima*) *longiconica* (Ludbrook, 1941).—Ludbrook, 1957: 38.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Eulima minuticonica* Ludbrook, 1941**

Eulima minuticonica Ludbrook, 1941: 93, pl. 5, fig. 5.

Melanella (Margineulima) minuticonica (Ludbrook, 1941).—Ludbrook, 1957: 38.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Melanella Bowdich, 1822

***Melanella?* sp.**

Melanella? sp. Darragh, 2017: 57, Fig. 3.14.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Melanella bicurvata* (Chapman and Crespin, 1928) comb. nov.**

Eulima bicurvata Chapman and Crespin, 1928: 108, pl. 7, fig. 33.

Distribution: Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Gippsland Basin: Wuk Wuk Marl. Age: middle Miocene.

***Melanella pinguicula* (Chapman and Gabriel, 1914) comb. nov.**

Eulima pinguicula Chapman and Gabriel, 1914: 319, pl. 27, fig. 26.—Chapman, 1916, pl. 70, fig. 26.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Curveulima Lameron, 1955

***Curveulima?* sp.**

Curveulima? sp. Darragh, 2017: 56, Fig. 3.15.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Margineulima Cossmann, 1888

***Margineulima?* Sp.**

Margineulima? sp. Darragh and Kendrick, 2008: 237, Fig. 3.25.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

Chileutomia Tate and Cossmann, 1898

***Chileutomia subvaricosa* Tate and Cossmann, 1898**
(Type species of genus OD)

Chileutomia subvaricosa Tate and Cossmann in Tate, 1898a: 404, pl. 20, fig. 3.—Cossmann, 1921: 78, pl.3, figs 16–18.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: early–middle Miocene.

Niso Risso, 1826

***Niso kimberi* Pritchard, 1906**

Niso kimberi Pritchard, 1906: 119.—Darragh, 2017: 56: Fig. 3.16.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Niso psila* Tenison Woods, 1879**

Niso psila Tenison Woods, 1879b: 18, pl. 1, fig. 6.

Niso (Niso) psila Tenison Woods, 1879.—Ludbrook, 1957: 39, pl. 3, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek (type). Age: middle Miocene.

Order Calyptraeida
Superfamily Calyptraeicoidea
Family Calyptraeidae
Sigapatella Lesson, 1831

***Sigapatella placuna* (Tate, 1893)**

Calyptraea placuna Tate, 1893: 331, pl. 7, fig. 4.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Sigapatella subtabulata* (Tate, 1893) comb. nov.**

Trochita calyptraeiformis Tenison Woods (i.e. Lamarck, 1822).—Johnston, 1888: pl. 29, figs 14, 14a.

Calyptraea subtabulata Tate, 1893: 332, pl. 7, figs 1, 1a.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Sigapatella undulata* (Tate, 1893) comb. nov.**

Calyptraea undulata Tate, 1893: 332, pl. 7, figs 3, 3a.

Calyptraea (Sigapatella) crassa Tate, 1893.—Ludbrook, 1957: 51, pl. 4, figs 7, 8 non Tate.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Sigapatella crassa* (Tate, 1893) comb. nov.**

Calyptraea crassa Tate, 1893: 332, pl. 7, figs 2, 2a, 7, 7a.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene.

***Sigapatella tatei* (Finlay, 1927) comb. nov.**

Calyptraea corrugata Tate, 1893: 331, pl. 7, fig. 6 (not fig. 9) non Broderip, 1835.

Zegalerus tatei Finlay, 1927: 497 nom. nov. for *Calyptraea corrugata* Tate, 1893 non Broderip, 1835.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Sigapatella kalimnae* (Chapman and Gabriel, 1914) comb. nov.**

Calyptraea kalimnae Chapman and Gabriel, 1914: 320, pl. 28, figs 28a–c, 29.—Chapman, 1916: pl. 71, figs 28a–c, 29.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene.

Remarks. Probably a synonym of *S. crassa*.

***Sigapatella calyptraeformis* (Lamarck, 1822)**

Calyptraea (*Sigapatella*) *calyptraeformis* (Lamarck, 1822).—Ludbrook, 1978: 125, pl. 13, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite. Southern and eastern Australia (living). Age: late Pliocene–present.

Calyptropsis Tate, 1893

***Calyptropsis arachnoidea* Tate, 1893**

(Type species of genus SD Harris, 1897)

Calyptropsis arachnoideus Tate, 1893: 333, pl. 7, fig. 9.—Ludbrook, 1973: pl. 25, figs 31, 32.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Calyptropsis umbilicata* (Johnston, 1885)**

Crepidula umbilicata Johnston, 1885b: 232, Figs.—Johnston, 1888, pl. 32, figs 10, 10a.

Calyptropsis umbilicata (Johnston, 1885).—Tate, 1893: 333; Ludbrook, 1967: 67, pl. 2, figs 38, 39.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Calyptropsis turbinata* (Tenison Woods, 1879)**

Trochita turbinata Tenison Woods, 1879a: 238, pl. 21, fig. 1.

Calyptropsis turbinata (Tenison Woods, 1879).—Tate, 1893: 333.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Maoricrypta Finlay, 1926

***Maoricrypta hainsworthii* (Johnston, 1885) comb. nov.**

Crepidula hainsworthii Johnston, 1885c: 233, figs a–c; Johnston, 1888: pl. 32, figs 13, 13a, b; Tate, 1893: 330.

Crepidula (*Zeacrypta*) *hainsworthii* [sic] Johnston, 1885.—Ludbrook, 1957: 53, pl. 4, figs 13, 14; Ludbrook, 1967: 67, pl. 2, figs 35–37.

Distribution. St Vincent Basin: Dry Creek Sands. Bass Basin: Freestone Cove Sandstone (type). Age: early–middle Miocene.

***Maoricrypta immersa* (Angas, 1865)**

Crepidula unguiformis Lamarck, 1822.—Tate, 1893: 330.

Crepidula (*Zeacrypta*) *immersa* (Angas, 1865).—Ludbrook, 1957: 52, pl. 4, figs 9–11; Ludbrook, 1978: 126, pl. 13, figs 5, 6.

Distribution. Eucla Basin Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation, Grange Burn Formation, Werrikoo Limestone. Port Phillip

Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. Southern and eastern Australia (living). Age: middle Miocene–present.

***Maoricrypta dubitabilis* (Tate, 1893) comb. nov.**

Crepidula dubitabilis Tate, 1893: 330, pl. 9, fig. 5.

Crepidula (*Zeacrypta*) *dubitabilis* Tate, 1893.—Ludbrook, 1957: 53, pl. 4, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Jemmys Point Formation (type). Age: middle Miocene–early Pliocene.

Superfamily Capuloidea

Family Capulidae

Capulus Montfort, 1810

***Capulus circinatus* Tate, 1893**

Capulus circinatus Tate, 1893: 334, pl. 7, fig. 8.

Capulus (*Capulus*) *circinatus* Tate, 1893.—Ludbrook, 1957: 51, pl. 4, figs 5, 6?

Distribution. St Vincent Basin: Blanche Point Formation (type), Dry Creek Sands? Age: late Eocene, middle Miocene.

***Capulus danieli* Crosse, 1858**

Capulus danieli Crosse, 1858.—Tate, 1893: 334.

Distribution. St Vincent Basin: Hallett Cove Sandstone. Otway Basin: Muddy Creek Formation, Grange Burn Formation. Australia, Philippines, Japan (living). Age: middle Miocene–present.

Trichamathina Habe, 1962

***Trichamathina violaceus* Angas, 1867**

Capulus violaceus Angas, 1867.—Ludbrook, 1978: 125, pl. 24, fig. 15.

Distribution. Eucla Basin: Roe Calcarenite. Eastern Australia (living). Age: late Pliocene–present.

Cerithioderma Conrad, 1860

***Cerithioderma angulifera* (Tate, 1890) comb. nov.**

Trichotropis angulifera Tate, 1890: 186.—Tate, 1892: pl. 13, fig. 5.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Cerithioderma fenestrata* (Tate, 1890) comb. nov.**

Trichotropis fenestrata Tate, 1890: 191.—Tate, 1892: pl. 13, fig. 7.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Cerithioderma tabulata* (Tate, 1890)**

Trichotropis tabulata Tate, 1890: 187.—Tate, 1892: pl. 13, fig. 4.

Cerithioderma tabulata (Tate, 1890).—Darragh, 2017: 47, Figs 1.14, 1.21.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

Sirius Hedley, 1900

***Sirius* sp.**

Sirius sp. Darragh, 2017: 47, Figs 1.12–13.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Sirius interlineatus* (Tate, 1890) comb. nov.**

Trichotropis interlineata Tate, 1890: 190.—Tate, 1892: pl. 13, fig. 2.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Sirius triplicatus* (Tate, 1890) comb. nov.**

Trichotropis triplicata Tate, 1890: 188.—Tate, 1892: pl. 13, fig. 6.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Sirius costatus* (Tate, 1890) comb. nov.**

Trichotropis costata Tate, 1890: 191.—Tate, 1892: pl. 13, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Sirius quinqueliratus* (Tate, 1890) comb. nov.**

Trichotropis quinquelirata Tate, 1890: 189.—Tate, 1892: pl. 12, fig. 12.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Sirius apiciliratus* (Tate, 1890) comb. nov.**

Trichotropis apicilirata Tate, 1890: 190.—Tate, 1892: pl. 12, fig. 1.

Distribution. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. *Age:* late Oligocene–middle Miocene.

***Sirius accrescens* (Tate, 1890) comb. nov.**

Trichotropis accrescens Tate, 1890: 189.—Tate, 1892: pl. 12, fig. 11.

Cerithioderma accrescens (Tate, 1890).—Ludbrook, 1957: 50.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Sirius subquadratus* (Tate, 1890) comb. nov.**

Trichotropis subquadrata Tate, 1890: 188.—Tate, 1892: pl. 12, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Icuncula Iredale, 1924

***Icuncula occidentalis* Ludbrook, 1978**

Icuncula occidentalis Ludbrook, 1978: 124, pl. 20, figs 25–28.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Nomen dubium

May (1919a: 73) stated that the type specimen of *Pileopsis navicelloides* Johnston, 1880 (Johnston, 1880: 39) had been crushed to powder and the species was unrecognisable.

Order Strombida

Superfamily Stromboidea

Family Xenophoridae

Xenophora Fischer von Waldheim, 1807

***Xenophora* sp. cf. *X. tatei* Harris, 1897**

Xenophora sp. cf. *X. tatei* Harris, 1897.—Darragh and Kendrick, 2008: 233, Figs 2.12–2.13; Darragh, 2017: 54.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanch Point Formation. *Age:* late Eocene.

***Xenophora* sp.**

Xenophora (*Tugurium*) *tatei* Harris, 1897.—Chapman, 1922: 11 (in part).

Xenophora sp. Ponder, 1983b: 29, figs 18a–c.

Distribution. Port Phillip Basin: Jan Juc Formation. *Age:* early Oligocene.

***Xenophora* sp.**

Xenophora tatei Harris, 1897.—Ludbrook, 1973: pl. 26, fig. 73 non Harris, 1897.

Xenophora sp. Ponder, 1983b: 29, figs 19f–k.

Distribution. Murray Basin: Cadell Marl, Morgan Limestone. *Age:* middle Miocene.

***Xenophora tatei* Harris, 1897**

Xenophora (*Tugurium*) *tatei* Harris, 1897: 254, pl. 7, figs 7a, b.—Chapman, 1922: 11 (in part).

Xenophora (*Xenophora*) *tatei* Harris, 1897.—Ponder, 1983b: 28, Figs 13b, 19a–e.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Xenophora flindersi ludbrookae* Ponder, 1983**

Xenophora neozelanica Suter, 1908.—Ludbrook, 1978: 126, pl. 13, figs 7–11.

Xenophora (*Xenophora*) *flindersi ludbrookae* Ponder, 1983b: 27, Figs 13d, 17i, j.

Distribution. Perth Basin: ‘younger’ Ascot Formation. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene–early Pleistocene.

Family Struthiolariidae

Tylospira G. F. Harris, 1897

***Tylospira glomerata* Darragh, 1991**

Tylospira glomerata Darragh, 1991: 154, Figs 1B, C, H–J.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). *Age:* early Miocene.

***Tylospira marwicki* (Finlay, 1931)**

Pellicaria marwicki Finlay, 1931: 17.

Pellicaria howchini Cotton, 1934: 7, fig.

Tylospira coronata marwicki (Finlay, 1931).—Ludbrook, 1941: 89; Ludbrook, 1957: 53, pl. 1, figs 6, 7; Ludbrook, 1984, Fig. 1a.

Tylospira marwicki (Finlay, 1931).—Ludbrook, 1969b: fig. 96. 12; Darragh, 1991: 162, Figs 5A–H.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Tylospira clathrata* (Tate, 1885)**

Pellicaria clathrata Tate, 1885a: 2; Tate, 1889: 170, pl. 10, fig. 9.

Tylospira clathrata (Tate, 1885).—Darragh, 1991: 155, Figs 1A, D, E–G, K.

Distribution. Gippsland Basin: Rose Hill Marl (type). Age: late Miocene.

***Tylospira coronata* (Tate, 1885)**

Pellicaria coronata Tate, 1885a: 2.—Tate, 1889: 171, pl. 10, figs 6, 13.

Struthiolaria (Pellicaria) coronata (Tate, 1885).—Cossmann, 1904: 106, pl. 8, figs 5, 6.

Tylospira coronata (Tate, 1885).—Harris, 1897: 222, pl. 6, figs 9a, b; Marwick, 1924b, 166, fig. 8a; Marwick, 1960: 43; Ludbrook, 1969b: fig. 96. 11; Ludbrook, 1973: pl. 27, fig. 85; Darragh, 1991: 156, Figs 2A–K.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Age: middle Miocene–late Pliocene.

***Tylospira lirata* (Tate, 1889)**

(Type species of *Singletonaria* Marwick, 1952 OD)

Struthiolaria lirata Tate, 1889: 169, pl. 10, fig. 11.

“*Struthiolaria*” *lirata* Tate, 1889.—Marwick, 1924b: 163, fig. 4.

Singletonaria lirata (Tate, 1889).—Marwick, 1952: 83, figs 1, 2.

Tylospira lirata (Tate, 1889).—Darragh, 1991: 159, Figs 3A–J.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene–early Pliocene.

***Tylospira gilli* Marwick, 1960**

Tylospira (Singletonaria) gilli Marwick, 1960: 41, Figs 1a, b.

Tylospira gilli Marwick, 1960.—Darragh, 1991: 160, Figs 4A–I.

Distribution. Bass Basin: Cameron Inlet Formation (type). Age: late Pliocene.

***Tylospira pagodiformis* Ludbrook, 1978**

Tylospira pagodiformis Ludbrook, 1978: 127, pl. 13, figs 12–15.—Darragh, 1991: 165, Figs 7A, B, I–L.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

***Tylospira puteana* Darragh, 1991**

Tylospira puteana Darragh, 1991: 166, Figs 7C–H.

Distribution. Perth Basin: Ascot Formation, ‘Jandakot beds’ (type). Age: late Pliocene–early Pleistocene.

***Tylospira incilata* Darragh, 1991**

Tylospira incilata Darragh, 1991: 164, Figs 6A–F.

Distribution. Bass Basin: Memana Formation (type). Age: early Pleistocene.

Family Seraphsidae

Seraphs Montfort, 1810

***Seraphs* sp.**

Seraphs sp. Darragh, 2017: 52, Fig. 3.21.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Terebellum Lamarck, 1788

***Terebellum terebellum* (Linnaeus, 1758)**

Terebellum terebellum (Linnaeus, 1758).—McNamara and Kendrick, 1994: 34, Figs 12E, F.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

Family Strombidae

Laevistrombus Abbott, 1960

***Laevistrombus denticostatus* (Harris, 1897) comb. nov.**

Strombus denticostatus Harris, 1897: 217, pl. 6, fig. 8.

Distribution. Eucla Basin: Nullarbor Limestone (type). Age: middle Miocene.

Strombus Linnaeus, 1758

***Strombus* s.l. sp.**

Strombus s.l. sp. McNamara and Kendrick, 1994: 33, Fig. 12D.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

***Strombus?* sp.**

?*Strombus* sp. Ludbrook, 1978: 128, pl. 13, fig. 16.

Distribution. Eucla Basin: Roe Calcarene. Age: late Pliocene.

Tricornis Joussemae, 1886

***Tricornis* aff. *T. maximus* (Martin, 1883)**

Strombus (Tricornis) aff. *maximus* Martin.—McNamara and Kendrick, 1994: 31, Fig. 11J

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

***Tricornis?* sp.**

Strombus (Tricornis?) sp. A McNamara and Kendrick, 1994: 32, Fig. 12A.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

Lentigo Jousseume, 1886

***Lentigo* sp.**

Strombus (Lentigo) sp. A McNamara and Kendrick, 1994: 32, Figs 12B, C.

Distribution. Carnarvon Basin: Poivre Formation. *Age:* middle Miocene.

Family Aporrhaidae

Drepanocheilus Meek, 1864

***Drepanochilus retisurus* Stilwell, 2003**

Drepanocheilus (Tulochilus) retisurus Stilwell, 2003: 257, Figs 5A–G.

Distribution. Otway Basin: Dilwyn Formation (type). *Age:* early Eocene.

Order Cypraeida

Superfamily Velutinoidea

Family Eratoidae

Proterato Schilder, 1927

***Proterato australis* (Tate, 1879)**

Erato australis Tate, 1879: 96; Tate, 1890: 216.—Tate, 1892: pl. 13, fig. 9.

Erato (Proterato) australis (Tate, 1878 [sic]).—Schilder, 1927: 57.

Proterato (Proterato) australis (Tate, 1878 [sic]).—Schilder, 1933: 253, 257; Schilder, 1935: 329.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

***Proterato tatei* Schilder, 1933**

Proterato (Proterato) tatei Schilder, 1933: 253, 257, 273, fig. 9.—Schilder, 1935: 329, fig. 2.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Proterato minor* (Tate, 1879)**

Erato minor Tate, 1879: 96; Tate, 1890: 215.—Tate, 1892: pl. 13, figs 10, 10a.

Erato (Proterato) minor (Tate, 1890).—Schilder, 1927: 57.

Proterato (Cypraeerato) minor (Tate, 1890).—Schilder, 1933: 254, 257, 267, fig. 27; Schilder, 1935: 329, 330.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Archierato Schilder, 1933

***Archierato pyrulata* (Tate, 1890)**

Erato pyrulata Tate, 1890: 216.—Tate, 1892: pl. 13, figs 12, 12a.

Erato (Erato) pyrulata (Tate, 1890).—Schilder, 1927: 58.

Archierato pyrulata (Tate, 1890).—Schilder, 1933: 253, 257, 270, fig. 8; Schilder, 1935: 328, fig. 1; Darragh, 2017: 53, figs 3.3, 3.6–9, 3.17.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

***Archierato duplicata* (Johnston, 1888)**

Erato duplicata Johnston, 1888: pl. 31, fig. 14.—Tate, 1890: 217.

Erato (Erato) duplicata (Johnston, 1888).—Schilder, 1927: 59.

Archierato duplicata (Johnston, 1888).—Schilder, 1933: 253, 257, 264; Schilder, 1935: 328.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Oligocene.

***Archierato morningtonensis* (Tate, 1890)**

Erato morningtonensis Tate, 1890: 217.

Erato (Erato) morningtonensis (Tate, 1890).—Schilder, 1927: 58.

Archierato morningtonensis (Tate, 1890).—Schilder, 1933: 253, 257; Schilder, 1935: 328.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Archierato obesula* (Chapman, 1922)**

Erato obesula Chapman, 1922: 12, pl. 3, fig. 18.

Erato (Erato) obesula (Chapman, 1922).—Schilder, 1927: 58

Archierato obesula (Chapman, 1922).—Schilder, 1933: 253, 257, 268; Schilder, 1935: 328.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Sulcerato Finlay, 1930

***Sulcerato subaustralis* (Ludbrook, 1958) comb. nov.**

Proterato (Cypraeerato) subaustralis Ludbrook, 1958: 43, pl. 1, figs 1, 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Sulcerato illota* (Tate, 1890)**

(Type species of genus OD)

Erato (Eratopsis) illota Tate, 1890: 217.—Tate, 1892: pl. 13, fig. 11.

Sulcerato illota (Tate, 1890).—Finlay, 1930: 40.

Proterato (Proterato) illota (Tate, 1890).—Schilder, 1933: 253, 257, 265; Schilder, 1935: 329, fig. 3.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Eratoena Iredale, 1935

***Eratoena harrisi* (Schilder, 1941)**

Erato minor Tate, 1878 [sic].—Harris, 1897: 215 non Tate.

Proterato (Cypraeerato) minor (Tate, 1890).—Schilder, 1933: 254, 257, fig. 27.

Proterato (Eratoena) harrisi Schilder, 1941: 69.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Family Triviidae

Semitrivia Cossmann, 1903

***Semitrivia erugata* (Tate, 1890)**

(Type species of genus OD)

Trivia erugata Tate, 1890: 214.—Tate, 1892: pl. 9, figs 5, 5a.

Cypraea (Semitrivia) erugata (Tate, 1890).—Cossmann, 1903: 172, pl. 9, figs 4, 5.

Triviella (Semitrivia) erugata (Tate, 1890).—Schilder, 1927: 60, 122.

Semitrivia erugata (Tate, 1890).—Schilder, 1935: 331, fig. 4; Fehse, 2002: 14, 24, pl. 3, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Triviella Jousseaume, 1884

***Triviella pompholugota* (Tate, 1890)**

Trivia pompholugota Tate, 1890: 214.

Trivia (Trivirostra) pompholugota (Tate, 1890).—Schilder, 1927: 62, 124.

Semitrivia? pompholugota (Tate, 1890).—Schilder, 1935: 331.

Triviella pompholugota (Tate, 1890).—Fehse and Grego, 2004: 7, pl. 27, fig. 110; Darragh, 2017: 52, Figs 3.12, 3.18, 3.26–27, 3.29, 3.34; Fehse and Grego, 2018: 30, Fig. 2.

Triviella angushawkei Fehse and Grego, 2018: 29, pl. 1, figs 1–4, fig. 1.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation (type of *T. angushawkei*). *Age:* late Eocene.

***Triviella korneli* Fehse and Grego, 2018**

Triviella korneli Fehse and Grego, 2018: 31, pl. 2, figs 1–5.

Distribution. Otway Basin: Browns Creek Formation (type).
Age: late Eocene.

Trivellona Iredale, 1931

***Trivellona avellanoides* (McCoy, 1867)**

Cypraea (Trivia) avellanoides McCoy, 1867c: 436.—McCoy, 1876: 36, pls 28, 29, figs 3, 3a–c; Cossmann, 1903: 171, pl. 9, figs 2, 3.

Trivia avellanoides (McCoy, 1876) [sic].—Tate, 1890: 213 in part.

Trivia (Trivirostra) avellanoides (McCoy).—Schilder, 1927: 63, 124.

Nototrivia avellanoides (McCoy, 1867).—Schilder, 1935: 336.

Nototrivia avellanoides daphnes Schilder, 1966: 273

Trivellona avellanoides (McCoy, 1867).—Fehse, 2002: 23, pl. 1, fig. 6. Fehse and Grego, 2004: 7, pl. 26, figs 105, 106, pl. 30, figs 122, 123; Fehse and Grego, 2008: Figs 4M–P, 5A.

Trivellona daphnes (Schilder, 1966).—Fehse and Grego, 2004: 22, pl. 26, fig. 107, pl. 30, fig. 121; Fehse and Grego, 2008: Figs 3M–O, 5B.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Trivellona wirrata* (Ludbrook, 1941)**

Ellatrivia wirrata Ludbrook, 1941: 94, pl. 5, fig. 16.—Ludbrook, 1958: 44.

Trivellona wirrata (Ludbrook, 1941).—Fehse and Grego, 2010: 46, pl. 12, Figs 50A–D.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene

***Trivellona subtilis* (Schilder, 1935)**

Nototrivia subtilis Schilder, 1935: 335, figs 14, 15.

Trivellona subtilis (Schilder, 1935).—Fehse and Grego, 2004: 16, pl. 24, figs 99, 100, pl. 25, fig. 104.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trivellona transiens* (Schilder, 1935)**

Nototrivia transiens Schilder, 1935: 335, fig. 13.

Trivellona transiens (Schilder, 1935).—Fehse and Grego, 2004: 15, pl. 24, figs 96, 97, pl. 25, figs 101, 102.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trivellona tatei* (Schilder, 1935)**

Nototrivia tatei Schilder, 1935: 335, 336, fig. 16.

Trivellona tatei (Schilder, 1935).—Fehse and Grego, 2004: 17, pl. 24, fig. 98, pl. 25, fig. 103, pl. 31, figs 125, 126; Fehse and Grego, 2012: 6, figs 3m–t.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Trivellona darraghi* Fehse and Grego, 2008**

Trivellona darraghi Fehse and Grego, 2008: 206, Figs 1A–V, 2A–T, 5E.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trivellona lochi* Fehse and Grego, 2008**

Trivellona lochi Fehse and Grego, 2008: 209, Figs 4A–L, 5D.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trivellona kendricki* Fehse and Grego, 2008**

Trivellona kendricki Fehse and Grego, 2008: 212, Figs 3A–L, 5C.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trivellona felixlorenzi* Fehse and Grego, 2012**

Trivellona felixlorenzi Fehse and Grego, 2012: 6, Figs 3A–L.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

Ellatrivia Cotton and Godfrey, 1932

***Ellatrivia torquayensis* Schilder, 1935**

Ellatrivia minima torquayensis Schilder, 1935: 332, 334, fig. 9.

Ellatrivia torquayensis Schilder, 1935.—Fehse and Grego, 2010: 35, pl. 8, figs 37a–c.

Distribution. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Eocene–late Oligocene.

***Ellatrivia minima* (Tenison Woods, 1879)**

Trivia minima Tenison Woods, 1879b: 4, pl. 1, figs 8, 8a.

Ellatrivia minima minima (Tenison Woods, 1879).—Schilder, 1935: 332, 333, fig. 8.

Ellatrivia minima (Tenison Woods, 1879).—Fehse and Grego, 2010: 23, pl. 7, figs 29a–f.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia longisulcata* Schilder, 1932**

Ellatrvia longisulcata Schilder, 1932a: 256, fig. 1.—Fehse and Grego, 2010: 32, pl. 12, figs 51a–c.

Ellatrvia longisulcata longisulcata Schilder, 1935: 332, 334, fig. 10.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia crassicostata* Schilder, 1935**

Ellatrvia longisulcata crassicostata Schilder, 1935: 332, 334, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia antipodum* Schilder, 1935**

Ellatrvia antipodum Schilder, 1935: 332, fig. 5.—Fehse and Grego, 2010: 34, pl. 8, figs 35a–c, pl. 9, figs 42a–c.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia iredalei* Schilder, 1935**

Ellatrvia iredalei Schilder, 1935: 332, 334, fig. 12.—Fehse and Grego, 2010: 36, pl. 8, figs 33a–c.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia constricta* (Schilder, 1941)**

Ellatrvia antipodum var. A Schilder, 1935: 333, fig. 6.

Niveria (*Ellatrvia*) *constricta* Schilder, 1941: 74.

Ellatrvia constricta (Schilder, 1941).—Fehse and Grego, 2010: 38, pl. 8, figs 36a–c.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia columellaris* (Schilder, 1941)**

Ellatrvia antipodum var. B Schilder, 1935: 333, fig. 7.

Niveria (*Ellatrvia*) *columellaris* Schilder, 1941: 74.

Ellatrvia columellaris (Schilder, 1941).—Fehse and Grego, 2010: 38, pl. 8, figs 34a–c.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Ellatrvia goudeyi* Fehse and Grego, 2012**

Ellatrvia goudeyi Fehse and Grego, 2012: 1, Figs 1A–N, 2A–L.

Distribution. Bass Basin: Memana Formation (type). *Age:* early Pleistocene.

***Ellatrvia merces* (Iredale, 1924)**

Ellatrvia merces (Iredale, 1924).—Ludbrook, 1978: 129, pl. 20, figs 31, 32.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Superfamily Cypraeoidea

Family Cypraeidae

Zoila Jousseaume, 1884

***Zoila viathomsoni* Darragh, 2011**

Zoila viathomsoni Darragh, 2011b: 5, Figs 1D, 2C, 5B, C, H, L; Darragh, 2017: 48, Figs 3.33, 3.38–39.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Zoila didymorhyncha* Darragh, 2011**

Zoila didymorhyncha Darragh, 2011b: 7, Figs 1E, 6A–E, I.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Zoila glomerabilis* Darragh, 2011**

Zoila glomerabilis Darragh, 2011b: 9, Figs 6F–H, 7A–F.

Distribution. Otway Basin: Fishing Point Marl. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene–early Miocene.

***Zoila dolichorhyncha* Darragh, 2011**

Zoila dolichorhyncha Darragh, 2011b: 11, Figs 8A–F, 9C–E.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Zoila mulderi* (Tate, 1892)**

Cypraea mulderi Tate, 1892: pl. 9, fig. 4; Tate, 1893: 316.

Umbilia (*Gigantocypraea*) *mulderi* (Tate, 1892).—Schilder, 1927: 86, 136.

Zoila (*Gigantocypraea*) *mulderi* (Tate, 1892).—Wilson and Clarkson, 2004: 51, pl. 56.

Zoila mulderi (Tate, 1892).—Darragh, 2011b: 14, Figs 9A, B, 10A–F.

Distribution. Otway Basin: Fishing Point Marl, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* early Miocene.

***Zoila platypyga* (McCoy, 1876)**

Cypraea (*Aricia*) *platypyga* McCoy, 1876: 39, pl. 30, figs 1, 1a–c.

Cypraea (*Aricia*) *consobrina* McCoy, 1878: 36, pl. 49, figs 2, 2a–c.

Cypraea toxorhyncha Tate, 1890: 210.—Tate, 1892: pl. 5, fig. 6, pl. 6, fig. 5.

Cypraea platypyga McCoy, 1876.—Tate, 1890: 211.

Cypraea (*Erosaria*) *platypyga* McCoy, 1876.—Harris, 1897: 209.

Umbilia (*Umbilia*) *platypyga* (McCoy, 1876).—Schilder, 1927: 87, 136.

Zoila (*Zoila*) *consobrina* (McCoy).—Schilder, 1935: 337, 338.

Zoila (*Zoila*) *platypyga platypyga* (McCoy, 1876).—Schilder, 1935: 337, 338.

Zoila (*Zoila*) *platypyga simplicior* Schilder, 1935: 337, 338.

Zoila (*Zoila*) *toxorhyncha* (Tate, 1890).—Schilder, 1935: 337, 338.

Zoila platypyga [sic] (McCoy, 1876).—Wilson and Clarkson, 2004: 51, pl. 52, pl. 53 (*toxorhyncha* form).

Zoila consobrina (McCoy, 1877).—Wilson and Clarkson, 2004: 51, pl. 54.

Zoila platypyga (McCoy, 1876).—Darragh, 2011b: 17, Figs 2A, 11A–H, 12A–G, 13A–C.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Zoila gigas* (McCoy, 1867)**

(Type species of *Gigantocypraea* Schilder, 1927 OD)

Cypraea gigas McCoy, 1867a: 18.—McCoy, 1867b: 194; McCoy, 1867c: 438; Tate, 1890: 212.

Cypraea (Aricia) gigas McCoy.—McCoy, 1875b: 19, pl. 15, pl. 16, fig. 2, pls 17, 18, fig. 1; McCoy, 1876: 35, pls 28, 29, fig. 1.

Cypraea dorsata Tate, 1890: 212.—Tate, 1892: pl. 10, fig. 4, pl. 11, fig. 6; Schilder, 1927: 136.

Cypraea gabrieli Chapman, 1912c: 190, pl. 13, figs 1–3.

Umbilia (Gigantocypraea) gigas (McCoy, 1867).—Schilder, 1927: 86, 136.

?*Gigantocypraea gigas* (McCoy, 1867).—Schilder, 1930: 126, pl. 12, figs 34, 35 (cast).

Zoila (Gigantocypraea) gigas (McCoy, 1867).—Schilder, 1935: 337, 338, fig. 17; Wilson and Clarkson, 2004: 53, pl. 57.

Zoila gigas (McCoy, 1867).—Darragh, 2011b: 21, Figs 2B, 13E–H, 14A–H, 15A–E.

Distribution. Murray Basin: Morgan Limestone. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Casts of what is probably this species found in Eucla Basin: Nullarbor Limestone. Murray Basin: Morgan Limestone. Otway Basin: Gambier Limestone. Port Phillip Basin: Curlew Limestone. Gippsland Basin: Gippsland Limestone. Age: late Oligocene–middle Miocene.

***Zoila* sp.**

Zoila sp. Darragh, 2011b: 24, Figs 16C, D, M.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

***Zoila campestris* Darragh, 2011**

Cypraea (Zoila) sp. Ludbrook, 1978: 129, pl. 13, fig. 19.

Zoila sp. Wilson and Clarkson, 2004: 52, pl. 55, figs a, b.

Zoila campestris Darragh, 2011b: 24, Figs 16A, B, E–J, O.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

***Zoila fodinata* Darragh, 2011**

Zoila fodinata Darragh, 2011b: 26, Figs 16K, L, N.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

Austrocypraea Cossmann, 1903

***Austrocypraea onkastoma* (Yates, 2009)**

Lyncina (Austrocypraea) onkastoma Yates, 2009: 27, Figs 3A–G, 4.

Distribution. St Vincent Basin: Port Willunga Formation (type). Age: early Oligocene.

***Austrocypraea archeri* (Tenison Woods, 1876)**

Cypraea archeri Tenison Woods, 1876: 23, fig. 9.—Tate, 1890: 205; 1892, pl. 6, fig. 1.

Austrocypraea archeri (Tenison Woods, 1876).—Schilder, 1927: 110; Schilder, 1935: 339, 341; Fehse, 2003: 51, pl. 7, figs 3a–d, Figs 1, 2.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Austrocypraea scalena* (Tate, 1890)**

Cypraea scalena Tate, 1890: 203.—Tate, 1892: pl. 5, figs 2, 2a.

Cypraea (Trona) squalena [sic] Tate, 1890.—Cossmann, 1903: 155, pl. 6, fig. 12, pl. 8, fig. 8.

Austrocypraea scalena (Tate, 1890).—Schilder, 1935: 339, 340, figs 21, 22; Fehse, 2003: 53, pl. 1, figs 3a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Austrocypraea parallela* (Tate, 1890)**

Cypraea parallela Tate, 1890: 203.—Tate, 1892: pl. 5, fig. 1.

Austrocypraea parallela (Tate, 1890).—Schilder, 1935: 339, 341, fig. 26; Fehse, 2003: 54, pl. 1, figs 2a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Austrocypraea subsidua* (Tate, 1890)**

Cypraea subsidua Tate, 1890: 204.—Tate, 1892: pl. 5, fig. 3, 3a, b.

Austrocypraea subsidua (Tate, 1890).—Schilder, 1935: 339, 340, fig. 20; Fehse, 2003: 53, pl. 2, figs 1a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Austrocypraea contusa* (McCoy, 1878)**

(Type species of the genus OD)

Cypraea (Luponia) contusa McCoy, 1878: 37, pl. 49, figs 3, 3a–e, 4, 4a.

Cypraea contusa McCoy, 1877 [sic].—Tate, 1890: 206.

Cypraea (Austrocypraea) contusa McCoy, 1877.—Cossmann, 1903: 164, pl. 9, figs 11, 12.

Austrocypraea contusa (McCoy, 1877).—Schilder, 1927: 110; Schilder, 1935: 339, 341, figs 24, 25; Fehse and Kendrick, 2000: 99, Figs 1M–Q; Fehse, 2003: 51, pl. 3, figs 1a–d, figs 2a–d, pl. 7, figs 1a–d, 2a–d; Fehse, 2013a: 116, pl. 1, figs 2b–e, pl. 2, figs 1b–e, figs 2a–e, pl. 3, figs 1a–d.

Austrocypraea subcontusa Schilder, 1935: 339, 341, fig. 23.—Fehse, 2003: 55, pl. 2, figs 2a–d; Fehse, 2013a: 118, pl. 3, figs 5a–d.

Austrocypraea goudeyana Fehse, 2013a: 117, pl. 1, figs 1a–d, 3a–e, 4a–e, pl. 2, figs 3a–d, 4a–d, pl. 3, figs 2a–d, 3a–d, 4a–d.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Austrocypraea ampullacea* (Tate, 1890)**

Cypraea ampullacea Tate, 1890: 205.—Tate, 1892, pl. 5, fig. 4.

Austrocypraea ampullacea (Tate, 1890).—Schilder, 1927: 110; Schilder, 1935: 339, 341; Fehse, 2003: 54.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Austrocypraea constricta* Schilder, 1935**

Austrocypraea constricta Schilder, 1935: 339, 340, fig. 19.—Fehse, 2003: 55, pl. 4, figs 3a–d.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Austrocypraea rumballi* Fehse, 2003**

Austrocypraea ovulatella (Tate, 1890).—Schilder, 1935: 339, fig. 18 non Tate.

Austrocypraea rumballi Fehse, 2003: 56, pl. 2, figs 3a–d, 4a–d, pl. 4, figs 1a–d, 2a–d, pl. 6, figs 4a–e.

Lyncina (*Austrocypraea*) *cadella* Yates, 2008: 359, Figs 5A–L, 6B.

Distribution. Murray Basin: Cadell Marl. *Age*: middle Miocene.

***Austrocypraea amae* Fehse and Kendrick, 2000**

Cypraea (*Austrocypraea*) *reevei* Sowerby, 1832.—Ludbrook, 1978: 130, pl. 13, figs 17, 18.

Austrocypraea amae Fehse and Kendrick, 2000: 95, Figs 1A–L, 2A–J.—; Fehse, 2003: 56, pl. 3, figs 3a–d, figs 4a–d, pl. 6, figs 1a–e, figs 2a–e.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age*: late Pliocene.

***Austrocypraea jimgracei* Southgate and Roberts, 2022**

Austrocypraea jimgracei Southgate and Roberts, 2022: 175, Figs 1A–C, 2A–C, 3A–E.

Distribution. Bass Basin: Cameron Inlet Formation (type). *Age*: late Pliocene.

Eschatocypraea Schilder, 1966

***Eschatocypraea balcombica* Schilder, 1966**

(Type species of the genus OD)

Eschatocypraea balcombica Schilder, 1966: 270, figs 1a–e.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

Notoluponia Schilder, 1935

***Notoluponia murraviana* (Tate, 1890)**

Cypraea murraviana Tate, 1890: 207.—Tate, 1892: pl. 6, fig. 6.

Luponia murraviana (Tate, 1890).—Schilder, 1927: 69, 128.

Notoluponia murraviana murraviana (Tate, 1890).—Schilder, 1935: 346, 348, fig. 36.

Distribution. Murray Basin: Cadell Marl (type). *Age*: middle Miocene

***Notoluponia elegantior* Schilder, 1935**

(Type species of the genus OD)

Notoluponia murraviana elegantior Schilder, 1935: 346, 348, figs 37, 39.

Notoluponia elegantior Schilder, 1935.—Fehse, 2001: 35, fig.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Notoluponia gracilior* Schilder, 1935**

Notoluponia gracilior Schilder, 1935: 346, 349, fig. 42.—Fehse, 2001: 36, fig.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Notoluponia pyrulata* (Tate, 1890)**

Cypraea pyrulata Tate, 1890: 207.—Tate, 1892: pl. 6, figs 4a–c.

Notoluponia pyrulata (Tate, 1890).—Schilder, 1935: 346, 347, fig. 33; Fehse, 2001: 34, fig.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Notoluponia subpyrulata* (Tate, 1890)**

Cypraea subpyrulata Tate, 1890: 206.—Tate, 1892: pl. 5, fig. 5.

Notoluponia subpyrulata (Tate, 1890).—Schilder, 1935: 346, 349, fig. 43; Fehse, 2001: 37, fig.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Notoluponia subregularis* Schilder, 1935**

Notoluponia subregularis Schilder, 1935: 346, 347, fig. 34.

Notoluponia ficoides subregularis Schilder, 1935.—Fehse, 2001: 33, fig.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Notoluponia brachypyga* (Tate, 1890)**

Cypraea brachypyga Tate, 1890: 206.—Tate, 1892: pl. 6, fig. 3.

Notoluponia brachypyga brachypyga (Tate, 1890).—Schilder, 1935: 346, 349, figs 44, 45.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age*: middle Miocene.

***Notoluponia simnioides* Schilder, 1935**

Notoluponia brachypyga simnioides Schilder, 1935: 346, 349, fig. 46.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Notoluponia oligodontota* Schilder, 1935**

Notoluponia oligodontota Schilder, 1935: 346, 347, fig. 31.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Notoluponia tealei* Schilder, 1935**

Notoluponia tealei Schilder, 1935: 346, 347, fig. 32.

Notoluponia tealei tealei Schilder, 1935.—Fehse, 2001: 34, fig.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Notoluponia plicata* Schilder, 1935**

Notoluponia plicata Schilder, 1935: 346, 348, figs 40, 41.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

Notocypraea Schilder, 1927

***Notocypraea eryma* Cotton, 1947**

Notocypraea eryma Cotton, 1947: 668, pl. 21, figs 6–8.—Ludbrook, 1958: 44.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Notocypraea jonesiana* (Tate, 1890)**

Cypraea jonesiana Tate, 1890: 205.—Tate, 1892: pl. 6, fig. 2.

Austrocypraea jonesiana (Tate, 1890).—Schilder, 1927: 110, 152.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Notocypraea darraghi* Fehse, 2010**

Cypraea (*Notocypraea*) *piperita* Gray 1825.—Ludbrook, 1978: 131, pl. 11, figs 11, 12.

Notocypraea darraghi Fehse, 2010: 2, pl. 1, figs 1a–d, 2a–d, pl. 2, figs 1a–d, 3a–d, 6a–d; Fehse, 2011: Figs 1Q–T.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

***Notocypraea goudeyi* Fehse, 2011**

Notocypraea goudeyi Fehse, 2011: 180, Figs 1A–P.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

Umbilia Jousseume, 1884

Umbilia (*Umbilia*)

***Umbilia* (*Umbilia*) *prosilia* Darragh, 2002**

Umbilia (*Umbilia*) *prosilia* Darragh, 2002a: 365, Figs 15A–C, E, H.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Umbilia* (*Umbilia*) *platyrhyncha* (McCoy, 1876)**

Cypraea (*Aricia*) *platyrhyncha* McCoy, 1876: 40, pl. 30, figs 2, 2a–c.

Umbilia (*Umbilia*) *platyrhyncha* (McCoy, 1876).—Schilder, 1927: 87; Schilder, 1935: 342, 343; Darragh, 2002a: 359, Figs 2E, F, H–K, 3A–F.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Umbilia* (*Umbilia*) *angustior* (Pritchard, 1896)**

Cypraea platyrhyncha angustior Pritchard, 1896: 107, pl. 4, figs 8, 9.

Umbilia (*Umbilia*) *platyrhyncha angustior* (Pritchard, 1896).—Schilder, 1935: 342, 343.

Umbilia sp. Burgess, 1985: 11, fig. D; Lorenz, 1989, fig. 5.

Umbilia (*Umbilia*) *angustior* (Pritchard, 1896).—Darragh, 2002a: 360, Figs 1A, 2G, 3G–I, 4A–I.

Distribution. Otway Basin: Fishing Point Marl. Port Phillip Basin: Puebla Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. Age: early Miocene.

***Umbilia* (*Umbilia*) *eximia* (G. B. Sowerby I, 1845)**

Cypraea eximia G. B. Sowerby I in Strzelecki, 1845: 296, pl. 19, figs 1–3.—Tate, 1890: 209.

Cypraea (*Aricia*) *eximia* G. B. Sowerby I, 1845.—McCoy, 1876: 35, pls 28, 29, figs 2, 2a, b.

Cypraea (*Aricia*) *eximia* var. *brevis* McCoy, 1876: 36.

Cypraea sphaerodoma Tate, 1890: 209.—Tate, 1892: pl. 8, Fig. 5.
Cypraea (*Umbilia*) *eximia* G. B. Sowerby I, 1845.—Harris, 1897: 210.

Cypraea (*Umbilia*) *sphaerodoma* Tate, 1890.—Harris, 1897: 211.
Rhynchocypraea eximia (McCoy) [sic] .—Cossmann, 1903: 175, pl. 6, fig. 11.

Rhynchocypraea loxorhyncha Tate.—Cossmann, 1903, pl. 8, fig. 5 (error for *toxorhyncha* Tate, 1890).

Umbilia (*Umbilia*) *eximia* (Sowerby, 1845).—Schilder, 1927: 87, 136.

Umbilia (*Umbilia*) *eximia maccoyi* Schilder, 1932b: 183.—Schilder, 1935: 342, 344; Fehse, 2001: 32, Fig.

Umbilia (*Umbilia*) *eximia montis-marthae* Schilder, 1935: 342, 344, fig. 29.

Umbilia (*Umbilia*) *brevis brevis* (McCoy, 1876).—Schilder, 1935: 342, 344.

Umbilia (*Umbilia*) *brevis frankstonensis* Schilder, 1935: 342, 344.

Umbilia (*Umbilia*) *eximia eximia* (G. B. Sowerby I, 1845).—Schilder, 1935: 342, 345.

Umbilia sphaerodoma (Tate, 1890).—Lorenz, 1989: 7, Fig.

Umbilia (*Umbilia*) *eximia* (G. B. Sowerby I, 1845).—Darragh, 2002a: 360, Figs 1B, 5A–H, 6A–H, 7B–I, 8 A–H.

Umbilia hallani Hawke, 2020: 16, Figs 1.1–6.

Umbilia eximia (Sowerby, 1845).—Southgate et al., 2021: Fig. 6.

Distribution. Murray Basin: Cadell Marl, Morgan Limestone, Bookpurnong Formation. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation., Port Campbell Limestone. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl. Age: early–middle Miocene.

***Umbilia* (*Umbilia*) *hesitata* (Iredale, 1916)**

Cypraea amygdalina Tate, 1890: 211.—Tate, 1892, pl. 6, fig. 8, non Grateloup, 1847.

Cypraea tatei Cossmann, 1903: 160, pl. 7, figs 4, 6 nom. nov. for *Cypraea amygdalina* Tate, 1890, non Grateloup, 1847.—Ludbrook, 1973: pl. 27, figs 87, 88.

Umbilia (*Umbilia*) *tatei* (Cossmann, 1903).—Schilder, 1935: 342, 343, Fig. 28.

Umbilia cera Cotton, 1947: 667, pl. 21, figs 1–3.—Hawke, 2020: 20, Figs 4.3–4; Southgate et al., 2021: Figs 7A–C.

Umbilia (*Umbilia*) *hesitata* (Iredale, 1916).—Darragh, 2002a: 363, Figs 7A, 9G, H, 10A–I, 11A–H, 12A, C, F–H, 13D, E, 14A–C, 19C with full synonymy.

Umbilia darryli Hawke, 2020: 17, Figs 3.1–16.

Umbilia tatei (Cossmann).—Hawke, 2020: 20, Figs 4.1–2.

Umbilia furneauxensis Southgate et al., 2021: 215, Figs 1, 2A–C, 3.

Umbilia hesitata (Iredale, 1916).—Southgate et al., 2021: Figs 4A–D.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. Otway Basin: Gellibrand Formation. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Tambo River Formation, Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Eastern–southern Australia (living). Age: middle Miocene–present.

***Umbilia* (*Umbilia*) *tomdarraghi* Southgate and Militz, 2023**

Umbilia hesitata (Iredale, 1916).—Darragh, 2002: 380, Fig. 9a–f; Wilson and Clarkson 2004: 342, pl. 352, fig. b.

Umbilia tomdarraghi Southgate and Militz, 2023: 1, Figs 1–2A–B.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Umbilia (Umbilia) leptorhyncha (McCoy, 1878)(Type species of *Rhynchocypraea* Cossmann, 1898 OD)*Cypraea (Luponia) leptorhyncha* McCoy, 1878: 35, pl. 49, figs 1, 1a–c.—Harris, 1897: 207.*Cypraea leptorhyncha* McCoy, 1877 [sic].—Tate, 1890: 208.*Rhynchocypraea leptorhyncha* (McCoy, 1877).—Cossmann, 1898: 17.*Umbilia (Rhynchocypraea) leptorhyncha* (McCoy, 1877).—Schilder, 1935: 342, 342, 343, fig. 27; Fehse, 2001: 33, fig.*Rhynchocypraea leptorhyncha* (McCoy, 1877).—Lorenz, 1989: 7, Fig.*Umbilia (Umbilia) leptorhyncha* (McCoy, 1877).—Darragh, 2002a: 366, Figs 16A–H.*Umbilia caepa* Yates, 2008: 354, Figs 1A–G, 2, 3 B, D, F, H.*Umbilia leptorhyncha* (McCoy).—Yates, 2008: Figs 3A, C, E, G, 4A–C.**Distribution.** Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation., Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.***Umbilia (Umbilia) siphonata (Chapman, 1922)****Cypraea sphaerodoma* var.? Tate: 1890: 210.*Cypraea siphonata* Chapman, 1922: 12, pl. 3, fig. 16.*Gisortia breviplicata* Schilder, 1926: 361, 373.*Umbilia (Palliocypraea) breviplicata* Schilder, 1935: 342, 345, Fig. 30.*Umbilia* sp. Burgess, 1985: 11, fig. C; Lorenz, 1989: 6, Fig. 5.*Umbilia (Umbilia) siphonata* (Chapman, 1922).—Darragh, 2002a: 367, Figs 17A–E, 18A–F, 19A, B.**Distribution.** Murray Basin; Morgan Limestone (type), Bookpurnong Formation. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Bairnsdale Limestone. **Age:** middle Miocene.*Umbilia (Palliocypraea)* Cossmann, 1906***Umbilia (Palliocypraea) gastroplox (McCoy, 1867)****Cypraea gastroplox* McCoy, 1867a: 18.—McCoy, 1867b: 194.*Cypraea (Aricia) gastroplox* McCoy, 1867.—McCoy, 1875b: 20, pl. 16, fig. 1, 1a, pls 17, 18, fig. 2, 2a.*Rhynchocypraea (Palliocypraea) gastroplox* (McCoy).—Cossmann, 1906: 239, pl. 9, figs 10, 11.*Umbilia (Umbilia) gastroplox* (McCoy, 1867).—Schilder, 1927: 87, 136.*Palliocypraea gastroplox* (McCoy).—Chapman, 1929: 202, pls 19, 20; Lorenz, 1989: 6, Fig. 5.*Umbilia (Palliocypraea) gastroplox* (McCoy, 1867).—Schilder, 1935: 342, 345; Darragh, 2002: 370, Figs 19D, E, 20A–D, 21A–D.**Distribution.** Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** early?–middle Miocene.*Notadusta* Schilder, 1935***Notadusta victoriana* Schilder, 1935**

(Type species of the genus OD)

Notadusta victoriana Schilder, 1935: 350, figs 47, 48.**Distribution.** Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.***Notadusta tumidula* Schilder, 1935***Notadusta tumidula* Schilder, 1935: 350, 351, fig. 49.**Distribution.** Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.***Notadusta pygmaea* Schilder, 1935***Notadusta pygmaea* Schilder, 1935: 350, 351, fig. 50.—Fehse, 2001: 40, Fig.**Distribution.** Locality unknown “Australia”. **Age:** unknown.**Remarks.** Fehse (2001) gave the type locality as Muddy Creek, Hamilton, but the matrix on the specimens suggests the holotype came from a locality in the Gellibrand Formation. The age is probably middle Miocene.**Family Eocypraeidae***Willungia* Powell, 1938***Willungia ovulatella* (Tate, 1890)***Cypraea ovulatella* Tate, 1890: 208.—Tate, 1892: pl. 6, figs 7, 7a.*Erato (Protoerato) ovulatella* (Tate, 1890).—Schilder, 1927: 57.*Austrocypraea ovulatella* (Tate, 1890).—Schilder, 1935: 339, Fig. 18.*Willungia ovulatella* (Tate, 1890).—Powell, 1938, pl. 39, fig. 5; Fehse, 2013b: 152, Fig. 4; Darragh, 2017: 48, Figs 3.19, 31, 32, 35–37.*Sulcocypraea ovulatella* (Tate, 1890).—Fehse, 2003: 58, pl. 4, figs 4a, b, 5a, b.*Ponticypraea egregia* Fehse et al., 2019: 144, pl. 1, figs 1–4 (type species of *Ponticypraea* Fehse et al., 2019 OD).**Distribution.** Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. **Age:** late Eocene.***Willungia tasmanica* Powell, 1938**

(Type species of genus OD)

Willungia tasmanica Powell, 1938: 370, pl. 39, fig. 4.—Fehse, 2013b: 151, pl. 1, figs 2a–c, fig. 3; Fehse, 2018: pl. 1, figs 1, 2, pl. 2, fig. 4.*Trivellona tasmanica* (Powell, 1938).—Fehse, 2002: 23, pl. 1, fig. 5.*Willungia felix* Fehse, 2018: 60, pl. 1, figs 3, 4, pl. 2, figs 1–3.**Distribution.** Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.**Family Ovulidae***Cypraedia* Swainson, 1840***Cypraedia clathrata* (Tate, 1892)***Cypraea (Cypraedia)[sic] clathrata* Tate, 1892: pl. 9, fig. 1.*Cypraedia clathrata* Tate, 1893: 317.**Distribution.** St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. **Age:** late Eocene.*Phenacovolva* Iredale, 1930***Phenacovolva* sp.***Phenacovolva* sp. Darragh, 2017: 50, Fig. 3.23.**Distribution.** Eucla Basin: Pallinup Formation. **Age:** late Eocene.

***Phenacovolva exigua* (Tate, 1890) comb. nov.**

Simnia (*Neosimnia*) *exigua* Tate, 1890: 218.—Tate, 1892; pl. 9, figs 3, 3a.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Sphaerocypraea Schilder, 1927

***Sphaerocypraea bullaeformis* (Tate, 1898)**

Gaskoinia bullaeformis Tate, 1898a: 390, pl. 19, fig. 5.

Sphaerocypraea bullaeformis (Tate, 1898).—Yates, 2010: 118, Fig. 2A, B.

Distribution. Murray Basin: Bryant Creek Formation. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

Superfamily Naticoidea

Family Naticidae

Euspira Agassiz, 1837

***Euspira saxosulensis* Darragh, 1997**

Euspira saxosulensis Darragh, 1997: 72, Figs 3O–R, V.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

***Euspira?* sp.**

Euspira? sp. Stilwell, 2003: 258, Figs 5H–K.

Distribution. Otway Basin: Dilwyn Formation. *Age*: early Eocene.

Polinices Montfort, 1810

***Polinices subjugum* (Cotton, 1947)**

Natica gibbosa Hutton, 1886.—Tate, 1893: 320, pl. 6, fig. 4 non Hutton.

Uber subjugum Cotton, 1947: 668, pl. 21, figs 15, 16.

Polinices (*Polinices*) *subjugum* (Cotton, 1947).—Ludbrook, 1958: 46.

Polinices subjugum (Cotton, 1947).—Ludbrook, 1978: pl. 27, fig. 89.

Distribution. St Vincent Basin: Dry Creek Sands (type). Murray Basin: Bookpurnong Formation. *Age*: middle Miocene.

Conuber Finlay and Marwick, 1937

***Conuber vixumbilicata* (Tenison Woods, 1877)**

Natica vixumbilicata Tenison Woods, 1877: 111.—Tate, 1893: 320, pl. 10, fig. 9.

Polinices (*Conuber*) *vixumbilicata* (Tenison Woods, 1877).—Ludbrook, 1967: 67, pl. 2, figs 11, 12.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Conuber balteatella* (Tate, 1893)**

Natica balteatella Tate, 1893: 321, pl. 6, fig. 7, 7a.

Polinices (*Conuber*) *balteatella* (Tate, 1893).—Ludbrook, 1958: 47, pl. 1, figs 7, 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Conuber cunninghamensis* (Harris, 1897)**

Natica varians Tate, 1893: 322, pl. 6, figs 2, 9 non Dujardin, 1837.

Natica cunninghamensis Harris, 1897: 257 nom. nov. for *Natica varians* Tate, 1893 non Dujardin, 1837.

?*Polinices* (*Conuber*) *cunninghamensis* (Harris, 1897).—Ludbrook, 1958: 47, pl. 1, figs 5, 6.

Polinices (*Conuber*) *cunninghamensis* (Harris, 1897).—Ludbrook, 1978: 132, pl. 14, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (?). Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation? *Age*: middle Miocene?, late Miocene–late Pliocene.

***Conuber subvariens* (Tate, 1893)**

Natica subvariens Tate, 1893: 322, pl. 6, figs 8, 10.

Polinices (*Conuber*) *subvariens* (Tate, 1893).—Ludbrook, 1958: 46, pl. 1, figs 3, 4.

Distribution. St Vincent Basin: Dry Creek Sands (?). Gippsland Basin: Jemmys Point Formation (type). *Age*: middle Miocene?, early Pliocene.

***Conuber conicus* (Lamarck, 1822)**

Polinices (*Conuber*) *conicus* (Lamarck, 1822).—Ludbrook, 1978: 131, pl. 14, figs 1, 2.

Distribution. Eucla Basin: Roe Calcarenite. Australia generally (living). *Age*: late Pliocene–present.

Eunaticina P. Fischer, 1885

***Eunaticina subinfundibulum* (Tate, 1893) comb. nov.**

Natica subinfundibulum Tate, 1893: 327, pl. 6, fig. 6, pl. 10, fig. 11, 11a.

Natica subinfundibulum var *crassa* Tate, 1893: 327.

Natica subinfundibulum var *rhysa* Tate, 1893: 327.

Sigaretotrema subinfundibulum (Tate, 1893).—Ludbrook, 1958: 47.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Sandringham Sandstone. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. *Age*: middle–late Miocene.

***Eunaticina umbilicatum* (Quoy and Gaimard, 1832)**

Sigaretotrema umbilicatum (Quoy and Gaimard, 1832).—Ludbrook, 1978: 133, pl. 14, fig. 7.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.

***Eunaticina albosutura* (Verco, 1909)**

Sigaretotrema albosutura (Verco, 1909).—Ludbrook, 1978: 133, pl. 14, figs 5, 6.

Distribution. Eucla Basin: Roe Calcarenite. Southern Western Australia–South Australia (living). *Age*: late Pliocene–present.

Friginatica Hedley, 1916***Friginatica aldingensis* (Tate, 1893)**

Natica aldingensis Tate, 1893: 326, pl. 10, fig. 5.

Friginatica aldingensis (Tate, 1893).—Ludbrook, 1973: pl. 25, figs 57, 58.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Age: late Eocene.

***Friginatica polita* (Tenison Woods, 1876)**

Natica polita Tenison Woods, 1876: 23, fig. 4.—Tate, 1893: 325.

Ampullina (Ampullonatica) polita (Tenison Woods, 1876).—Cossmann, 1924: 38, pl. 8, fig. 25.

Friginatica polita (Tenison Woods, 1876).—Ludbrook, 1967: 67, pl. 2, figs 5, 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Friginatica wintlei* (Tenison Woods, 1876)**

Natica wintlei Tenison Woods, 1876: 23, fig. 3.—Johnston, 1888: pl. 29, fig. 10; Tate, 1893: 322.

Friginatica wintlei (Tenison Woods, 1876).—Ludbrook, 1967: 67, pl. 2, figs 13, 14.

Distribution. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone (type). **Age:** late Oligocene–early Miocene.

Globisium Marwick, 1924***Globisium pritchardi* (Cossmann, 1907) comb. nov.**

Natica arata Tate, 1893: 324, pl. 10, fig. 8 non Lycett, 1863.

Natica pritchardi Cossmann, 1907: 201 nom. nov. for *Natica arata* Tate, 1893 non Lycett, 1863.

Vanikoroa tatei Cossmann, 1924: 166 nom. nov. for *Natica arata* Tate, 1893 non Lycett, 1863.

Distribution: Murray Basin: Cadell Marl (type). **Age:** middle Miocene.

***Globisium perspectiva* (Tate, 1893) comb. nov.**

Natica perspectiva Tate, 1893: 326, pl. 10, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.

***Globisium limatum* (Tate, 1893) comb. nov.**

Natica limata Tate, 1893: 324, pl. 10, fig. 4.

Natica (Stigmaulax) limata Tate, 1893).—Harris, 1897: 262, pl. 8, figs 1a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Natica Scopoli, 1777***Natica* sp.**

Natica sp. Ludbrook, 1978: 135, pl. 14, figs 11, 12.

Distribution. Eucla Basin: Roe Calcarenite. **Age:** late Pliocene.

Sinum Röding, 1798***Sinum microstira* (Tate, 1893) comb. nov.**

Sigaretus microstira Tate, 1893: 328, pl. 7, fig. 10.

Distribution. Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

***Sinum zonale* (Quoy and Gaimard, 1833)**

Sinum (Ectosinum) zonale (Quoy and Gaimard, 1833).—Ludbrook, 1978: 134, pl. 14, fig. 10.

Distribution. Eucla Basin: Roe Calcarenite. Southern and eastern Australia (living). **Age:** late Pliocene–present.

Tanea Marwick, 1931***Tanea hamiltonensis* (Tenison Woods, 1879)**

Natica wintlei var. *hamiltonensis* Tenison Woods, 1879a: 229, pl. 21, fig. 8.

Natica hamiltonensis Tenison Woods, 1879.—Tate, 1893: 319, pl. 10, fig. 6.

Tanea hamiltonensis (Tenison Woods, 1879).—Ludbrook, 1958: 48, pl. 1, figs 9, 10; Darragh, 2017: 50, figs 1.6, 9–11.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation, Dry Creek Sands. Otway Basin: Browns Creek Formation, Muddy Creek Formation (type). Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. **Age:** late Eocene–middle Miocene.

***Tanea sagittata* (Menke, 1843)**

Tanea sagittata (Menke, 1843).—Ludbrook, 1978: 135, pl. 14, fig. 8.

Distribution. Eucla Basin: Roe Calcarenite. Australia generally (living). **Age:** late Pliocene–present.

Taniella Finlay and Marwick, 1937***Taniella subnoae* (Tate, 1893) comb. nov.**

Natica subnoae Tate, 1893: 320, pl. 6, figs 1, 1a.

Distribution. Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

***Taniella weymouthensis* Ludbrook, 1958**

Taniella weymouthensis Ludbrook, 1958: 48, pl. 1, figs 13, 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Proxiuber Powell, 1933***Proxiuber microsculptum* Ludbrook, 1958**

Proxiuber microsculptum Ludbrook, 1958: 49, pl. 1, figs 15, 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). **Age:** middle Miocene.

Tasmatica Finlay and Marwick, 1937

***Tasmatica modestina* Ludbrook, 1958**

Tasmatica modestina Ludbrook, 1958: 50, pl. 1, figs 17, 18.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Austrocochlis Finlay and Marwick, 1937

***Austrocochlis mooraboolensis* (Tate, 1893) comb. nov.**

Natica mooraboolensis Tate, 1893: 323, pl. 6, fig. 5.

Distribution. Port Phillip Basin: Upper Maude Limestone (type). *Age:* early Miocene.

***Austrocochlis substolida* (Tate, 1893)**

Natica substolida Tate, 1893: 323, pl. 6, figs 3, 3a.

Natica subinfundibulum var. *crassa* Tate, 1893.—Chapman and Gabriel, 1914: 321, pl. 26, figs 15a, b; Chapman, 1916: pl. 79, figs 15a, b.

Natica substolida var. *grandis* Chapman, 1920: 239 non Münster, 1844.

Austrocochlis substolida (Tate, 1893).—Ludbrook, 1958: 50, pl. 1, figs 11, 12, 19, 20.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Notocochlis Powell, 1933

***Notocochlis gualteriana* (Récluz, 1843)**

Notocochlis gualteriana (Récluz, 1843).—Ludbrook, 1978: 136, pl. 14, fig. 9.

Distribution. Eucla Basin: Roe Calcarenite. Northern Australia (living). *Age:* late Pliocene–present.

Tectonatica Sacco, 1890

***Tectonatica gatliffi* (Chapman and Crespin, 1928) comb. nov.**

Natica gatliffi Chapman and Crespin, 1928: 112, pl. 7, fig. 42.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Mammilla Schuhmacher, 1817

***Mammilla* cf *M. melanostoma* (Gmelin, 1791)**

Mamilla [sic] cf *melanostoma* (Gmelin, 1791).—McNamara and Kendrick, 1994: 35, Fig. 12G.

Distribution. Carnarvon Basin: Poivre Formation. *Age:* middle Miocene.

Order Tonnina
Superfamily Tonnoidea
Family Cassidae
Cassis Scopoli, 1777

***Cassis exigua* Tenison Woods, 1879**

Cassis exigua Tenison Woods, 1879b: 17, pl. 2, fig. 7.—Tate, 1889:

164, pl. 7, fig. 13; Harris, 1897: 197; Abbott, 1968: 64, pl. 38; Darragh, 2023: 2, Figs 1A–S, 2 [2024: 169].

Cassis nana Tenison-Woods, 1879c: 108.—Wilson, 1993: 230, p. pl. 38, fig. 9A, B.

Cassis textilis Tate, 1882: 45.—Tate, 1889: 165, pl. 7, fig. 11; Davies, 1935: 271, fig. 387; Abbott, 1968: 66, pl. 41.

Cassis contusus Tate, 1899a: 108, pl. 1, figs 1a, b.

Cassis (Hypocassis) salisburyensis Ludbrook, 1958: 51, pl. 2, figs 1, 2.—Abbott, 1968: 64.

Cassis (Hypocassis) nana Tenison Woods, 1879.—Abbott, 1968: 65, pl. 39.

Distribution. St Vincent Basin: Dry Creek Sands (type of *salisburyensis*). Murray Basin: Cadell Marl (type of *textilis*). Bookpurnong Formation (type of *contusus*). Otway Basin: Muddy Creek Formation (type). Eastern Australia (living). *Age:* middle–late Miocene–present.

***Cassis fimbriata* Quoy and Gaimard, 1833**

Cassis (Hypocassis) fimbriata Quoy and Gaimard, 1833.—Ludbrook, 1978: 136, pl. 14, figs 13–15.

Cassis fimbriata Quoy and Gaimard, 1833: Darragh, 2023: 5, Fig. 3A–F [2024: 172].

Distribution. Eucla Basin: Roe Calcarenite. Bass Basin: Cameron Inlet Formation. Southern Australia (living). *Age:* late Pliocene–present.

Echinophoria Sacco, 1890

***Echinophoria statiolitoralis* Darragh, 2023**

Echinophoria statiolitoralis Darragh, 2023: 6, Fig. 4F–L [2024: 174].

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Echinophoria wilsoni* (Tate, 1889)**

Cassidaria wilsoni Tate, 1889: 169, pl. 7, fig. 14.

Galeodea wilsoni (Tate, 1889).—Marwick, 1934: 13.

Echinophoria wilsoni (Tate, 1889).—Darragh, 2023: 8, Fig. 4D, E, L–O [2024: 174].

Distribution. Port Phillip Basin: Jan Juc Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* late Oligocene–early Miocene.

***Echinophoria* aff. *E. pollens* (Finlay, 1926)**

Echinophoria aff. *E. pollens* (Finlay, 1926).—Darragh, 2023: 9, Fig. 4A, B [2024: 176].

Distribution. Otway Basin: Muddy Creek Formation. *Age:* middle Miocene.

***Echinophoria trinodosa* (Tate, 1889)**

Semicassis trinodosa Tate, 1889: 167, pl. 7, fig. 12.

Phalium (Echinophoria) trinodosum (Tate, 1889).—Abbott, 1968: 116, pl. 97.

Echinophoria trinodosa (Tate, 1889).—Darragh, 2023: 9, Fig. 4C [2024: 177].

Distribution: Gippsland Basin: Rose Hill Marl (type). *Age:* late Miocene.

Galeodea Link, 1807***Galeodea* sp.**

Galeodea sp. Darragh and Kendrick, 2008: 235, Fig. 2.23.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). **Age:** late Eocene.

***Galeodea fuscirivularis* Darragh, 2023**

Galeodea fuscirivularis Darragh, 2023: 9, Fig. 4J, K, P, Q [2024: 177].

Distribution. Otway Basin: Brown Creek Formation (type). **Age:** late Eocene.

***Galeodea goudeyi* Darragh, 2023**

Galeodea sp. Ponder, 1983a: 93, pl. 1, fig. 6.

Galeodea goudeyi Darragh, 2023: 10, Fig. 5G–J [2024: 178].

Distribution. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. **Age:** early Miocene.

***Galeodea gradata* (Tate, 1889)**

Cassidaria gradata Tate, 1889: 169, pl. 8, fig. 1.

Morio gradata (Tate, 1888).—Harris, 1897: 201.

Galeodea gradata (Tate, 1888).—Marwick, 1934: 13; Ponder, 1983a: 93, pl. 1, fig. 5; Darragh, 2023: 11, Fig. 5A–F [2024: 179].

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

Semicassis Mörch, 1852***Semicassis pyrum* (Lamarck, 1822)**

Semicassis pyrum (Lamarck, 1822).—Darragh, 2023: 12, Fig. 6A–C [2024: 180].

Distribution. Gippsland Basin: Jemmys Point Formation. Southeastern Australia, South Africa, New Zealand (living). **Age:** early Pliocene–present.

Antephalium Iredale, 1852***Antephalium sufflatum* (Tenison Woods, 1877)**

Cassis sufflatus Tenison Woods, 1877: 93.

Semicassis sufflata (Tenison Woods, 1877).—Pritchard, 1896: 106; Harris, 1897: 198.

Semicassis (*Antephalium*) *sufflata* (Tenison Woods, 1877).—Ludbrook, 1967: 67, pl. 2, figs 9, 10.

Phalium sufflatum (Tenison Woods, 1877).—Abbott, 1968: 138.

Antephalium sufflatum (Tenison Woods, 1877).—Darragh, 2023: 13, Fig. 7A–D [2024: 181].

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

***Antephalium transennum* (Tate, 1889)**

Semicassis transenna Tate, 1889: 166, pl. 8, fig. 2.

Cassis sufflatus Tenison Woods, 1877. —Pritchard, 1896: 106; Harris, 1897: 198, non Tenison Woods.

Semicassis (*Antephalium*) *sufflata* (Tenison Woods, 1877).—Ludbrook, 1958: 52, non Tenison Woods.

Antephalium transennum (Tate, 1889).—Darragh, 2023: 14, Fig. 8A, B, E, F, K, L [2024: 182].

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

***Antephalium radiatum* (Tate, 1889)**

Semicassis radiata Tate, 1889: 168, pl. 8, fig. 3.

Semicassis (?*Casmaria*) *radiata* Tate, 1889: Ludbrook, 1958: 53.

Antephalium radiatum (Tate, 1889).—Darragh, 2023: 16, Fig. 9A–D [2024: 184].

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Otway Basin: Goodwood Formation. **Age:** middle/late Miocene.

***Antephalium semigranosum* (Lamarck, 1822)**

Semicassis muelleri Tate, 1889: 167, pl. 7, fig. 9.

Semicassis subgranosa Tate, 1889: 166, pl. 7, fig. 10.—Abbott, 1968: 41, pl. 16.

Cassidea (*Casmaria*) *muelleri* (Tate, 1889).—Cossmann, 1903: 128, pl. 15, fig. 16.

Semicassis (*Antephalium*) *muelleri* Tate, 1889.—Ludbrook, 1958: 52, pl. 2, figs 3, 4.

Phalium (*Semicassis*) *muelleri* (Tate, 1889).—Abbott, 1968: 147, pl. 133.

Semicassis subgranosa Tate, 1889.—Abbott, 1968: 41, pl. 16.

Phalium (*Semicassis*) *subgranosum* (Tate, 1889).—Ludbrook, 1973: pl. 28, fig. 99.

Phalium (*Semicassis*) *semigranosum* (Lamarck, 1822).—Ludbrook, 1978: 137, pl. 15, figs 1, 2.

Antephalium semigranosum (Lamarck, 1822).—Darragh, 2023: 17, Fig. 8 C, D, G–J, M [2024: 185].

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone. Otway Basin: Werrikoo Limestone. Grange Burn Formation. Port Phillip Basin: Sandringham Sandstone. Southern Australia (living). **Age:** middle Miocene–present.

***Antephalium adcocki* (G. B. Sowerby III, 1896):**

Phalium (*Semicassis*) *adcocki* (G. B. Sowerby III, 1896).—Ludbrook, 1978: 137, pl. 15, figs 3–6.

Antephalium adcocki (G. B. Sowerby III, 1896).—Darragh, 2023: 18, Fig. 10A–D [2024: 186].

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). **Age:** late Pliocene–present.

Family Charoniidae

Charonia Gistel, 1847

***Charonia lampas* (Linnaeus, 1758)**

Charonia lampas (Linnaeus, 1758).—Beu, 1998: 73, Figs 20b, d.

Distribution: Port Phillip Basin: Gellibrand Formation. Cosmopolitan (living). **Age:** middle Miocene, present.

Family Cymatiidae

Sassia Bellardi, 1873

***Sassia* sp.**

Sassia sp. Darragh, 1997: 74, Figs 3G, H.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

“*Sassia*” *cribrosa* (Tate, 1888)

Triton cribrosus Tate, 1888: 125, pl. 5, fig. 5.

Austrosassia cribrosa (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 52.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Austrosassia Finlay, 1931

***Austrosassia tortirostris* (Tate, 1888)**

Triton minimum Tenison Woods, 1877: 107 non Hutton, 1873.

Triton tortirostris Tate, 1888: 123, pl. 5, fig. 7 nom. nov. for *Triton minimum* Tenison Woods, 1877 non Hutton, 1873.—Ludbrook, 1961b: pl. 7, fig. 4.

Triton crassicosatus Tate, 1888: 125, pl. 11, fig. 4.

Triton oligostirus Tate, 1888: 126, pl. 6, fig. 7.

Lotorium annectans (Tate, 1888).—Harris, 1897: 192, pl. 6, figs 7a, b (protoconch) non Tate.

Lotorium oligostirum (Tate, 1888).—Kesteven, 1902: 469, pl. 17, fig. 7.

Lotorium tortirostris (Tate, 1888).—Kesteven, 1902: 470, pl. 17, fig. 8.

Cymatium tortirostris (Tate, 1888).—Kesteven, 1912: pl. 1, figs 1, 2.

Charonia (Austrosassia) tortirostris (Tate, 1888).—Ludbrook, 1967: 67, pl. 2, fig. 26.

Cymatiella oligostira (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 29.

Sassia tortirostris (Tate, 1888).—Darragh, 2017: 52, Fig. 3.41.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type of *T. oligostirus*). Murray Basin: Cadell Marl, Bookpurnong Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay, Fishing Point Marl, Myaring beds, Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation, Puebla Formation, Gellibrand Formation (type). Gippsland Basin: Wuk Wuk Marl. New Zealand (Miocene). Age: late Eocene–middle Miocene.

***Austrosassia minima* (Hutton, 1873)**

Distribution. Otway Basin: Jan Juc Formation. New Zealand (Oligocene). Age: late Oligocene.

***Austrosassia abbotti* (Tenison Woods, 1876)**

Triton abbotti Tenison Woods, 1876: 24, fig. 8.—Tate, 1888: 117; Johnston, 1888: pl. 29, fig. 13.

Charonia (Austrosassia) abbotti (Tenison Woods, 1877).—Ludbrook, 1967: 67, pl. 2, figs 1, 2.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. Age: early Miocene.

***Austrosassia annectans* (Tate 1888) comb. nov.**

Triton annectans Tate 1888: 121, pl. 5, fig. 3.

Distribution. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: early–middle Miocene.

***Austrosassia parkinsonia* (Perry, 1811)**

Distribution. Bass Basin: Cameron Inlet Formation. Southern and eastern Australia (living). Age: Pliocene–present.

Austrotriton Cossmann, 1903

***Austrotriton* sp.**

Distribution. Otway Basin: Fishing Point Marl. Port Phillip Basin: Gellibrand Formation? Age: early Miocene.

***Austrotriton balcombense* Chapple, 1941**

Austrotriton balcombensis Chapple, 1941: 119, pl. 14, fig. 5.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Austrotriton cyphum* (Tate, 1888)**

Triton cyphus Tate, 1888: 119, pl. 5, fig. 11.

Lotorium cyphus (Tate, 1888).—Kesteven, 1902: 469, pl. 17, fig. 6.

Tritonium (Austrotriton) cyphum (Tate, 1888).—Cossmann, 1903: 98, fig. 7.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Austrotriton gibbum* (Tate, 1888) comb. nov.**

Triton gibbus Tate, 1888: 118, pl. 5, fig. 9.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Austrotriton protensum* (Tate, 1888) comb. nov.**

Triton protensus Tate, 1888: 124, pl. 5, fig. 10.

Lotorium protensum (Tate, 1888).—Kesteven, 1902: 468, pl. 17, fig. 5.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austrotriton radiale* (Tate, 1888)**

(Type species of genus OD)

Triton radialis Tate, 1888: 118, pl. 5, fig. 8.—Ludbrook, 1961b: pl. 7, fig. 2.

Lotorium radiale (Tate, 1888).—Harris, 1897: 187, pl. 6, figs 6a, b; Kesteven, 1902: 467, pl. 17, fig. 2.

Tritonium (Austrotriton) radiale (Tate, 1888).—Cossmann, 1903: 98, pl. 3, figs 17, 18.

Austrotriton radialis (Tate, 1888).—Ludbrook, 1969b: fig. 96.8.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: early–middle Miocene.

***Austrotriton tatei* (Beu, 2010)**

Triton armatus Tate, 1888: 121, pl. 5, fig. 1 non Hupé, 1854.

Charonia (Austrotriton) armata (Tate, 1888).—Ludbrook, 1958: 55, pl. 2, figs 9, 10.

Sassia tatei Beu, 2010: 205 nom. nov. for *Triton armatus* Tate, 1888 non Hupé, 1854.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

***Austrotriton textile* (Tate, 1888) comb. nov.**

Triton textilis Tate, 1888: 120, pl. 5, fig. 12.

Lotorium textile (Tate, 1888).—Kesteven, 1902: 470, pl. 17, fig. 9.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austrotriton tumulosum* (Tate, 1888) comb. nov.**

Triton tumulosus Tate, 1888: 122, pl. 5, fig. 2.

Lotorium tumulosum (Tate, 1888).—Kesteven, 1902: 467, pl. 17, fig. 3.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austrotriton woodsii* (Tenison Woods, 1879) comb. nov.**

Triton woodsii Tenison Woods, 1879b: 15, pl. 3, figs 1, 2; Tate, 1888: 119, pl. 5, figs 4, 6.

Lotorium woodsii [sic] (Tate, 1888) [sic].—Kesteven, 1902: 466, pl. 17, fig. 1.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austrotriton bassi* (Angas, 1869)**

Argobuccinum (*Argobuccinum*) *bassi* (Angas, 1869).—Ludbrook, 1958: 53, pl. 2, figs 5, 6.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Otway Basin: Werriko Limestone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Southeastern Australia (living). Age: middle Miocene–present.

***Austrotriton ovoideum* (Tate, 1888) comb. nov.**

Triton ovoideus Tate, 1888: 122, pl. 9, fig. 4.

Negyriina antecedens Ludbrook, 1978: 139, pl. 15, figs 13, 14.

Distribution. Eucla Basin: Roe Calcarenite (type of *N. antecedens*). Otway Basin: Goodwood Formation, Grange Burn Formation (type). Werriko Limestone. Age: late Miocene–early Pleistocene.

***Austrotriton subdistortum* (Lamarck, 1822)**

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation, Werriko Limestone. Bass Basin: Cameron Inlet Formation, Memana Formation. Southeast Australia (living). Age: late Miocene–present.

***Austrotriton mimeticum* (Tate, 1893)**

Argobuccinum bassi (Angas, 1869).—Ludbrook, 1978: 140, pl. 15, figs 15, 16 non Angas, 1869.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Goodwood Formation. Gippsland Basin: Rose Hill Marl. Bass

Basin: Cameron Inlet Formation. Memana Formation. South Australia (living). Age: late Miocene–present.

***Austrotriton garrardi* Beu, 1970**

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Eastern Australia (living). Age: late Miocene–present.

***Austrotriton petulans* (Hedley and May, 1908)**

Distribution. Bass Basin: Cameron Inlet Formation, Memana Formation. Southeast Australia (living). Age: late Pliocene–present.

***Austrotriton* sp.**

?*Murex* sp. Ludbrook, 1978: 143, pl. 15, fig. 21.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Cabestana Röding, 1798

***Cabestana tabulata* (Menke, 1843)**

Distribution. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Bass Basin: Memana Formation. Southern Australia (living). Age: late Miocene–present.

***Cabestana spengleri* (Perry, 1811)**

Distribution. Bass Basin: Memana Formation. Southern and eastern Australia, New Zealand (living). Age: early Pleistocene–present.

Cymatiella Iredale, 1924

***Cymatiella prattii* (Tenison Woods, 1879)**

Triton prattii Tenison Woods, 1879a: 223, pl. 21, fig. 15.

Triton gemmulatus Tate, 1888: 126, pl. 6, figs 8a, b.

Lotorium pratti (Tenison Woods, 1879).—Pritchard, 1898: 96.

Distribution. Otway Basin: Gellibrand Formation. Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Cymatiella clarki* (Chapman and Crespin, 1933)**

Personella clarki Chapman and Crespin, 1933: 70, pl. 5, fig. 11.

Cymatiella adelaidensis Ludbrook, 1941: 94, pl. 5, fig. 10.—Ludbrook, 1958: 54.

Cymatiella gaimardi Iredale, 1929.—Ludbrook, 1978: 138, pl. 15, figs 7, 8, non Iredale, 1929.

Cymatiella sexcostata (Tate, 1888).—Ludbrook, 1978: 138, pl. 15, figs 9, 10, non Tate, 1888.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type of *C. adelaidensis*). Otway Basin: Grange Burn Formation. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation (type). Bass Basin: Cameron Inlet Formation. Age: middle Miocene–late Pliocene.

***Cymatiella sexcostata* (Tate, 1888)**

Triton sexcostatus Tate, 1888: 127, pl. 6, fig. 9.

Cymatiella verrucosa (Reeve, 1844).—Ludbrook, 1983: 46, fig. 3s; Ludbrook, 1984: 234, Fig. 57z, non Reeve, 1844.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Point Ellen Formation, Hallett Cove Sandstone (type). Otway Basin: Goodwood Formation. Whalers Bluff Formation. Bass Basin: Memana Formation. Southern Australia (living). *Age:* middle Miocene–present.

***Cymatiella verrucosa* (Reeve, 1844)**

Distribution. Otway Basin: Grange Burn Formation, Werrikoo Limestone. Bass Basin: Cameron Inlet Formation, Memana Formation. Southern Australia (living). *Age:* early Pliocene–present.

***Cymatiella* sp.**

?*Cymatiella* sp. Ludbrook, 1978: 139, pl. 15, figs 11, 12.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Gyrineum Link, 1807

***Gyrineum maccoyi* (Pritchard, 1898)**

Ranella (*Argobuccinum*) *prattii* (Tenison Woods, 1879).—Tate, 1888: 115, pl. 6, fig. 6 non Tenison Woods.

Apollo pratti (Tenison Woods, 1879).—Harris, 1897: 196 non Tenison Woods.

Argobuccinum maccoyi Pritchard, 1898: 99.

Ranella harrisi Cossmann, 1903: 201, pl. 4, fig. 11.

Gyrineum (*Biplex*) *maccoyi* (Pritchard, 1898).—Ludbrook, 1973: pl. 26, fig. 69.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl, Bookpurnong Formation. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* early–middle Miocene.

Haurokoa C. A. Fleming, 1955

***Haurokoa* sp.**

Distribution. Port Phillip Basin: Upper Maude Limestone. *Age:* early Miocene.

***Haurokoa* sp.**

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. *Age:* early–middle Miocene.

Monoplex Perry, 1810

***Monoplex parthenopeus* (Salis Marschlin, 1793)**

Distribution. Otway Basin: Werrikoo Limestone. Cosmopolitan (living). *Age:* early Pleistocene–present.

Family Personidae

Personopsis Beu, 1988

***Personopsis interposita* (Tate, 1894)**

Distortio interposita Tate, 1894: 172, pl. 10, figs 3, 3a.

Personopsis interposita (Tate, 1894).—Beu, 1988: 91.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

Family Ranellidae

Ranella Lamarck, 1816

***Ranella intercostalis* (Tate, 1888)**

Triton intercostalis Tate, 1888: 121, pl. 9, fig. 5.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

***Ranella* sp.**

Distribution. Gippsland Basin: Rose Hill Marl. *Age:* late Miocene.

***Ranella australasia* (Perry, 1811)**

Distribution. Bass Basin: Cameron Inlet Formation. Australia, New Zealand (living). *Age:* late Pliocene–present.

Family Tonnidae

Eudolium Dall, 1889

***Eudolium bairdii* (Verrill and Smith, 1881)**

Dolium biornatum Tate, 1894: 173, pl. 10, fig. 5.

Eudolium bairdii (Verrill and Smith, 1881).—Beu, 2005: 108; Darragh, 2023: 19, Fig. 11A–D [2024: 187].

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Indonesia (late Miocene). Indo-West Pacific and Atlantic-Mediterranean regions (living). *Age:* middle Miocene–present.

Superfamily Ficoidea

Family Ficidae

Ficus Röding, 1798

***Ficus altispira* (Pritchard, 1896) comb. nov.**

Pyrula altispira Pritchard, 1896: 85, pl. 3, figs 2, 3.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Order Neogastropoda
Superfamily Turbinelloidea

Family Turbinellidae

Vasum Röding, 1798

***Vasum* sp.**

Vasum sp. Darragh and Kendrick, 2010: 35, Fig. 5M.

Distribution. Carnarvon Basin: Merlinleigh Sandstone. *Age:* late Eocene.

Tudivasum Rosenberg and Petit, 1987

***Tudivasum turbinatum* (Tate, 1888) comb. nov.**

Tudicula turbinata Tate, 1888: 160, pl. 10, fig. 7.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Muddy Creek Formation. *Age:* middle Miocene.

***Tudivasum angulatum* (Tate, 1888) comb. nov.**

Tudicula angulata Tate, 1888: 160, pl. 10, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation. Age: middle Miocene.

***Tudivasum sinotectum* (Ludbrook, 1941) comb. nov.**

Tudicla sinotecta Ludbrook, 1941: 97, pl. 5, fig. 14

Tudicla (Tudicla) sinotecta Ludbrook, 1941.—Ludbrook, 1958: 73.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Tudivasum costatum* (Tate, 1888) comb. nov.**

Tudicula costata Tate, 1888: 159, pl. 10, fig. 8.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Altivasum Hedley, 1914

***Altivasum* sp. cf. *A. flindersi* (Verco, 1914)**

Distribution. Otway Basin: Gellibrand Formation. Age: early Miocene.

Family Columbariidae

Columbarium von Martens, 1881

***Columbarium rugatoides* Darragh, 1997**

Columbarium rugatoides Darragh, 1997: 77, Figs 4L,M.—Stilwell, 2005: 338, Fig. 2S.

Distribution. Perth Basin: Kings Park Formation? Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Columbarium cochleatum* (Tate, 1888)**

Fusus cochleatus Tate, 1888: 135, pl. 8, fig. 9.

Columbarium cochleatum (Tate, 1888).—Darragh, 1969: 74, pl. 3, figs 30, 38, 48, 50, fig. 17.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Columbarium calcaratum* Darragh, 1969**

Columbarium calcaratum Darragh, 1969: 75, pl. 3, figs 29, 33, 39.

Distribution. Otway Basin: Brown Creek Formation, Glen Aire Clay (type). Age: late Eocene–early Eocene.

***Columbarium uniliratum* Darragh, 1969**

Columbarium uniliratum Darragh, 1969: 76, pl. 3, figs 37, 42, 43, 45.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Columbarium echinatum* Darragh, 1969**

Columbarium acanthostephes echinatum Darragh, 1969: 77, pl. 3, figs 41, 44, 53, 56.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Fossil Bluff (type). Age: early Miocene.

***Columbarium acanthostephes* (Tate, 1888)**

Fusus acanthostephes Tate, 1888: 133, pl. 7, fig. 7.

Columbarium acanthostephes (Tate, 1888).—Harris, 1897: 52, pl. 3, figs 6a, b; Cossmann, 1901: 15, pl. 1, fig. 9, fig. 5.

Columbarium acanthostephes acanthostephes (Tate, 1888).—Darragh, 1969: 79, pl. 3, figs 47, 49, 51.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Columbarium vulsum* Darragh, 1969**

Columbarium acanthostephes vulsum Darragh, 1969: 80, pl. 3, figs 32, 35, 40, 46.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation, Port Campbell Limestone. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Columbarium spinulatum* Cossmann, 1901**

Fusus spiniferus Tate, 1888: 134, pl. 7, fig. 1 non Bellardi, 1872.

Columbarium spiniferum (Tate, 1888).—Harris, 1897: 54.

Columbarium spinulatum Cossmann, 1901: 16, footnote 1 nom. nov. for *Fusus spiniferus* Tate, 1888 non Bellardi, 1872.—Darragh, 1969: 78, pl. 3, figs 31, 52, 54, 55, 57; Ludbrook, 1973: pl. 26, fig. 67.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

Hispidofusus Darragh, 1969

***Hispidofusus piscatorius* Darragh, 1969**

Hispidofusus piscatorius Darragh, 1969: 68, pl. 2, figs 2, 3, fig. 16.

Distribution. Otway Basin: Fishing Point Marl (type), Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Age: early Miocene.

***Hispidofusus senticosus* (Tate, 1888)**

(Type species of genus OD)

Fusus senticosus Tate, 1888: 135, pl. 7, fig. 3.

Hispidofusus senticosus (Tate, 1888).—Darragh, 1969: 70, pl. 2, figs 1, 6, 7, 9, 14, fig. 12.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Family Costellariidae

Austromitra Finlay, 1926

***Austromitra pumila* (Tate, 1889)**

Peristernia pumila Tate, 1889: 117, pl. 8, fig. 4.

Austromitra pumila (Tate, 1889).—Cernohorsky, 1980: 157, Figs 111, 112.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Austromitra citharelloides* (Tate, 1889)**

Mitra (Costellaria) citharelloides Tate, 1889: 143, pl. 5, fig. 11.

Austromitra citharelloides (Tate, 1889).—Ludbrook, 1973: pl. 25, fig. 26.

Vexithara citharelloides (Tate, 1889).—Cernohorsky, 1972: 209.

Mitra citharelloides Tate, 1889.—Long, 1981: 51, pl. 7, fig. 19.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Austromitra ralphi* (Cossmann, 1900)**

Mitra (Pusio) semilaevis Tate, 1889: 143, pl. 5, fig. 9 non Edwards, 1857.

Mitra tatei Cossmann, 1899: 165 nom. nov. for *Mitra semilaevis* Tate, 1889 non Edwards, 1857.

Mitra ralphi Cossmann, 1900: 186 nom. nov. *Mitra tatei* Cossmann, 1899 non Angas, 1879.

Austromitra ralphi (Cossmann, 1900).—Cernohorsky, 1980: 157, Figs 113–116.

Distribution. Otway Basin: Gellibrand Formation. Muddy Creek Formation (type). Port Phillip Basin; Gellibrand Formation. Age: middle Miocene.

***Austromitra lacertosa* (Cernohorsky, 1970)**

Mitra (Costellaria) paucicostata Tate, 1889: 141, pl. 5, fig. 2 non Speyer, 1862 (Type species of *Balcomitra* Finlay, 1927: 508 OD).

Costellaria paucicostata (Tate, 1889).—Cossmann, 1899: 165, pl. 8, fig. 3.

Vexillum (Costellaria) lacertosum Cernohorsky, 1970: 28, pl. 9, fig. 2 nom. nov. for *Mitra paucicostata* Tate, 1889 non Speyer, 1862.

Austromitra lacertosa (Cernohorsky, 1970).—Cernohorsky, 1980: 161, Figs 121–123.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austromitra macra* (Finlay, 1927) comb. nov.**

Mitra (Costellaria) exilis Tate, 1889: 140, pl. 8, fig. 5 non Reeve, 1844.

Balcomitra macra Finlay, 1927: 508 nom. nov. for *Mitra exilis* Tate, 1889 non Reeve, 1844.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Austromitra angusticostata* Ludbrook, 1941**

Austromitra angusticostata Ludbrook, 1941: 96, pl. 5, fig. 13.—Ludbrook, 1958: 69; Cernohorsky, 1980: 159, Figs 117–120.

Austromitra mawsoni Ludbrook, 1958: 69, pl. 3, fig. 6.

Austromitra pauciplicata Ludbrook, 1958: 70, pl. 3, fig. 7.

Austromitra multiplicata Ludbrook, 1958: 71, pl. 3, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Austromitra sordida* (Tate, 1889)**

Mitra (Pusio) sordida Tate, 1889: 143, pl. 6, fig. 6.

Austromitra sordida (Tate, 1889).—Cernohorsky, 1980: 157, Figs 107–110.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Austromitra analogica* (Reeve, 1845)**

Austromitra pauciplicata Ludbrook, 1958.—Ludbrook, 1978: 159, pl. 17, figs 17, 18.

Distribution. Eucla Basin: Roe Calcarenite. Southern and eastern Australia (living). Age: late Pliocene–present.

Tosapusia Azuma, 1964

***Tosapusia kalimnanensis* (Cernohorsky, 1970)**

Mitra (Costellaria) terebraeformis Tate, 1889: 141, pl. 5, fig. 5 non Conrad, 1848.

Vexillum (Costellaria) kalimnanense Cernohorsky, 1970: 28, pl. 9, fig. 6 nom. nov. for *Mitra terebraeformis* Tate, 1889 non Conrad, 1848.—Cernohorsky, 1980: 120, Figs 22, 23.

Tosapusia kalimnanensis (Cernohorsky, 1970).—Fedosov et al., 2017: 564.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Turriplicifer Fedosov, Marrow, Hermann and Bouchet, 2017

***Turriplicifer australis* (Swainson, 1820)**

Mitra (Eumitra) australis Swainson, 1820.—Ludbrook, 1978: 159, pl. 18, figs 1, 2.

Distribution. Eucla Basin: Roe Calcarenite. Western and southern Australia (living). Age: late Pliocene–present.

Vexillum Röding, 1798

***Vexillum biornatum* (Tate, 1889)**

Mitra (Costellaria) biornata Tate, 1889: 142, pl. 5, fig. 10.

Vexillum (Costellaria) biornatum (Tate, 1889).—Cernohorsky, 1980: 116, Figs 14, 15.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Vexillum leptaleum* (Tate, 1889)**

Mitra (Zierliana) escharoides Tate, 1889: 139, pl. 5, figs 8a, b.

Mitra (Costellaria) leptalea Tate, 1889: 140, pl. 5, fig. 3.

Uromitra leptalea (Tate, 1889).—Harris, 1897: 125, pl. 5, figs 3a, b.

Vexillum (Costellaria) leptaleum (Tate, 1889).—Cernohorsky, 1970: 82, pl. 9, fig. 3; Cernohorsky, 1980: 114, Figs 6–11.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Vexillum euglypha* (Tate, 1889)**

Mitra (Costellaria) euglypha Tate, 1889: 140, pl. 5, fig. 13.

Vexillum (Costellaria) euglypha (Tate, 1889).—Cernohorsky, 1980: 115, Figs 12, 13.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene–early Pliocene.

***Vexillum lincolnense* (Angas, 1878)**

Austromitra lincolnensis (Angas, 1878).—Ludbrook, 1978: 158, pl. 17, figs 15, 16.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Family Volutomitridae*Volutomitra* H. and A. Adams, 1853***Volutomitra dilwyni* Stilwell, 2003***Volutomitra* (*Waimatea*) *dilwyni* Stilwell, 2003: 261, Figs 6A–C, F.*Distribution*. Otway Basin: Dilwyn Formation (type). *Age*: early Eocene.***Volutomitra subcrenularis* Tate, 1889***Mitra* (*Costellaria*) *subcrenularis* Tate, 1889: 142, pl. 5, fig. 6.*Microvoluta subcrenularis* (Tate, 1889).—Cernohorsky, 1970: 120, pl. 5, fig. 5; Darragh, 2017: 86, Fig. 8.21.*Waimatea subcrenularis* (Tate, 1889).—Cernohorsky, 1972: 226; Ludbrook, 1973: pl. 25, fig. 25.*Microvoluta* cf. *M. subcrenularis* (Tate, 1889).—Darragh, 2017: 86, Figs 8.19–20.*Distribution*. Eucla Basin: Pallinup Formation (cf.). St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age*: late Eocene.***Volutomitra atypha* (Tate, 1889)***Mitra* (*Strigatella*) *atypha* Tate, 1889: 138, pl. 4, fig. 6.*?Microvoluta atypha* (Tate, 1889).—Cernohorsky, 1970: 120.*Distribution*. Otway Basin: Grange Burn Formation (type). *Age*: early Pliocene.***Volutomitra obscura* (Hutton, 1873)***Waimatea obscura* (Hutton, 1873).—Ludbrook, 1978: 161, pl. 22, figs 24, 25.*Distribution*: Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.*Microvoluta* Angas, 1877***Microvoluta?* sp.***Microvoluta?* sp. Stilwell, 2003: 264, Figs 6G, H.*Distribution*. Otway Basin: Dilwyn Formation. *Age*: early Eocene.***Microvoluta complanata* (Tate, 1889)***Mitra* (*Strigatella*) *complanata* Tate, 1889: 138, pl. 5, fig. 12.*Microvoluta complanata* (Tate, 1889).—Cernohorsky, 1970: 119, pl. 15, fig. 4; Darragh, 2017: 87, Fig. 8.17.*Waimatea complanata* (Tate, 1889).—Cernohorsky, 1972: 210; Ludbrook, 1973: pl. 25, fig. 24.*Microvoluta* cf. *M. complanata* (Tate, 1889).—Darragh, 2017: 87, Figs 8.15–16.*Distribution*. Eucla Basin: Pallinup Formation (cf.). St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age*: late Eocene.***Microvoluta othone* (Tenison Woods, 1879) comb. nov.***Mitra othone* Tenison Woods, 1879b: 8, pl. 2, fig. 4.*Mitra* (*Cancilla*) *othone* Tenison Woods, 1879.—Tate, 1889: 139, pl. 4, fig. 10.*Waimatea othone* (Tenison Woods, 1879).—Cernohorsky, 1970: 131, pl. 17, figs 2, 3; Cernohorsky, 1972: 221.*Distribution*. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.***Microvoluta atractoides* (Tate, 1889) comb. nov.***Mitra* (*Cancilla*) *atractoides* Tate, 1889: 139, pl. 4, fig. 11.—Harris, 1897: 123, pl. 5, figs 2a, b.*Proximitra atractoides atractoides* (Tate, 1889).—Cernohorsky, 1970, 135, pl. 18, fig. 5.*Proximitra atractoides* (Tate, 1889).—Cernohorsky, 1972: 207.*Distribution*. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.*Peculator* Iredale, 1924***Peculator conoidalis* (Tate, 1889) comb. nov.***Mitra* (*Pusio*) *conoidalis* Tate, 1889: 144, pl. 10, figs 2a, b.*Waimatea conoidalis* (Tate, 1889).—Cernohorsky, 1970: 128, Fig. 216; Cernohorsky, 1972: 210.*Distribution*. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.***Peculator clathurella* (Tate, 1889) comb. nov.***Mitra* (*Costellaria*) *clathurella* Tate, 1889: 142, pl. 8, fig. 8.*Proximitra* (*Parvimitra*) *clathurella* (Tate, 1889).—Cernohorsky, 1970: 138, Fig. 219; Cernohorsky, 1972: 209.*Distribution*. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.***Peculator cassida* (Tate, 1889) comb. nov.***Mitra* (*Pusio*) *cassida* Tate, 1889: 144, pl. 6, fig. 5.*Peculator cassida* (Tate, 1889).—Cernohorsky, 1970: 117, pl. 14, fig. 20; Cernohorsky, 1972: 209.*Distribution*. Otway Basin: Grange Burn Formation (type). *Age*: early Pliocene.*Proximitra* Finlay, 1926***Proximitra trirugulata* Darragh, 1997***Proximitra trirugulata* Darragh, 1997: 80, Figs 4A–F; cf. Stilwell, 2003: 263, Figs 5Z, BB, CC.*Distribution*. Otway Basin: Pebble Point Formation (type), Dilwyn Formation. *Age*: late Pliocene–early Eocene?*Conomitra* Conrad, 1865***Conomitra strombodiformis* Darragh, 2017***Conomitra strombodiformis* Darragh, 2017: 86, Figs 8.5–8, 8.13–14.*Distribution*. Eucla Basin: Pallinup Formation (type). *Age*: late Eocene.***Conomitra? anticoronata* (Johnston, 1880)***Mitra coronata* Johnston, 1880: 34.*Distribution*. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Conomitra pentaploca* (Finlay, 1927)**

Mitra (*Strigatella*) *ligata* Tate, 1889: 139, pl. 5, fig. 4 non A. Adams, 1853.

Microvoluta pentaploca Finlay, 1927: 508 nom. nov. for *Mitra* (*Strigatella*) *ligata* Tate, 1889 non A. Adams, 1853.

Conomitra pentaploca (Finlay, 1927).—Cernohorsky, 1970: 113, pl. 14, fig. 12.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Superfamily Muricoidea

Family Muricidae

Hexaplex Perry, 1810

***Hexaplex?* *tridentatus* (Tate, 1888)**

Murex (*Ocenebra*) *tridentatus* Tate, 1888: 108, pl. 2, fig. 2.

Hexaplex? *tridentatus* (Tate, 1888).—Darragh, 2017: 76, Figs 6.1–2, 7, 8.

Distribution. Eucla Basin. Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Hexaplex eyrei* (Tenison Woods, 1877) comb. nov.**

Murex eyrei Tenison Woods, 1877: 93.—Johnston, 1888: pl. 31, figs 3, 3a.

Murex (*Phyllonotus*) *eyrei* Tenison Woods, 1877.—Tate, 1888: 103, pl. 4, fig. 8.

?*Hexaplex aculeatus* (Tate, 1888).—Merle et al., 2011: Figs 36.6a, b non Tate.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early–middle Miocene.

***Hexaplex camplytropis* (Tate, 1888) comb. nov.**

Murex (*Ocenebra*) *camplytropis* Tate, 1888: 105, pl. 3, fig. 2.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Hexaplex asperulus* (Tate, 1888) comb. nov.**

Murex (*Ocenebra*) *asperulus* Tate, 1888: 106, pl. 3, fig. 1.

Murex (*Muricidea*) *asperulus* Tate, 1888.—Harris, 1897: 183, pl. 5, figs 10a–d.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Hexaplex trochispira* (Tate, 1888) comb. nov.**

Murex (*Ocenebra*) *trochispira* Tate, 1888: 106, pl. 3, fig. 13.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Hexaplex graniformis* (Harris, 1897) comb. nov.**

Murex (*Ocenebra*) *alveolatus* Tate, 1888: 108, pl. 3, fig. 12 non J. de C. Sowerby, 1823.

Murex (*Muricopsis*) *graniformis* Harris, 1897: 180 nom. nov. for *Murex* (*Ocenebra*) *alveolatus* Tate, 1888 non J. de C. Sowerby, 1823.

Muricopsis subalveolatus Cossmann, 1907: 200 nom. nov. for *Murex* (*Ocenebra*) *alveolatus* Tate, 1888 non J. de C. Sowerby, 1823.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Hexaplex biconicus* (Tate, 1888)**

Murex (*Ocenebra*) *biconicus* Tate, 1888: 105, pl. 1, fig. 3.

Hexaplex (*Murexsul*) *biconicus* (Tate, 1888).—Ludbrook, 1958: 57, pl. 2, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Coralliophila H. and A. Adams, 1853

***Coralliophila* sp.**

Coralliophila sp. Darragh, 2017: 78, Figs 7.20–22, 7.26–27.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Coralliophila crassiplicata* (Ludbrook, 1941) comb. nov.**

Widningia crassiplicata Ludbrook, 1941: 95, pl. 5, fig. 25.

Bedevea crassiplicata (Ludbrook, 1941).—Ludbrook, 1958: 60; Ludbrook, 1973: pl. 28, fig. 102.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Liniaxis Laseyron, 1955

***Liniaxis?* *gatliffi* (Chapman, 1922) comb. nov.**

Murex (*Muricidea*) *gatliffi* Chapman, 1922: 13, pl. 3, fig. 19.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Mipus de Gregorio, 1885

***Mipus curtansata* (Tate, 1888) comb. nov.**

Vitularia curtansata Tate, 1888: 114, pl. 6, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Vitularia Swainson, 1840

***Vitularia dissitus* (Cotton, 1947) comb. nov.**

Latiaxis dissitus Cotton, 1947: 667, pl. 21, figs 9, 10; Ludbrook, 1958: 61.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Vokesimurex Petuch, 1994

***Vokesimurex multiplicatus* (Sowerby, 1895)**

Murex (*Haustellum?*) *darraghi* Ludbrook, 1978: 143, pl. 15, figs 19, 20.

Haustellum multiplicatus darraghi (Ludbrook, 1978).—Ponder and Vokes, 1988: 120, figs 52, 62, 79f.

Vokesimurex multiplicatus darraghi (Ludbrook, 1978).—Merle et al., 2011: 70, 231.

Distribution. Eucla Basin: Roe Calcarenite (type of *H. darraghi*). Northern Australia (living). Age: late Pliocene–present.

Chicomurex Arakawa, 1964

***Chicomurex lophoessus* (Tate, 1888)**

Murex (Chicoreus) lophoessus Tate, 1888: 98, pl. 2, fig. 5.

Chicomurex lophoessus (Tate, 1888).—Houart, 1992: 140, Figs 84, 85, 246, 247; Merle et al., 2011: 110, pl. 76, figs 2, 3a, b, fig. 42d.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Ocenebra Gray, 1947

***Ocenebra* sp.**

Murexsul sp. Darragh and Kendrick, 2008: 237, Figs 2.7–8.

Distribution: Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Ocenebra prionotus* (Tate, 1888)**

Murex (Ocenebra) prionotus Tate, 1888: 107, pl. 1, fig. 5.

Murexul prionotus (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 45.

Ocenebra prionotus (Tate, 1888).—Darragh, 2017: 77, Figs 6.5–6.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Murexiella Clench and Pérez Farfante, 1945

***Murexiella perculata* Vokes, 1985**

Murexiella perculata Vokes, 1985b: 69, pl. 1, figs 1–5.

Distribution. Otway Basin: Fishing Point Marl (type), Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: early–middle Miocene.

Pygmaepterys E. H. Vokes, 1978

***Pygmaepterys crassiliratus* (Tate, 1888) comb. nov.**

Murex (Ocenebra) crassiliratus Tate: 1888: 107, pl. 3, fig. 5.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Paziella Joussemae, 1880

***Paziella sublaevis* (Tate, 1888)**

Murex (Phyllonotus) sublaevis Tate, 1888: 104, pl. 3, fig. 3.

Poiriera sublaevis (Tate, 1888).—Ludbrook, 1973, pl. 25, fig. 47.

Paziella sublaevis (Tate, 1888).—Merle et al., 2011: 164, pl. 132, figs 1a, b.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Paziella legrandi* (Johnston, 1880)**

Murex legrandi Johnston, 1880: 32.

Murex (Phyllonotus) legrandi Johnston, 1880.—Tate, 1888: 104, pl. 11, fig. 9.

?*Paziella legrandi* (Johnston, 1880).—Merle et al, 2011: 164.

Distribution. Bass Basin. Freestone Cove Sandstone (type). Age: early Miocene.

***Paziella aculeatus* (Tate, 1888)**

Rapana aculeata Tate, 1888: 113, pl. 2, fig. 8.

Paziella eyrei (Tenison Woods, 1877).—Merle et al, 2011: 164, pl. 132, figs 2a, b, fig. 57E.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Murexsul Iredale, 1915

***Murexsul suboctogonus* (Ludbrook, 1958)**

Hexaplex (Murexsul) suboctogonus Ludbrook, 1958: 57, pl. 2, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Subpterynotus Olsson and Harbison, 1958

***Subpterynotus wallacei* (Pritchard, 1898) comb. nov.**

Murex wallacei Pritchard, 1898: 104, pl. 7, fig. 3.

Distribution. Port Phillip Basin: Gellibrand Formation. (type). Age: middle Miocene.

***Subpterynotus antecedens* (Ludbrook, 1958)**

Homolocantha antecedens Ludbrook, 1958: 58, pl. 2, fig. 18.

Murexiella (Subpterynotus sic) antecedens (Ludbrook, 1958).—Ludbrook, 1973, pl. 28, fig. 101.

Murexiella (Subpterynotus) antecedens (Ludbrook, 1958).—Vokes, 1974b: 12, pl. 2, figs 1a, b.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Chicoreus Montfort, 1810

***Chicoreus basicinctus* (Tate, 1888)**

Murex (Chicoreus) basicinctus Tate, 1888: 99, pl. 2, fig. 9.

Murex basicinctus Tate, 1888.—Ludbrook, 1961b: pl. 7, fig. 3.

Chicoreus (Triplex) basicinctus (Tate, 1888).—Houart, 1992: 136, Figs 80, 452, 453; Merle et al., 2011: 104, pl. 48, figs 1a, b.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Muddy Creek Formation. Age: middle Miocene.

***Chicoreus dennanti* (Tate, 1888)**

Murex (Chicoreus) dennanti Tate, 1888: 98, pl. 2, fig. 7.

Murex (Euphyllon) dennanti Tate, 1888.—Cossmann, 1903: 24, pl. 1, fig. 7.

Chicoreus (Triplex) dennanti (Tate, 1888).—Houart, 1992: 136, Figs 79, 244, 245.

Distribution. Otway Basin; Muddy Creek Formation (type). Age: middle Miocene.

***Chicoreus ambylyceras* (Tate, 1888)**

Murex (*Chicoreus*) *ambylyceras* Tate, 1888: 101, pl. 2, fig. 12.

Chicoreus (*Triplex*) *ambylyceras* (Tate, 1888).—Houart, 1992: 135, Figs 82, 450, 451.

Chicoreus (*Triplex*) cf. *ambylyceras* (Tate, 1888).—Houart, 1992: 136, Figs 81, 454–456; Merle et al., 2011: 104, pl. 48, figs 2, 3.

Distribution. Otway Basin; Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Chicoreus lundeliusae* Ludbrook, 1978**

Chicoreus (*Chicoreus*) *lundeliusae* Ludbrook, 1978: 140, pl. 16, figs 1–8.

Chicoreus (*Triplex*) *lundeliusae* (Ludbrook, 1978).—Houart, 1992: 138, Figs 479, 480; Merle et al., 2011: 105, pl. 49, figs 4, 5.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

Siratus Jousseume, 1880

***Siratus peramangus* (Ludbrook, 1941)**

Murex peramangus Ludbrook, 1941: 95, pl. 5, fig. 24.

Trunculariopsis peramangus (Ludbrook, 1941).—Ludbrook, 1958: 56, pl. 2, fig. 16.

Siratus peramangus (Ludbrook, 1941).—Merle et al., 2011: 73, pl. 21, figs 8a, b.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Timbellus de Gregorio, 1885

***Timbellus calvus* (Tate, 1888)**

Murex (*Pteronotus*) *calvus* Tate, 1888: 96, pl. 1, fig. 11.

Pterynotus (*P.*) *calvus* Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 50.

Timbellus calvus (Tate, 1888).—Merle et al., 2011: 134, 434, pl. 95, figs 1a, b, 2, 3; Darragh, 2017: 73, Figs 6.14, 6.19–20.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. Age: late Eocene–early Eocene.

***Timbellus bifrons* (Tate, 1888)**

Murex (*Pteronotus*) *bifrons* Tate, 1888: 97, pl. 1, fig. 12 non Tournouer in Saporta and Marion, 1875.

Pterynotus (*P.*) *bifrons* Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 49.

Timbellus bifrons (Tate, 1888).—Merle et al., 2011: 134, 434, pl. 95, figs 4a, b, 5, 6.

Distribution. St Vincent Basin: Blanche Point (type). Age: late Eocene.

***Timbellus velificus* (Tate, 1888)**

Murex (*Pteronotus*) *velificus* Tate, 1888: 95, pl. 1, fig. 8.

Timbellus velificus (Tate, 1888).—Merle et al., 2011: 134, 434, pl. 95, figs 7, 8a, b.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Timbellus didymus* (Tate, 1888)**

Murex (*Pteronotus*) *didymus* Tate, 1888: 97, pl. 4, fig. 13.

Timbellus didymus (Tate, 1888).—Merle et al., 2011: 236.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Pterochelus Jousseume, 1880

***Pterochelus adelaidensis* (Tate, 1888)**

Murex (*Chicoreus*) *adelaidensis* Tate, 1888: 99, pl. 2, fig. 4.

Pterynotus (*Pterochelus*) *adelaidensis* (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 48.

? *Pterochelus* *adelaidensis* (Tate, 1888).—Merle et al., 2011: 140, 474, pl. 115, figs 10, 11.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Pterochelus manubriatus* (Tate, 1888)**

Murex (*Pteronotus*) *manubriatus* Tate, 1888: 96: pl. 1, fig. 9.

Pterynotus (*Pterochelus*) *manubriatus* (Tate, 1888).—Ludbrook, 1973: pl. 25, figs 41, 42.

Pterochelus manubriatus (Tate, 1888).—Merle et al., 2011: 139, 474, pl. 115, figs 1a, b.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Pterochelus tenuicornis* (Tate, 1888)**

Murex (*Chicoreus*) *tenuicornis* Tate, 1888: 100: pl. 2, fig. 6.

Pterynotus (*Pterochelus*) *tenuicornis* (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 43.

Pterochelus tenuicornis (Tate, 1888).—Merle et al., 2011: 139, 474, pl. 115, figs 2a, b.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Pterochelus rhyus* (Tate, 1888)**

Murex (*Pteronotus*) *rhyus* Tate, 1888: 95, pl. 1, fig. 7.

Pterochelus rhyus (Tate, 1888).—Merle et al., 2011: 139, 474, pl. 115, figs 3a, b.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Pterochelus triformis* (Reeve, 1845)**

Pterynotus (*Pterynotus*) *triformis* (Reeve, 1845).—Ludbrook, 1978: 142, pl. 15, figs 17, 18.

Distribution. Eucla Basin: Roe Calcarene. Southern Australia (living). Age: late Pliocene–present.

***Pterochelus undosus* (Vokes, 1993)**

Pterynotus (*Pterochelus*) *undosus* Vokes, 1993: 104, pl. 6, fig. 5.

Distribution. Eucla Basin: Roe Calcarenite. Southwestern Australia (living). *Age:* late Pliocene–present.

Prototyphis Ponder, 1972

***Prototyphis otwayensis* (Harris, 1897)**

Murex (Triplex) otwayensis Harris, 1897: 177, pl. 6, figs 5a–d.

Prototyphis otwayensis (Harris, 1897).—Merle et al., 2011: 149, 490, pl. 123, figs 1a, b, 2a, b.

Distribution: Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Prototyphis extrinodosus* (Sacco, 1904)**

Murex (Pteronotus) trinodosus Tate, 1888: 96, pl. 1, fig. 4 non Bellardi, 1872.

Murex extrinodosus Sacco, 1904: 19 nom. nov. for *Murex (Pteronotus) trinodosus* Tate, 1888 non Bellardi, 1872.

Pterynotus (Pterochelus) trinodosus (Tate, 1888)?.—Ludbrook, 1958: 58, pl. 2, fig. 14.

Prototyphis extrinodosus (Tate, 1888).—Merle et al., 2011: 149, 490, pl. 123, figs 3, 4.

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). *Age:* middle Miocene?, early Pliocene.

Attiliosa Emerson, 1968

***Attiliosa arenaria* Darragh, 2017**

Attiliosa arenaria Darragh, 2017: 77, Figs 6.3–4.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Dermomurex Monterosato, 1890

***Dermomurex silicatus* Darragh, 2017**

Dermomurex silicatus Darragh, 2017: 74, Figs 6.25–27.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Dermomurex* sp.**

Dermomurex sp. Darragh, 2017: 76, Figs 6.15–18.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Dermomurex cretaceus* Vokes, 1985**

Dermomurex (Takia) cretaceus Vokes, 1985a: 52, pl. 2, figs 4–6.—Merle et al., 2011: 221, 592, pl. 174, figs 1a, b.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Dermomurex imitator* Vokes, 1985**

Dermomurex (Takia) imitator Vokes, 1985a: 53, pl. 2, fig. 1.—Merle et al., 2011: 227, 604, pl. 180, figs 2a, b.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Dermomurex darraghi* Vokes, 1985**

Dermomurex (Viator) darraghi Vokes, 1985a: 55, pl. 3, figs 3, 4.—Merle et al., 2011: 227, 592, pl. 180, figs 5a, b, figs 77c, d.

Distribution. Otway Basin: Fishing Point Marl, Gellibrand Formation (type). *Age:* early Miocene.

***Dermomurex garrardi* Vokes 1985**

Dermomurex (Dermomurex) garrardi Vokes, 1985a: 49, pl. 1, figs 1–4.—Merle et al., 2011: 221, 592, pl. 174, figs 2a, b, 3a, b.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Dermomurex pachystirus* (Tate, 1888)**

Murex (Rhinocantha) pachystirus Tate, 1888: 102, pl. 2, fig. 11.

Murex pachystirus Tate, 1888.—Ludbrook, 1961b: pl. 7, fig. 6.

Dermomurex (Takia) pachystirus (Tate, 1888).—Vokes, 1985a: 54, pl. 2, fig. 3; Merle et al., 2011: 227, 592, pl. 180, figs 4a, b.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Muddy Creek Formation. *Age:* middle Miocene.

***Dermomurex asteriscus* (Tate, 1888)**

Murex (Rhinocantha) asteriscus Tate, 1888: 102, pl. 2, fig. 10.

Dermomurex (Viator) asteriscus (Tate, 1888).—Vokes, 1974a: 5, pl. 1, figs 3a, b; Vokes, 1975: 127, 153, pl. 6, fig. 3; Vokes, 1985a: 56, pl. 3, figs 1, 2; Merle et al., 2011: 227, 592, pl. 180, figs 3a, b, figs 77e, f.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Dermomurex goldsteini* (Tenison Woods, 1876)**

Trophon (Litozamia) goldsteini Tenison Woods, 1876.—Ludbrook, 1958: 59, pl. 2, figs 12, 13.

Dermomurex (Dermomurex) goldsteini (Tenison Woods, 1876).—Vokes, 1985a: 50, pl. 1, figs 5, 6.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation. Southern and eastern Australia (living). *Age:* middle Miocene–present.

***Dermomurex glebosus* Vokes, 1985**

Dermomurex (Takia) glebosus Vokes, 1985a: 54, pl. 3, figs 5–7.—Merle et al., 2011: 221, 592, pl. 174, figs 4a, b.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Gemixystus Iredale, 1929

***Gemixystus hypsellus* (Tate, 1888) comb. nov.**

Trophon hypsellus Tate, 1888: 111, pl. 2, fig. 1.

Trophon (Trophonopsis) hypsellus Tate, 1888.—Cossmann, 1903: 53, pl. 2, fig. 15, fig. 3.

Trophon (Zeatrophon) hypsellus Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 40.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Gemixystus icosiphyllus* (Tate, 1888)**

Trophon icosiphyllus Tate, 1888: 110, pl. 2, fig. 3.

Trophon (Gemixystus) icosiphyllus Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 51.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Age: late Eocene.

***Gemixystus torquatus* (Tate, 1888) comb. nov.**

Trophon torquatus Tate, 1888: 110, pl. 6, figs 2a, b.

Trophon (Zeatrophon) torquatus Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 53.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Gemixystus? minutus* (Johnston, 1880) comb. nov.**

Murex minutus Johnston, 1880: 32.—Tate, 1888: 107, pl. 10, fig. 14; Johnston, 1888: pl. 29, fig. 7.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Gemixystus polyphyllus* (Tenison Woods, 1879) comb. nov.**

Trophon polyphyllia Tenison Woods, 1879b: 7, pl. 2, fig. 1.

Trophon polyphyllus Tenison Woods, 1879.—Tate, 1888: 109.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Trophon Montfort, 1910

***Trophon? basedowi* (Cossmann, 1903) comb. nov.**

Murex (Chicoreus) irregularis Tate, 1888: 102, pl. 6, fig. 3 non Bellardi, 1872.

Hadriana basedowi Cossmann, 1903: 46 nom. nov. for *Murex (Chicoreus) irregularis* Tate, 1888 non Bellardi, 1872.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Trophon? hamiltonensis* (Tate, 1888) comb. nov.**

Murex (Chicoreus) hamiltonensis Tate, 1888: 101, pl. 3, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Enatimene Iredale, 1929

***Enatimene monotropis* (Tate, 1888)**

Trophon monotropis Tate, 1888: 111, pl. 3, fig. 4.

Trophon (Enatimene) monotropis Tate, 1888.—Ludbrook, 1973: pl. 25, fig. 39.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Enatimene simplex* (Hedley, 1903)**

Trophon (Enatimene) metungensis Chapman and Crespin, 1933: 71, pl. 5, fig. 9.—?Ludbrook, 1958: 60.

Distribution. St Vincent Basin: Dry Creek Sands? Gippsland Basin: Jemmys Point Formation. Eastern and southeastern Australia (living). *Age:* early Pliocene–present.

Bedeve Iredale, 1924

***Bedeve approximans* (Tate, 1888) comb. nov.**

Peristernia approximans Tate, 1888: 153, pl. 9, fig. 2.

Peristernia purpuroides Tate, 1888: 154, pl. 9, fig. 3.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Bedeve anceps* (Tate, 1888) comb. nov.**

Trophon anceps Tate, 1888: 112, pl. 9, fig. 6.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type).
Age: late Pliocene.

***Bedeve flindersi* (Adams and Adams, 1863)**

Lepsiella flindersi (Adams and Adams, 1863).—Ludbrook, 1958: 145, pl. 17, figs 12, 13.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Bedeve* sp.**

Lepsiella sp. Ludbrook, 1958: 146, pl. 20, figs 35, 36.

Distribution. Eucla Basin: Roe Calcarenite.

Age: late Pliocene.

***Bedeve paivae* (Crosse, 1864)**

Distribution. Bass Basin: Memana Formation. Southern and eastern Australia (living). *Age:* early Pleistocene–present.

Drupella Thiele, 1925

***Drupella margariticola* (Broderip, 1833)**

“*Thais*” *crassulnata* Hedley, 1915.—Ludbrook, 1978: 144, pl. 15, fig. 24.

Distribution. Eucla Basin: Roe Calcarenite. Northern Australia (living). *Age:* late Pliocene–present.

Typhis Montfort, 1810

***Typhis maccoyi* Tenison Woods, 1876**

Typhis m'coyi Tenison Woods, 1876: 22, fig. 5.—Johnston, 1888: pl. 29, fig. 11.

Typhis mccooyii Tenison Woods, 1876: Tate, 1888: 91.

Typhis (Typhina) m'coyi Tenison Woods, 1876.—Cossmann, 1903: 58, pl. 2, fig. 16.

Typhis (Typhis) maccoyi Tenison Woods, 1876.—Vella, 1961: 383, pl. 47, fig. 25, Fig. 4.10.

Typhis (Typhina) maccoyi Tenison Woods, 1876.—Keen and Campbell, 1964: 48, pl. 8, fig. 8; Ludbrook, 1967: 68, pl. 2, figs 3, 4.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin; Jan Juc Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* late Oligocene–middle Miocene.

***Typhis acanthopterus* Tate, 1888**

Typhis acanthopterus Tate, 1888: 92, pl. 1, fig. 2.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

Monstrotyphis Habe, 1961

***Monstrotyphis yatesi* (Crosse, 1865)**

Typhis (*Typhina*) *yatesi* Crosse and Fischer, 1865.—Ludbrook, 1978: 144, pl. 15, figs 22, 23.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Siphonochelus Jousseume, 1880

***Siphonochelus evaricosus* (Tate, 1888) comb. nov.**

Typhis evaricosus Tate, 1888: 94, pl. 1, fig. 6.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). *Age:* middle Miocene.

***Siphonochelus syringianus* (Hedley, 1903)**

Typhis (*Cyphonochelus*) *rugicostatus* Chapman and Crespin, 1933: 72, pl. 5, fig. 10.

Distribution. Gippsland Basin: Jemmys Point Formation. Southern and eastern Australia (living). *Age:* early Pliocene–present.

Typhina Jousseume, 1880

***Typhina laciniata* (Tate, 1888) comb. nov.**

Typhis laciniatus Tate, 1888: 93, pl. 1, fig. 10.

Typhis (*Typhis*) *laciniatus* Tate, 1888.—Ludbrook, 1958: 60.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Typhina disjuncta* (Tate, 1888)**

Typhis disjunctus Tate, 1888: 92, pl. 1, fig. 1.

Typhis (*Typhina*) *disjunctus* (Tate, 1888) .—Keen and Campbell, 1964: 48, pl. 8, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Laevityphis Cossmann, 1903

***Laevityphis ludbrookae* Keen and Campbell, 1964**

Typhis tripterus Tate, 1888: 93, pl. 3, fig. 14 non Grateloup, 1833.

Laevityphis (*Laevityphis*) *ludbrookae* Keen and Campbell, 1964: 52, pl. 10, figs 33, 34, 36 nom. nov. for *Typhis tripterus* Tate, 1888 non Grateloup, 1833.—Ludbrook, 1973: pl. 25, fig. 46.

Laevityphis ludbrookae Keen and Campbell, 1964: Darragh, 2017: 78, Figs 7.17–19.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

Phycothais Tan, 2003

***Phycothais subreticulata* (Tate, 1888) comb. nov.**

Ricinula subreticulata Tate, 1888: 114, pl. 12, fig. 7.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Dicathais Macpherson and Gabriel, 1962

***Dicathais abjecta* (Tate, 1888) comb. nov.**

Purpura (*Trochia*) *abjecta* Tate, 1888: 114, pl. 12, fig. 8.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Edithais Vermeij, 1998

***Edithias antiquata* (Tate, 1894) comb. nov.**

Concholepas antiquata Tate, 1894: 171, pl. 10, fig. 2.—Beu, 1970: 41, pl. 4, figs 4–9.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Superfamily Buccinoidea

Family Dolicholatiridae

Dolicholaturus Bellardi, 1884

***Dolicholaturus cingulata* (Pritchard, 1896) comb. nov.**

Latirofuscus cingulata Pritchard, 1896: 83, pl. 2, figs 5, 6.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* late Oligocene–early Miocene.

***Dolicholaturus aciformis* (Tate, 1888) comb. nov.**

Fusus aciformis Tate, 1888: 139, pl. 7, figs 5a, b.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Family Columbellidae

Mitrella Risso, 1826

***Mitrella* sp.**

Mitrella sp. Darragh, 2017: 70, Fig. 5.38.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Mitrella oxleyi* (Tenison Woods, 1876) comb. nov.**

Columbella oxleyi Tenison Woods, 1876: 111.—May, 1919: 72, pl. 11, fig. 17.

Columbella cainozoica Tenison Woods, 1876: 110.—May, 1919: 72, pl. 11, fig. 16.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

Remarks. May (1919) regarded these two species as conspecific. Though *C. cainozoica* has page priority, the type specimen is a juvenile broken specimen, so *C. oxleyi* is chosen as the senior synonym as the type is a complete adult specimen.

***Mitrella muscula* (Ludbrook, 1941)**

Zemitrella muscula Ludbrook, 1941: 96, pl. 5, fig. 12.

Mitrella (*Dentimitrella*) *muscula* (Ludbrook, 1941).—Ludbrook, 1958: 62.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Mitrella lincolnensis* (Reeve, 1859)**

Mitrella (*Dentimitrella*) *lincolnensis* (Reeve, 1859).—Ludbrook, 1958: 62, pl. 3, fig. 5; Ludbrook, 1978: 147, pl. 15, fig. 26.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Southern and eastern Australia. *Age*: middle Miocene–present.

***Mitrella menkeana* (Reeve, 1858)**

Mitrella (*Dentimitrella*) *purpureocincta* (Verco, 1910).—Ludbrook, 1978: 148, pl. 15, figs 27, 28.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age*: late Pliocene–present.

Admitrella Ludbrook, 1941

***Admitrella insolentior* Ludbrook, 1941**

(Type species of genus OD)

Ademitrella insolentior Ludbrook, 1941: 96, pl. 5, fig. 11.

Mitrella (*Ademitrella*) *insolentior* (Ludbrook, 1941).—Ludbrook, 1958: 63; Ludbrook, 1978: 147, pl. 15, fig. 25.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene, late Pliocene.

Retizafra Hedley, 1913

***Retizafra* sp.**

Retizafra sp. Darragh, 2017: 70, Figs 5.32–33.

Distribution. Eucla Basin: Pallinup Formation. *Age*: late Eocene.

***Retizafra? gracililirata* (Tenison Wood, 1877)**

Mangelia gracililirata Tenison Wood, 1877: 106.—May, 1919: 72, pl. 10, fig. 15.

Retizafra? gracililirata (Tenison Wood, 1877).—Powell, 1944: 58.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Retizafra semicostata* (Tenison Woods, 1879) comb. nov.**

Aesopus semicostatus Tenison Woods, 1879b: 14, pl. 3, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Retizafra? trophonalis* (Chapman and Crespin, 1928)**

Etrema trophonalis Chapman and Crespin, 1928: 122, pl. 9, fig. 59.

Retizafra trophonalis (Chapman and Crespin, 1928).—Powell, 1944: 55.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

Antizafra Finlay, 1926

***Antizafa balcombensis* (Pritchard, 1904) comb. nov.**

Columbella balcombensis Pritchard, 1904: 324, pl. 18, figs 10, 11.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

***Antizafa approximans* (Pritchard, 1904) comb. nov.**

Columbella approximans Pritchard, 1904: 325, pl. 18, figs 12, 13.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

***Antizafa woodsi* (Pritchard, 1904) comb. nov.**

Fusus funiculatus Tenison Woods, 1879a: 225, pl. 20, fig. 1 non Reeve, 1846.

Columbella woodsi Pritchard, 1904: 326 nom. nov. for *Fusus funiculatus* Tenison Woods, 1879 non Reeve, 1846.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type) Port Phillip Basin: Gellibrand Formation. *Age*: middle Miocene.

Turricolumbus Cossmann, 1901

***Turricolumbus crebrecostatus* (Tenison Woods, 1879)**

(Type species of genus OD)

?*Aesopus crebrecostatus* Tenison Woods, 1879b: 15, pl. 3, fig. 5.

Anachis (*Turricolumbus*) *crebricostatus*[sic] (Tenison Woods, 1879).—Cossmann, 1901: 239, pl. 10, figs 11, 12, Fig.53.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age*: middle Miocene.

Incertae sedis

Eucithara subglabra Chapman and Crespin, 1928: 121, pl. 9, fig. 58.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age*: late Miocene.

Family Colubrariidae

Colubraria Schuhmacher, 1817

***Colubraria texturata* (Tate, 1888) comb. nov.**

Epidromus texturatus Tate, 1888: 130, pl. 6, fig.10.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

Cumia Bivonia, 1838

***Cumia? tasmanica* (Johnston, 1880) comb. nov.**

Triton tasmanicus Johnston, 1880: 33.

Epidromus tasmanicus (Johnston, 1888).—Tate, 1888: 129, pl. 11, fig. 11.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Cumia tenuicostata* (Tenison Woods, 1879) comb. nov.**

Pisania tenuicostata Tenison Woods, 1879a: 224, pl. 20, fig. 6.

Epidromus tenuicostatus (Tenison Woods, 1879).—Tate, 1888: 128, pl. 6, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Cumia leptoskeles* (Tate, 1888) comb. nov.**

Epidromus leptoskeles Tate, 1888: 129, pl. 4, figs 10a, b.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Cumia turruta* (Tate, 1888) comb. nov.**

Epidromus turrutus Tate, 1888: 130, pl. 4, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Cumia citharella* (Tate, 1888) comb. nov.**

Epidromus citharellus Tate, 1888: 129, pl. 4, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Family Prosiphonidae

Austrofusus Kobelt, 1879

***Austrofusus? crassiaulatus* Darragh, 1997**

Austrofusus? crassiaulatus Darragh, 1997: 75, Figs 3I, J, M, N.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Austrofusus selwyni* (Pritchard, 1896) comb. nov.**

Trophon selwyni Pritchard, 1896: 79, pl. 2, fig. 7.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* late Oligocene–early Miocene.

Family Buccinidae

Varicosipho Cossmann, 1901

***Varicosipho labrosus* (Tate, 1888)**

(Type species of the genus OD)

Sipho labrosus Tate, 1888: 144, pl. 3, fig. 7.

Parvisipho (*Varicosipho*) *labrosus* (Tate, 1888).—Cossmann, 1901: 107, pl. 4, fig. 19.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Pseudofax Finlay and Marwick, 1937

***Pseudofax* cf. *P. ordinarius* (Marshall, 1917)**

Pseudofax cf. *P. ordinarius* (Marshall, 1917).—Darragh 1997: 75, Figs 3E, F, K, L.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

Pseudovaricia Tate, 1888

***Pseudovaricia mirabilis* Tate, 1888**

(Type species of genus OD)

Pseudovaricia mirabilis Tate, 1888: 146, pl. 7, figs 9a–c.—Harris, 1897: 160, pl. 6, figs 1a, b; Cossmann, 1901: 188, figs 48, 49; Cossmann, 1906: 230, pl. 9, fig. 14, pl. 11, fig. 16.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

Cominella Gray, 1850

***Cominella lyraecostata* Tenison Woods, 1877**

Cominella lyraecostata Tenison Woods, 1877: 108.

Phos lyraecostatus (Tenison Woods, 1877).—Tate, 1888: 167, pl. 11, fig. 12; Harris, 1897: 164.

Phos lyraecostatus (Tenison Woods, 1877).—Ludbrook, 1967: 68, pl. 2, figs 23, 24.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Cominella cominelloides* (Tate, 1888) comb. nov.**

Phos cominelloides Tate, 1888: 167, pl. 4, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Cominella tuberculata* (Tate, 1888) comb. nov.**

Phos tuberculatus Tate, 1888: 168, pl. 10, fig. 5.

Distribution. Otway Basin: Grange Burn Formation (type). Jemmys Point Formation. *Age:* early Pliocene.

***Cominella gregsoni* (Tate, 1888) comb. nov.**

Phos gregsoni Tate, 1888: 168; Tate, 1889: pl. 4, fig. 5.—Harris, 1897: 165.

Phos gregsoni Tate, 1888.—Ludbrook, 1958: 63, pl. 2, figs 7, 8; Ludbrook, 1973: pl. 28, fig. 97?

Distribution. St Vincent Basin: Dry Creek Sands? Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene–early Pliocene.

***Cominella crassina* Tate, 1888**

Cominella crassina Tate, 1888: 147, pl. 10, fig. 4.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Cominella subfilicea* Tate, 1888**

Cominella subfilicea Tate, 1888: 147, pl. 10, fig. 6.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type).
Age: late Pliocene.

***Cominella clelandi* Tate, 1888**

Cominella clelandi Tate, 1888: 148, pl. 11, fig. 1, pl. 13, fig. 1.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type).
Age: late Pliocene.

***Cominella eburnea* (Reeve, 1846)**

Cominella eburnea (Reeve, 1846).—Ludbrook, 1978: 149, pl. 15, figs 31, 32; Ludbrook, 1983: 46, fig. 3u; Ludbrook, 1984: 234, Fig. 57x.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Otway Basin: Whalers Bluff Formation. Southern and eastern Australia (living). *Age:* late Pliocene–present.

***Cominella lineolata* (Lamarck, 1809)**

Cominella acutinodosa (Reeve, 1846).—Ludbrook, 1978: 148, pl. 15, figs 29, 30.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Zelandiella Finlay, 1926

***Zelandiella?* sp.**

Zelandiella? sp. Darragh and Kendrick, 2010: 37, Figs 5J, K.

Distribution: Southern Carnarvon Basin: Merlinleigh Sandstone. *Age:* late Eocene.

Family Austrosiphonidae

Penion P. Fischer, 1884

***Penion roblini* (Tenison Woods, 1876)**

(Type species of *Austrosiphon* Cossmann, 1906 OD)

Fusus roblini Tenison Woods, 1876: 22, fig. 7.—Johnston, 1888: pl. 29, fig. 8.

Siphonalia roblini (Tenison Woods, 1876).—Tate, 1888: 143.

Siphonalia (Penion) roblini (Tate) [sic].—Cossmann, 1901: 111, pl. 5, fig. 5.

Penion (Austrosiphon) roblini (Tenison Woods, 1876).—Cossmann, 1906: 229.

Penion roblini (Tenison Woods, 1876).—Ponder, 1973: 418, pl. 44, figs 1, 2, Fig. 3.1.

Distribution. Otway Basin: Fishing Point Marl. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. *Age:* early Miocene.

***Penion roblini simulans* (Tate, 1888)**

Fusus simulans Tate, 1888: 137, pl. 10, figs 2a, b.

Siphonalia subreflexa (G. B. Sowerby, 1844).—Tate, 1888: 142.

Penion roblini simulans (Tate, 1888).—Ponder, 1973: 420, pl. 44, figs 7, 8, pl. 45, figs 1, 2, Figs 3.3–5.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Penion longirostris* (Tate, 1888)**

Siphonalia longirostris Tate, 1888: 143, pl. 11, fig. 8.—Harris, 1897: 154.

Penion longirostris (Tate, 1888).—Ponder, 1973: 423, pl. 44, fig. 6, Fig 3.2.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Penion spatiosus* (Tate, 1888)**

Siphonalia spatiosa Tate, 1888: 143, pl. 4, fig. 5.

Fusus henicus Tate, 1889: 116, pl. 6, fig. 11.

Penion spatiosus (Tate, 1888).—Ponder, 1973: 424, pl. 43, fig. 4, pl. 44, figs 3–5, Fig. 3.6.

Distribution. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. *Age:* late Miocene–early Pliocene.

***Penion mandarinus* (Duclos, 1831)**

Penion mandarinus (Duclos, 1831).—Ponder, 1973: 409, pl. 40, fig. 1, pl. 41, figs 1–6, Figs 2.3–4, 3.7, 10.

Distribution. Bass Basin: Cameron Inlet Formation. Eastern and southern Australia (living). *Age:* late Pliocene–present.

***Penion maximus* (Tryon, 1881)**

Penion maximus (Tryon, 1881).—Ponder, 1973: 417, pl. 43, fig. 1, Figs 2.5, 3.8, 11.

Distribution. Bass Basin: Cameron Inlet Formation. Eastern and southeastern Australia (living). *Age:* late Pliocene–present.

Serratifusus Darragh, 1969

***Serratifusus scabrosus* Darragh, 1969**

Serratifusus scabrosus Darragh, 1969: 90, pl. 5, figs 84, 101, 105.

Distribution. Otway Basin: Fishing Point Marl (type). Bass Basin: Freestone Cove Sandstone?, Fossil Bluff Sandstone. *Age:* early Miocene.

***Serratifusus bovarius* Darragh, 1969**

Serratifusus bovarius Darragh, 1969: 91, pl. 2, figs 8, 11–13.

Distribution. Otway Basin: Fishing Point Marl, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* early Miocene.

***Serratifusus craspedotus* (Tate, 1888)**

(Type species of genus OD)

Fusus craspedotus Tate, 1888: 134, pl. 7, fig. 4.

Serratifusus craspedotus (Tate, 1888).—Darragh, 1969: 92, pl. 5, figs 102–104, Fig. 21.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Serratifusus foliaceus* (Tate, 1888)**

Fusus foliaceus Tate, 1888: 132, pl. 7, fig. 10.

Columbarium foliaceum (Tate, 1888).—Harris, 1897: 53; Cossmann, 1901: 15, pl. 1, fig. 8.

Serratifusus foliaceus (Tate, 1888).—Darragh, 1969: 94, pl. 5, figs 85, 92, 98.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Serratifusus clydoniatus* Darragh, 1969**

Serratifusus clydoniatus Darragh, 1969: 95, pl. 5, figs 79, 87, 90, 99.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Serratifusus archimedes* Darragh, 1969**

Serratifusus archimedes Darragh, 1969: 96, pl. 5, figs 94–97.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Serratifusus stellatus* Darragh, 1969**

Serratifusus stellatus Darragh, 1969: 97, pl. 5, figs 82, 86, 93.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Serratifusus squamulatus* Darragh, 1969**

Serratifusus squamulatus Darragh, 1969: 98, pl. 5, figs 80, 81, 83, 91.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Serratifusus? youngi* (Chapman, 1922)**

Fusinus youngi Chapman, 1922: 14, pl. 3, fig. 20.

Serratifusus? youngi (Chapman, 1922).—Darragh, 1969: 92, pl. 5, figs 88, 89, fig. 24.

Distribution. Otway Basin: Myaring beds, Fishing Point Marl. Port Phillip Basin: Gellibrand Formation (type). *Age:* early Miocene.

Family Tudicidae

Tasmeuthria Iredale, 1925

***Tasmeuthria? arenicola* Darragh, 2017**

Tasmeuthria? arenicola Darragh, 2017: 70, Figs 5.19–22.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Tasmeuthria semiundulata* (Pritchard, 1896) comb. nov.**

Peristernia semiundulata Pritchard, 1896: 89, pl. 2, figs 10, 11.

Peristernia murrayana var. *costata* Pritchard, 1896: 87, pl. 2, fig. 4.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Family Echinofulguridae

Levifusus Conrad, 1865

***Levifusus? quadrifunifer* Darragh, 1997**

Levifusus? quadrifunifer Darragh, 1997: 76, Figs 3S–U.—Stilwell, 2005: 338, Fig. 2R?

Distribution. Perth Basin: Kings Park Formation? Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Nomen dubium

Buccinum fragile Tenison Woods, 1877: 107 non Studer, 1789. The type specimen is missing and the name is preoccupied.

Finlay, 1930 erected the genus *Atkinsonella* for this species. This name is also preoccupied by Jordan, 1920 for a fossil fish.

Family Melongenidae

Melongena Schuhmacher, 1817

***Melongena* sp.**

Melongena sp. A McNamara and Kendrick, 1984: 38, Fig. 14A, B.

Distribution. Carnarvon Basin: Poivre Formation. *Age:* middle Miocene.

Pugilina Schuhmacher, 1817

***Pugilina?* sp.**

Pugilina? sp. Darragh, 2017: 73, Figs 6.23–24.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Family Nassariidae

Tritia Risso, 1826

***Tritia tatei* (Tenison Woods, 1879) comb. nov.**

Nassa tatei Tenison Woods, 1879a: 230, pl. 21, fig. 13.—Tenison Woods, 1879b: pl. 2, fig. 2; Harris, 1897: 169, pl. 6, fig. 4a, b.

Nassa (Hima) tatei (Tenison Woods, 1879).—Tate, 1888: 170, pl. 12, fig. 9.

Nassarius (Hima) tatei (Tenison Woods, 1879).—Cernohorsky, 1981: 175, Figs 68–70.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Tritia spiraliscabra* (Chapman and Gabriel, 1914) comb. nov.**

Nassa spiraliscabra Chapman and Gabriel, 1914: 325, pl. 28, fig. 34.—Chapman, 1916: pl. 71, fig. 34.

Hinia (Reticunassa) spiraliscabra (Chapman and Gabriel, 1914).—Ludbrook, 1958: 65, pl. 3, fig. 2.

Hinia (Reticunassa) subcopiosa Ludbrook, 1958: 64, pl. 3, fig. 1.—Ludbrook, 1978: 150, pl. 17, figs 1, 2.

Nassarius (Zeuxis) subcopiosus (Ludbrook, 1958).—Cernohorsky, 1981: 170, Figs 59, 60.

Nassarius (Zeuxis) spiraliscabrus (Chapman and Gabriel, 1914).—Cernohorsky, 1981: 172, Figs 61, 62.

Distribution. Perth Basin: Ascot Beds. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene, late Pliocene?

***Tritia wilsoni* (Ludbrook, 1978) comb. nov.**

Amyclina wilsoni Ludbrook, 1978: 150, pl. 17, figs 3, 4.

Nassarius (Gussonea) wilsoni (Ludbrook, 1978).—Cernohorsky, 1981: 174, Figs 66, 67.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Nassarius Duméril, 1805

***Nassarius crassigranosa* (Tate, 1888)**

Nassa (*Phrontis*) *crassigranosa* Tate, 1888: 170, pl. 12, figs 6a, b.

Nassa crassigranosa Tate, 1888.—Harris, 1897: 168.

Nassarius (*Niotha*) *crassigranosa* (Tate, 1888).—Cernohorsky, 1981: 162, Figs 42–44.

Distribution. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. Age: late Miocene–early Pliocene.

***Nassarius sublirellus* (Tate, 1888)**

Nasa [sic] (*Niotha*) *sublirella* Tate, 1888: 171.—Tate, 1889: pl. 4, fig. 2.

Nassarius (*Niotha*) *sublirellus* (Tate, 1888).—Cernohorsky, 1981: 161, Fig. 40.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Nassarius pyrrhus* (Menke, 1843)**

Niotha pyrrhus (Menke, 1843).—Ludbrook, 1978: 151; Ludbrook, 1983: 46, Fig. 3r.

Nassarius (*Zeuxis*) *pyrrhus* (Menke, 1843).—Cernohorsky, 1981: 167, Figs 54–58.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Gippsland Basin: Jemmys Point Formation. Southern Australia (living). Age: early Pliocene–present.

***Nassarius nuttalli* (Ludbrook, 1978)**

Tavaniotha nigella nuttalli Ludbrook, 1978: 152, pl. 20, figs 33, 34.

Nassarius (*Niotha*) *nuttalli* (Ludbrook, 1978).—Cernohorsky, 1981: 163, Figs 45–47.

Distribution. Perth Basin: “younger” Ascot Formation. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene–early Pleistocene.

***Nassarius* sp.**

Nassarius (*Niotha*) sp. Cernohorsky, 1981: 164, Figs 48, 49.

Distribution. Perth Basin: Ascot Formation. Age: early Pleistocene.

Nassaria Link, 1807

***Nassaria?* sp.**

Nassaria? sp. Stilwell, 2003: 260, Figs 5O, P.

Distribution. Otway Basin: Dilwyn Formation. Age: early Eocene.

***Nassaria tardicrescens* (Tate, 1888) comb. nov.**

Phos tardicrescens Tate, 1888: 167, pl. 10, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Reticunassa Iredale, 1936

***Reticunassa pertusa* (Tate, 1888) comb. nov.**

Cominella(?) *pertusa* Tate, 1888: 147, pl. 9, fig. 11.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

Cyllene Gray, 1934

***Cyllene pumila* (Tate, 1888) comb. nov.**

Cominella pumila Tate, 1888: 148, pl. 4, fig. 12.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

Family Pisaniidae

Cantharus Röding, 1798

***Cantharus purpuroides* (Johnston, 1880) comb. nov.**

Ricinula purpuroides Johnston, 1880: 33.

Pisania purpuroides (Johnston, 1880).—Tate, 1888: 165, pl. 11, fig. 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Cantharus brevicaudatus* (Tate, 1888) comb. nov.**

Trophon brevicaudatus Tate, 1888: 110, pl. 9, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Cantharus obliquecostatus* (Tate, 1888) comb. nov.**

Pisania obliquecostata Tate, 1888: 165, pl. 9, fig. 7.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Cantharus brevis* (Tate, 1888) comb. nov.**

Pisania brevis Tate, 1888: 166, pl. 9, fig. 8.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Family Fasciolariidae

Dennantia Tate, 1888

***Dennantia aldingensis* (Tate, 1888)**

Peristernia aldingensis Tate, 1888: 156, pl. 8, figs 8a, b.

Brochitas aldingensis (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 33.

Dennantia aldingensis (Tate, 1888).—Darragh and Kendrick, 2008: 238, Figs 2.9–10; Darragh, 2017: 72, Figs 6.21–22, 28–31.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Brown Creek Formation. Age: late Eocene.

***Dennantia tatei* (Harris, 1897) comb. nov.**

Latirus tatei Harris, 1897: 147, pl. 5, figs 7a–d.

Distribution. Port Phillip Basin: Jan Juc Formation. Age: late Oligocene.

***Dennantia makros* (Chapple, 1941) comb. nov.**

Trophon (*Enatimene*) *makros* Chapple, 1941: 122, pl. 14, fig. 6.

Trophon (*Enatimene*) *crassiliratus* Chapple, 1941: 123, pl. 14, fig. 7.

Distribution. Otway Basin: Gellibrand Formation (type). Age: early Miocene.

***Dennantia cingulata* Tate, 1888**

Dennantia cingulata Tate, 1888: 162, pl. 12, figs 2, 5a, b.—Harris, 1897: 163, pl. 6, figs 2a, b; Vermeij, 2001: 495, Figs 1A–C.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Dennantia ino* (Tenison Woods, 1879)**

(Type species of the genus OD)

Fusus ino Tenison Woods, 1879b: 13, pl. 3, fig. 10.

Dennantia ino (Tenison Woods, 1879).—Tate, 1888: 161, pl. 12, figs 1a–c, 3.

Euthria (*Dennantia*) *ino* (Tenison Woods, 1879).—Cossmann, 1901: 120, pl. 6, figs 6, 7, Fig.34.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Dennantia lintea* (Tate, 1888) comb. nov.**

(Type species of *Streptopelma* Cossmann, 1901 OD)

Peristernia lintea Tate, 1888: 157, pl. 8, fig. 11.

Streptosiphon (*Streptopelma*) *linteum* (Tate, 1888).—Cossmann, 1901: 74, pl. 3, fig. 14, fig. 23.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Dennantia micronema* (Tate, 1888) comb. nov.**

Leucozonia micronema Tate, 1888: 162, pl. 9, fig. 12.

Leucozonia staminea Tate, 1888: 163, pl. 9, fig. 13.

Leucozonia tumida Tate, 1888: 163, pl. 13, fig. 2.

Leucozonia (*Latirolagena*) *staminea* Tate, 1888.—Harris, 1897: 151, pl. 5, figs 8a, b?

Lathyrus (*Mazzalina*) *stamineus* (Tate, 1888).—Cossmann, 1901: 51, pl. 2, fig. 17, fig. 16.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation? Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Dennantia murrayana* (Tate, 1888) comb. nov.**

Peristernia murrayana Tate, 1888: 155; Tate, 1889: pl. 4, fig. 4.

Lathyrus murrayanus (Tate, 1888).—Harris, 1897: 144, pl. 5, figs 6a, b.

Distribution. Murray Basin: Cadell Marl (type).

Age: middle Miocene.

***Dennantia crebrigranosa* (Tate, 1888) comb. nov.**

Sipho crebrigranosus Tate, 1888: 145, pl. 3, fig. 8.

Tritonofusus crebrigranosus Tate, 1888.—Harris, 1897: 153, pl. 5, figs 9a, b.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Dennantia subundulosa* (Tate, 1888) comb. nov.**

Peristernia subundulosa Tate, 1888: 159, pl. 8, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Dennantia interlineata* (Tate, 1888) comb. nov.**

Peristernia interlineata Tate, 1888: 159, pl. 6, fig. 1.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Dennantia succincta* (Tenison Woods, 1879) comb. nov.**

Trophon succinctus Tenison Woods, 1879b: 16, pl. 4, figs 6, 6a.

Peristernia succincta (Tenison Woods, 1879).—Tate, 1888: 158.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Dennantia rostrata* (Tate, 1888) comb. nov.**

Pisania rostrata Tate, 1888: 164, pl. 10, fig. 10.

Pisania semicostata Tate, 1888: 164, pl. 4, fig. 9.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Brocchitas Finlay, 1929

***Brocchitas?* sp.**

Brocchitas? sp. Darragh and Kendrick, 2008: 238, Fig. 3.11.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Brocchitas exilis* (Tate, 1888)**

(Type species of the genus OD)

Fasciolaria exilis Tate, 1888: 149, pl. 10, fig. 3.

Streptochetus adelomorphus Cossmann, 1901: 31 footnote, invalid name change.

Brocchitas exilis (Tate, 1888).—Finlay, 1927: 505.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Gellibrand Formation. Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Australaria Snyder, Vermeij and Lyons, 2012

***Australaria morundiana* (Tate, 1888) comb. nov.**

Peristernia morundiana Tate, 1888: 154, pl. 8, fig. 7.—Ludbrook, 1961b: pl. 7, fig. 7; Ludbrook, 1973: pl. 26, fig. 68?

Peristernia altifrons Tate, 1888: 156, pl. 10, fig. 1.

Distribution. St Vincent Basin: Melton Limestone? Murray Basin: Cadell Marl (type). Age: early?–middle Miocene.

***Australaria lamellifera* (Tate, 1888) comb. nov.**

Siphonalia lamellifera Tate, 1888: 142, pl. 8, fig. 5.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Australaria concinna* (Tate, 1888) comb. nov.**

Fasciolaria concinna Tate, 1888: 149, pl. 8, fig. 6.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Australaria fusilla* (Tate, 1889) comb. nov.**

Fasciolaria fusilla Tate, 1889: 116, pl. 6, fig. 12.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Australaria cristata* (Tate, 1888) comb. nov.**

Fasciolaria cristata Tate, 1888: 151, pl. 8, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Australaria rugata* (Tate, 1888) comb. nov.**

Fasciolaria rugata Tate, 1888: 152, pl. 8, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Australaria cryptoploca* (Tate, 1888) comb. nov.**

Fasciolaria cryptoploca Tate, 1888: 151, pl. 8, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Australaria australasia* (Perry, 1811)**

Pleuroploca australasia (Perry, 1811).—Ludbrook, 1978: 153, pl. 17, fig. 9.

Distribution. Eucla Basin: Roe Calcarene. Southern and eastern Australia (living). *Age:* late Pliocene–present.

Pleia Finlay, 1930

***Pleia tenisoni* (Tenison Woods, 1879)**

Fasciolaria tenisoni Tenison Woods, 1879b: 13, pl. 3, fig. 3.—Tate, 1888: 148.

Fasciolaria decipiens Tate, 1888: 150, pl. 8, fig. 1 (type species of *Pleia* Finlay, 1930 OD).

Pleia tenisoni (Tenison Woods, 1879).—Beu, 2011: 67, Figs 11E, H; Snyder et al., 2012: 56, Fig. 20.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation. Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Eofusus Vermeij and Snyder, 2018

***Eofusus* sp.**

Fusinus sp. Darragh, 1997: 77, figs 4T, U.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Eofusus sculptilis* (Tate, 1888) comb. nov.**

Fusus sculptilis Tate, 1888: 137, pl. 10, fig. 13.

Fusinus sculptilis (Tate, 1888).—Darragh, 2017: 71, Figs 12–14.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

Propefusus Iredale, 1924

***Propefusus meredithiae* (Tenison Woods, 1876)**

Fusus gracillimus Tenison Woods, 1876: 22 non A. Adams and Reeve, 1848.

Fusus meredithiae Tenison Woods, 1876: fig. 6.

Fusus meredithiae [sic] Tenison Woods, 1876.—Tate, 1888: 140; Johnston, 1888: pl. 31, fig. 9.

Fusus johnstonii Tenison Woods, 1877: 94.

Fusus johnstoni [sic] Tenison Woods, 1877.—Tate, 1888: 136, pl. 12, figs 4a, b; Johnston, 1888: pl. 29, fig. 9.

Fusus johnstoni? [sic] Tenison Woods, 1877.—Johnston, 1888: pl. 31, figs 7, 8, 10, 17.

Latirus (Broccitas) johnstoni [sic] (Tenison Woods, 1877).—Ludbrook, 1967: 68, pl. 4, figs 5, 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

Remarks. Tenison Woods did not publish a description of *Fusus meredithiae* merely figuring it in the same paper that he described *F. gracillimus*. Type specimens for neither survive. Tate (1888) pointed out that *F. gracillimus* was preoccupied and assumed that *F. meredithiae* was a replacement for it.

***Propefusus trivialis* (Tate, 1899) comb. nov.**

Fusus trivialis Tate, 1899a: 107, pl. 1, fig. 4.

Distribution. Murray Basin: Bookpurnong Formation (type).
Age: middle Miocene.

***Propefusus dumetosus* (Tate, 1888) comb. nov.**

Fusus dumetosus Tate, 1888: 141, pl. 9, fig. 1.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Propefusus novaehollandiae* (Reeve, 1848) comb. nov.**

Fusus gippslandicus Tate, 1888: 140.—Tate, 1889, pl. 3, fig. 6.

Fusinus novaehollandiae (Reeve, 1848).—Ludbrook, 1978: 154, pl. 17, fig. 11.

Distribution. Eucla Basin: Roe Calcarene. Gippsland Basin: Jemmys Point Formation. Southern and eastern Australia (living). *Age:* early Pliocene–present.

***Propefusus australis* (Quoy and Gaimard, 1833)**

Fusinus australis (Quoy and Gaimard, 1833).—Ludbrook, 1978: 154, pl. 17, figs 7, 8.

Distribution. Eucla Basin: Roe Calcarene. Southern Australia (living). *Age:* late Pliocene–present.

***Propefusus pulleinei* (Verco, 1895)**

Propefusus pulleinei (Verco, 1895).—Ludbrook, 1978: 155, pl. 17, fig. 10.

Distribution. Eucla Basin: Roe Calcarene. Southern Australia (living). *Age:* late Pliocene–present.

Austrolithes Finlay, 1931

***Austrolithes incompositus* (Tate, 1888)**

Fusus incompositus Tate, 1888: 137, pl. 3, fig. 9.

Austrolithes incompositus (Tate, 1888).—Darragh, 2017: 71, Fig. 5.11.

cf *Austrolithes incompositus* (Tate, 1888).—Darragh, 2017: 71, Figs 5.3–4.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. **Age:** late Eocene.

***Austrolithes tateanus* (Tenison Woods, 1877) comb. nov.**

Fusus tateana Tenison Woods, 1877: 94.—Johnston, 1888: pl. 29, fig. 6.

Fusus tateanus Tenison Woods, 1877.—Tate, 1888: 141, pl. 13, fig. 5.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

***Austrolithes bulbodes* (Tate, 1888)**

(Type species of the genus OD)

Fusus bulbodes Tate, 1888: 139, pl. 7, fig. 8.

Clavella bulbodes (Tate, 1888).—Pritchard, 1904: 320, pl. 18, figs 2, 3.

Distribution. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

***Austrolithes platystrophus* (Pritchard, 1904) comb. nov.**

Clavella platystropha Pritchard, 1904: 322, pl. 18, figs 4, 5.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Microcolus Cotton and Godfrey, 1932

***Microcolus apiciliratus* (Tate, 1888)**

Peristernia apicilirata Tate, 1888: 157, pl. 9, fig. 14.

Fusinus (Microcolus) apiciliratus (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 44.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. **Age:** late Eocene.

***Microcolus actinostephes* (Tate, 1888)**

Peristernia actinostephes Tate, 1888: 158, pl. 9, fig. 10.

Fusinus (Microcolus) actinostephes (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 37.

Distribution. St Vincent Basin: Blanche Point Formation (type). **Age:** late Eocene.

***Microcolus transennus* (Tenison Wood, 1877)**

Fusus transenna Tenison Woods, 1877: 94.

Peristernia transenna (Tenison Woods, 1877).—Tate, 1888: 157, pl. 11, fig. 10.

Fusinus (Microcolus) transenna (Tenison Woods, 1877).—Ludbrook, 1967: 68, pl. 2, figs 33–44.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

***Microcolus affinis* (Tate, 1888) comb. nov.**

Peristernia affinis Tate, 1888: 157, pl. 11, fig. 7.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

***Microcolus dunkeri* (Jonas, 1846)**

Microcolus dunkeri (Jonas, 1846).—Ludbrook, 1978: 155, pl. 20, figs 29, 30.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). **Age:** late Pliocene–present.

Lepidocolus P. A. Maxwell, 1992

***Lepidocolus dictyotis* (Tate, 1888) comb. nov.**

Fusus dictyotis Tate, 1888: 135, pl. 7, figs 2, 6.—Harris, 1897: 132.

Fusinus (Fusinus) dictyotis (Tate, 1888).—Ludbrook, 1958: 66.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

Solutofusus Pritchard, 1898

***Solutofusus curlewisensis* Chapman, 1922**

Solutofusus curlewisensis Chapman, 1922: 14, pl. 3, fig. 21.

Distribution. Port Phillip Basin: Gellibrand Formation (type). **Age:** early Miocene.

***Solutofusus styliformis* (Tenison Woods, 1879) comb. nov.**

Fusus styliformis Tenison Woods, 1879b: 12, pl. 3, fig. 6.

Sipho styliformis (Tenison Woods, 1879).—Tate, 1888: 145.

Fusus hexagonalis Tate, 1888: 139, pl. 3, figs 15a, b.—Harris, 1897: 131, pl. 5, figs 5a, b; Cossmann, 1901: 12, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

***Solutofusus carinatus* Pritchard, 1898**

(Type species of the genus OD)

Solutofusus carinatus Pritchard, 1898: 102, pl. 7, figs 1, 1a, 2.—Cossmann, 1903: 191, fig. 15.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

Ollaphon Iredale, 1929

***Ollaphon? asperulus* (Tate, 1888) comb. nov.**

Sipho asperulus Tate, 1888: 145, pl. 6, fig. 5.

Siphonalia tatei Cossmann.—Harris, 1897: 155; Cossmann, 1898: 16 nom. nov. for *Sipho asperulus* Tate, 1888 non Deshayes, invalid name change.

Distribution. Otway Basin: Gellibrand Formation. Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene

Tectifusus Tate, 1893

***Tectifusus aldingensis* (Tate, 1888)**

Fusus aldingensis Tate, 1888: 138, pl. 3, fig. 10.

Fusus tholoides Tate, 1888: 138, pl. 3, fig. 11 [type species of *Tectifusus* Tate, 1893 OD].

Fusus (Tectifusus) tholoides Tate, 1888.—Cossmann, 1901: 13, pl. 1, fig. 11, fig. 4.

Tectifusus tholoides (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 54.

Tectifusus aldingensis (Tate, 1888).—Darragh, 2017: 72, Figs 6.9–13.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Brown Creek Formation. Age: late Eocene.

Microfulgur Finlay and Marwick, 1937

***Microfulgur?* sp.**

Microfulgur? sp. Darragh, 1997: 78, Figs 4J, K.

Distribution. Otway Basin. Pebble Point Formation. Age: late Paleocene.

Nomen dubium

Fusus vitreoides Johnston, 1880: 32.

Distribution. Bass Basin: Freestone Cove Sandstone or Fossil Bluff Sandstone. Age: early Miocene.

Remarks. Tate, 1888: 132 stated that this species was represented by a “rolled imperfect shell offering no distinctive characters, and had better be expunged; the generic position is very doubtful.”

Superfamily Olivoidea

Family Pseudolividae

Sulcobuccinum d’Orbigny, 1850

***Sulcobuccinum* sp.**

Pseudoliva (Buccinorbis) sp. Darragh, 1997: 81, Figs 4G–I.

Distribution. Otway Basin: Pebble Point Formation. Age: late Paleocene.

Zemira H. and A. Adams, 1853

***Zemira* sp.**

Zemira sp. Ponder and Darragh, 1975: 97, pl. 8, figs 10, 11.

Distribution. Otway Basin: Glen Aire Clay. Age: early Oligocene.

***Zemira tessellata* (Tate, 1894)**

Eburnopsis tessellatus Tate, 1894: 174, pl. 11, fig. 10.

Pseudoliva (Eburnopsis) tessellata (Tate, 1894).—Cossmann, 1906: 230, pl. 14, fig. 5.

Zemira tessellata (Tate, 1894).—Ponder and Darragh, 1975: 99, pl. 8, figs 1–5.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Zemira antecursoria* Ponder and Darragh, 1975**

Zemira australis antecursoria Ponder and Darragh, 1975: 100, pl. 7, figs 6, 7, pl. 8, figs 6–9.

Distribution. Otway Basin: Puebla Formation, Fishing Point Marl, Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. Age: early Miocene.

***Zemira australis* (G. B. Sowerby I, 1833)**

Zemira praecursoria Tate, 1888: 163, pl. 11, fig. 5.

Eburnopsis aulacoessa Tate, 1889: 117, pl. 4, fig. 3 [type species of *Eburnopsis* Tate, 1889 OD].

Zemira australis (G. B. Sowerby I, 1833).—Ponder and Darragh, 1975: 101, pl. 7, figs 1, 2, pl. 8, figs 12–24.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation, Grange Burn Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Rosehill Marl, Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Southeastern and eastern Australia (living). Age: middle Miocene–present.

***Zemira? intermedia* Ludbrook, 1978**

Zemira (Eburnopsis) intermedia Ludbrook, 1978: 157: pl. 17, figs 19, 20.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

Family Bellolividae

Belloliva Peile, 1922

***Belloliva* cf. *B. adalaidae* (Tate, 1889)**

Gemmoliva sp. cf. *G. adalaidae* (Tate, 1889).—Darragh and Kendrick, 2008: 240, Fig. 3.3.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Belloliva canaliculata* Darragh, 2017**

Belloliva canaliculata Darragh, 2017: 88, Figs 8.24–26.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Belloliva adalaidae* (Tate, 1888) comb. nov.**

Oliva adalaidae Tate, 1889: 145, pl. 8, fig. 6.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

Family Ancillariidae

Alocospira Cossmann, 1899

***Alocospira papillata* (Tate, 1889)**

(Type species of the genus OD)

Ancillaria papillata Tate, 1889: 146, pl. 7, fig. 4.

Ancilla (Alocospira) papillata (Tate, 1889).—Cossmann, 1899: 62, pl. 3, figs 8, 9.

Ancilla papillata (Tate, 1889).—Marwick, 1924a: 322, pl. 5, fig. 8.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Alocospira orycta* (Tate, 1889) comb. nov.**

Ancillaria orycta Tate, 1889: 146, pl. 10, fig. 5.

Distribution. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Rosehill Marl, Jemmys Point Formation (type). *Age:* late Miocene–early Pliocene.

Amalda H. and A. Adams, 1853

***Amalda subgradata* (Tate, 1889) comb. nov.**

Ancillaria subgradata Tate, 1889: 146, pl. 7, fig. 8.

Ancilla subgradata (Tate, 1889).—Marwick, 1924a: 322, pl. 5, fig. 2.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Amalda subampliata* (Tate, 1889) comb. nov.**

Ancillaria subampliata Tate, 1889: 147, pl. 7, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Amalda adelaidensis* (Ludbrook, 1958) comb. nov.**

Ancilla (Turrancilla) adelaidensis Ludbrook, 1958: 68, pl. 3, fig. 9.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Amalda monilifera* (Reeve, 1864)**

Amalda (Gracilispira) monilifera (Reeve, 1864).—Ludbrook, 1978: 156, pl. 17, figs 5, 6; Ludbrook, 1983: 46, Fig. 3v; Ludbrook, 1984: 236, Fig. 57y.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Southern Australia (living). *Age:* late Pliocene–present.

Baryspira P. Fischer, 1883

***Baryspira tatei* (Marwick, 1924)**

Ancillaria mucronata Sowerby.—Johnston, 1888: pl. 31, fig. 12 non Sowerby, 1830.

Ancillaria hebera Hutton.—Tate, 1889: 147, pl. 7, fig. 5 non Hutton, 1873.

Ancilla tatei Marwick, 1924a: 319, pl. 5, fig. 3.

Ancilla (Baryspira) tatei Marwick, 1924.—Ludbrook, 1958: 67, pl. 3, fig. 4.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* early–middle Miocene.

***Baryspira lanceolata* Tate, 1889 comb. nov.**

Ancillaria lanceolata Tate, 1889: 147, pl. 7, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Baryspira pseudaustralis* (Tate, 1889) comb. nov.**

Ancillaria pseudaustralis Tate, 1889: 148, pl. 7, fig. 1.

Distribution. Murray Basin; Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). *Age:* middle Miocene.

Gracilispira Olsson, 1956

***Gracilispira ligata* (Tate, 1889)**

Ancillaria ligata Tate, 1889: 147, pl. 7, fig. 6.

Baryspira (Gracilispira) ligata (Tate, 1889).—Ludbrook, 1973: pl. 25, figs 55, 56.

Amalda (Gracilispira) ligata (Tate, 1889).—Darragh, 2017: 87, Figs 8.3–4, 8.22–23, 8.27, 8.31–32.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* early Miocene.

***Gracilispira* sp. cf. *G. ligata* (Tate, 1889)**

Gracilispira sp. cf. *G. ligata* (Tate, 1889).—Darragh and Kendrick, 2008: 240, Fig. 3.12.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Gracilispira semilaevis* (Tenison Woods, 1879) comb. nov.**

Ancillaria semilaevis Tenison Woods, 1879a: 229, pl. 20, fig. 7.—Tate, 1889: 148.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Family Olividae

Lamprodomina Marwick, 1931

***Lamprodomina praenominata* (Cossmann, 1912)**

Oliva angustata Tate, 1889: 144, pl. 8, figs 7a, b non Marrat, 1870.

Lamprodoma angustata (Tate, 1889).—Cossmann, 1899: 57, fig. 8.

Oliva praenominata Cossmann, 1912a: 215 nom. nov. for *Oliva angustata* Tate, 1889 non Marrat, 1870.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Cupidoliva Iredale, 1924

***Cupidoliva nymphalis* (Tate, 1889)**

Oliva nymphalis Tate, 1889: 145, pl. 7, fig. 7.

Olivella (Cupidoliva) nymphalis (Tate, 1889).—Ludbrook, 1958: 67, pl. 3, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation (type). *Age:* middle Miocene–early Pliocene.

Superfamily Mitroidea

Family Mitridae

Mitra Lamarck, 1798

***Mitra? rhytidata* Darragh, 1997**

Mitra? rhytidata Darragh, 1997: 78, Figs 4N–S, V.—Stilwell, 2003: 260, Figs 5U, V, Y, AA, DD.

Distribution. Otway Basin: Pebble Point Formation (type), Dilwyn Formation. *Age:* late Paleocene–early Eocene.

***Mitra multisulcata* Harris, 1897**

Mitra multisulcata Harris, 1897: 120, pl. 5, figs 1a–d.

Mitra (Mitra) multisulcata Harris, 1897.—Cernohorsky, 1976: 347, pl. 301, figs 1, 2.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Eumitra Tate, 1889

***Eumitra alokiza* (Tenison Woods, 1879)**

(Type species of the genus SD)

Mitra alokiza Tenison Woods, 1879b: 9, pl. 2, fig. 12

Mitra (Eumitra) alokiza Tenison Woods, 1879.—Tate, 1889: 136, pl. 4, fig. 8; Cernohorsky, 1976: 391, pl. 330, fig. 1.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Eumitra dictua* (Tenison Woods, 1879)**

Mitra dictua Tenison Woods, 1879b: 8, pl. 3, fig. 7.

Mitra (Eumitra) dictua Tenison Woods, 1879.—Tate, 1889: 137 (in part); Cernohorsky, 1970: 36, pl. 3, figs 1, 2; Cernohorsky, 1976: 392.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Eumitra diductua* (Tate, 1899)**

Mitra (Eumitra) dictua Tenison Woods, 1879.—Tate, 1889: 137 (in part), pl. 4, fig. 9.

Mitra diductua Tate, 1899a: 107.

Mitra fodinalis Tate, 1899a: 108.

Mitraria (Eumitra) diductua (Tate, 1899).—Ludbrook, 1958, pl. 4, figs 3, 6.

Mitra (Eumitra) diductua (Tate, 1899).—Cernohorsky, 1970: 36, pl. 3, fig. 3; Cernohorsky, 1976: 392, pl. 330, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene.

***Eumitra uniplica* (Tate, 1889)**

Mitra (Eumitra) uniplica Tate, 1889: 138, pl. 4, fig. 12.—Cernohorsky, 1976: 392, pl. 330, fig. 3.

Mitra monoploca Finlay, 1927: 509 nom. nov. for *Mitra (Eumitra) uniplica* Tate, 1889, invalid name change.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Eumitra coxi* (Ludbrook, 1958)**

Mitraria (Eumitra) coxi Ludbrook, 1958: 71, pl. 6, fig. 4.

Mitra (Mitra) coxi (Ludbrook, 1958).—Cernohorsky, 1976: 349, pl. 302, fig. 5.

Mitra (Eumitra) coxi (Ludbrook, 1958).—Ludbrook, 1978: 160.

Distribution: Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). *Age:* middle Miocene? early Pliocene–late Pliocene.

Isara H. and A. Adams, 1853

***Isara glabra* (Swainson, 1821)**

Mitra (Eumitra) glabra Swainson, 1821.—Ludbrook, 1978: 161, pl. 18, fig. 3.

Distribution. Eucla Basin: Roe Calcarenite. Southern and southeastern Australia (living). *Age:* late Pliocene–present.

Dibaphimitra Cernohorsky, 1970

***Dibaphimitra dennanti* (Tate, 1889)**

Mitra (Eumitra) dennanti Tate, 1889: 137, pl. 3, fig. 3.

Conomitra dennanti (Tate, 1889).—Harris, 1897: 130, pl. 5, figs 4a, b.

Mitra (Dibaphimitra) dennanti Tate, 1889.—Cernohorsky, 1970: 70, pl. 3, fig. 7; Cernohorsky, 1976: 475, pl. 427, fig. 1.

Distribution. Otway Basin: Muddy Creek Formation (type). Middle Miocene.

Superfamily unassigned

Family Harpidae

Eocithara P. Fischer, 1883

***Eocithara lamellifera* (Tate, 1889)**

Harpa lamellifera Tate, 1889: 149, pl. 6, fig. 2 (type species of *Refluharpa* Iredale, 1931 OD).

Harpa (Eocithara) lamellifera Tate, 1889.—Harris, 1897: 79, pl. 4, figs 3a, b.

Eocithara lamellifera (Tate, 1889).—Cotton and Woods, 1933, fig. 1.

Eocithara (Refluharpa) lamellifera Tate, 1889.—Rehder, 1973: 235, pls 206, 207; Merle and Pacaud, 2003, 64, Fig. 2A.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Austroharpa Finlay, 1931

***Austroharpa pachycheila* (Tate, 1894)**

Harpa pachycheila Tate, 1894: 173, pl. 11, fig. 5.

Austroharpa pachycheila (Tate, 1894).—Cotton and Woods, 1933: fig. 6.

Austroharpa (Palamharpa) pachycheila (Tate, 1894).—Rehder, 1973: 271, pl. 246.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Austroharpa clathrata* (Tate, 1889)**

Harpa clathrata Tate, 1889: 151, pl. 6, fig. 8.

Austroharpa clathrata (Tate, 1889).—Cotton and Woods, 1933: fig. 5.

Austroharpa clathrata (Tate, 1889).—Ludbrook, 1973: pl. 26, fig. 72.

Austroharpa (Palamharpa) clathrata (Tate, 1889).—Rehder, 1973: 271, pl. 245.

Distribution. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Austroharpa pulligera* (Tate, 1889)**

(Type species of the genus OD)

Harpa pulligera Tate, 1889: 151, pl. 6, fig. 9.

Harpa abbreviata Tate, 1889: 150, pl. 6, fig. 7.

Harpa tenuis Tate, 1889: 151, pl. 6, fig. 1.

Harpa (Eocithara) tenuis Tate, 1889.—Harris, 1897: 80, pl. 4, figs 4a, b.

Harpa (Eocithara) abbreviata Tate, 1889.—Harris, 1897: 81, pl. 4, figs 5a, b.

Austroharpa abbreviata (Tate, 1889).—Cotton and Woods, 1933: fig. 7.

Austroharpa pulligera (Tate, 1889).—Cotton and Woods, 1933: fig. 8.

Austroharpa tenuis (Tate, 1889).—Cotton and Woods, 1933: fig. 9; Merle and Pacaud, 2003: Fig. 1G.

Austroharpa (Austroharpa) pulligera (Tate, 1889).—Rehder, 1973: 261, pls 231, 232.

Austroharpa (Palamharpa) abbreviata (Tate, 1889).—Rehder, 1973: 270, pl. 244.

Austroharpa (Palamharpa) tenuis (Tate, 1889).—Rehder, 1973: 270, pl. 242, 243.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Austroharpa sulcosa* (Tate, 1889)**

Harpa sulcosa Tate, 1889: 150, pl. 6, fig. 10.

Harpa spirata Tate, 1889: 150, pl. 6, fig. 3 (type species of *Trameharpa* Iredale, 1931 OD, unavailable name, no description).

Eocithara tenuis (Tate, 1889).—Cossmann, 1899: 76, fig. 11.

Austroharpa tatei Finlay, 1931: 14

Austroharpa sulcosa (Tate, 1889).—Cotton and Woods, 1933: fig. 2; Cernohorsky, 1977: 128, Figs 19, 20; Merle and Pacaud, 2003, Fig. 3A.

Austroharpa spirata (Tate, 1889).—Cotton and Woods, 1933: fig. 3; Merle and Pacaud, 2003, Fig. 2D.

Harpa (Austroharpa) tatei (Finlay, 1931).—Ludbrook, 1958: 73, pl. 4, fig. 5.

Austroharpa (Palamharpa) sulcosa (Tate, 1889).—Rehder, 1973: 269, pl. 230, fig. 3, pl. 239.

Austroharpa (Palamharpa) spirata (Tate, 1889).—Rehder, 1973: 269, pl. 241.

Austroharpa (Palamharpa) tatei Finlay, 1931.—Rehder, 1973: 269, pl. 240.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Austroharpa cassinoides* (Tate, 1889)**

Harpa cassinoides Tate, 1889: 150, pl. 6, fig. 4.

Austroharpa cassinoides (Tate, 1889).—Cotton and Woods, 1933, fig. 4; Ludbrook, 1973: pl. 27, fig. 86, pl. 28, figs 95, 96.

Harpa (Austroharpa) cassinoides (Tate, 1889).—Ludbrook, 1958: 74, pl. 4, fig. 4.

Austroharpa (Palamharpa) cassinoides (Tate, 1889).—Rehder, 1973: 272, pl. 247.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene.

***Austroharpa kendricki* Ludbrook, 1978**

Austroharpa kendricki Ludbrook, 1978: 162, pl. 18, figs 4–6.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Austroharpa spiralistriata* Ludbrook, 1978**

Austroharpa spiralistriata Ludbrook, 1978: 162, pl. 18, figs 7–12.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Superfamily Volutoidea

Family Volutidae

Athleta Conrad, 1853

***Athleta wangerrip* Darragh, 1971**

Athleta (Athleta) wangerrip Darragh, 1971: 168, pl. 16, figs 27, 28, 31, 32, Fig. A.

Athleta wangerrip Darragh, 1971.—Stilwell, 2003: 260, Figs 5R–T, W, X.

Distribution. Otway Basin: Dilwyn Formation (type). *Age:* early Eocene.

Ternivoluta Martens, 1897

***Ternivoluta curvicostata* Darragh, 1971**

Athleta (Ternivoluta) curvicostata Darragh, 1971: 172, pl. 14, figs 1, 3, 5, 6.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Ternivoluta anticingulata* (McCoy, 1866)**

Voluta anticingulata McCoy, 1866a: 379.—McCoy, 1874: 24, pl. 6, figs 2, 2a–4; Pritchard, 1896: 92.

Voluta anticingulata var. *indivisa* McCoy, 1866a: 380.—McCoy, 1874: 25.

Voluta anticingulata var. *perstriata* McCoy, 1866a: 380 (lapsus pro *persulcata*).

Voluta anticingulata var. *persulcata* McCoy, 1866.—McCoy, 1874: 25.

Voluta antiscalaris McCoy, 1866.—Johnston, 1888: pl. 30, figs 5, 5a, b non McCoy.

Austrovoluta anticingulata (McCoy, 1866).—Cotton, 1949a: 185, pl. 15.

Athleta (Ternivoluta) anticingulata (McCoy, 1866).—Darragh, 1971: 173, pl. 14, figs 8–14.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. *Age:* late Oligocene–early Miocene.

***Ternivoluta craticula* Darragh, 1971**

Athleta (Ternivoluta) anticingulata craticula Darragh, 1971: 174, pl. 14, figs 2, 4, 7.

Distribution. Port Phillip Basin: Puebla Formation (type).—*Age:* early Miocene.

***Ternivoluta subcrenulifera* Darragh, 1971**

Athleta (Ternivoluta) subcrenulifera Darragh, 1971: 176, pl. 15, figs 18, 19, 22.

Distribution. Otway Basin: Fishing Point Marl (type). Age: early Miocene.

***Ternivoluta antiscalaris* (McCoy, 1866)**

Voluta antiscalaris McCoy, 1866a: 378.—McCoy, 1874: 26, pl. 6, figs 5, 5a, b, and two unnumbered figures.

Austrovoluta antiscalaris (McCoy, 1866).—Cotton, 1949a: 185, pl. 15 (type species of *Austrovoluta* Cotton, 1949 OD).

Athleta (Ternivoluta) antiscalaris antiscalaris (McCoy, 1866).—Darragh, 1971: 177, pl. 15, figs 17, 20, 21, 23, pl. 16, fig. 25, Fig. B.

Distribution. Otway Basin: Myaring beds, Fishing Point Marl, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). Age: early Miocene.

***Ternivoluta levior* (McCoy, 1866)**

Voluta antiscalaris levior McCoy, 1866a: 379.—McCoy, 1874: 28.

Volutilithes antiscalaris (McCoy, 1866).—Cossmann, 1899: 136, pl. 5, fig. 4.

Austrovoluta antiscalaris (McCoy, 1866).—Ludbrook, 1961b: pl. 7, fig. 5; Ludbrook, 1969b: fig. 96.7.

Austrovoluta antiscalaris (McCoy, 1866).—Cotton, 1949a: 185, pl. 15.

Athleta (Ternivoluta) antiscalaris levior (McCoy, 1866).—Darragh, 1971: 178, pl. 15, figs 15, 16, pl. 16, figs 35, 36.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Ternivoluta antispinosa* (Tate, 1899)**

Volutilithes antispinosus Tate, 1899a: 107, pl. 1, figs 5a, b.

Austrovoluta antispinosa Cotton, 1949a: pl. 15.

Athleta (Ternivoluta) antiscalaris antispinosa (Tate, 1899).—Darragh, 1971: 181, pl. 16, figs 29, 34, 37.

Distribution. Murray Basin: Bookpurnong Formation (type). Otway Basin: Gellibrand Formation, Port Campbell Limestone, Goodwood Formation. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Age: middle Miocene–late Miocene.

***Ternivoluta bungae* Darragh, 1971**

Athleta (Ternivoluta) bungae Darragh, 1971: 182, pl. 16, figs 30, 33.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene.

Lyria Gray, 1847

***Lyria lamellatoplicata* Darragh and Kendrick, 2008**

Lyria lamellatoplicata Darragh and Kendrick, 2008: 240, Figs 2.19–20.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri) (type). Age: late Eocene.

***Lyria craticulata* Darragh, 2017**

Mitra (Eumitra) varicosa Tate, 1889: 138, pl. 5, fig. 1 non Sowerby, 1850.

Lyria craticulata Darragh, 2017: 83, Figs 8.35–39.

Distribution: Eucla Basin: Pallinup Formation (type). St Vincent Basin: Blanche Point Formation. Age: late Eocene.

***Lyria semiacuticostata* Pritchard, 1896**

Lyria semiacuticostata Pritchard, 1896: 91, pl. 2, fig. 8.—Darragh, 1989: 208, pl. 1, fig. 18, pl. 2, figs 6, 7, Fig. 1.

Lyria acuticostata Chapman, 1920.—Chapman, 1922: 15, pl. 3, figs 22, 23?

Distribution. Port Phillip Basin: Jan Juc Formation?, Upper Maude Limestone. Bass Basin: Freestone Cove Sandstone (type). Age: late Oligocene?, early Miocene.

***Lyria acuticostulata* Darragh, 1989**

Lyria acuticostulata Darragh, 1989: 209, pl. 1, figs 2–5, fig. 2.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: early–middle Miocene.

***Lyria harpularia* Tate, 1888**

Lyria harpularia Tate, 1888: 176, pl. 12, fig. 12.—Tate: 1889: 118; Harris, 1897: 99, pl. 4, figs 9a, b; Cotton, 1949a: pl. 14; Darragh, 1989: 210, pl. 1, figs 7, 12, 17, 19, 20, Fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type?). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Lyria acuticostata* Chapman, 1920**

Lyria acuticostata Chapman, 1920: 241.—Darragh, 1989: 210, pl. 2, figs 8, 13.

Distribution. Eucla Basin: Nullarbor Limestone (type). Age: middle Miocene.

***Lyria* sp.**

Lyria sp. Darragh, 1989: 211.

Distribution: Carnarvon Basin: Trealla Limestone. Age: middle Miocene.

***Lyria gemmata* Tate, 1889**

Lyria gemmata Tate, 1889: 118, pl. 3, fig. 4.—Darragh, 1989: 211, pl. 1, figs 6, 13, 14, Fig. 4.

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation (type). Age: late Miocene–early Pliocene.

***Lyria gracilicostata* Ludbrook, 1978**

Lyria gracilicostata Ludbrook, 1978: 163, pl. 18, figs 15–18.—Darragh, 1989: 211, pl. 28, figs 1–6.

Distribution. Eucla Basin: Roe Calcarene (type). Age: late Pliocene.

***Lyria mitraeformis ovicampestris* Darragh, 1992**

Lyria mitraeformis (Lamarck, 1811).—Ludbrook, 1978: 164, pl. 18, figs 13, 14.

Lyria mitraeformis crassicosata Darragh, 1989: 212, pl. 28, figs 7–12 non Stoliczka, 1867.

Lyria mitraeformis ovicampestris Darragh, 1992: 135 nom. nov. for *Lyria mitraeformis crassicosata* Darragh, 1989 non Stoliczka, 1867.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Leptoscapha P. Fischer, 1883

***Leptoscapha crassilabrum* (Tate, 1889)**

Voluta crassilabrum Tate, 1889: 128, pl. 3, fig. 2a–c.

Ericusa crassilabrum (Tate, 1889).—Cotton, 1949a: pl. 15.

Leptoscapha crassilabrum (Tate, 1889).—Darragh, 1989: 213, pl. 1, figs 1, 8, 9, pl. 27, figs 2, 3, 5–10.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. South Australia (living). *Age:* middle Miocene, present.

Mitreola Swainson, 1833

***Mitreola salapatium* Darragh, 1989**

Mitreola salapatium Darragh, 1989: 215, pl. 1, figs 10, 11, 15, 16.—Darragh, 2017: 83, Figs 8.1–2.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Euroscaphella Van Dingen, Ceulemans and Landau, 2014

***Euroscaphella johannae* (Darragh, 1989)**

Scaphella (Aurinia) johannae Darragh, 1989: 216, pl. 2, figs 9–12, Fig. 5.

Distribution. Otway Basin: Brown Creek Formation (type). *Age:* late Eocene.

Notovoluta Cotton, 1946

***Notovoluta variculifera* Darragh, 1989**

Notovoluta variculifera Darragh, 1989: 218, pl. 3, figs 7, 9, 13, 14.

Distribution. Otway Basin: Brown Creek Formation (type). *Age:* late Eocene.

***Notovoluta capitonica* Darragh, 1989**

Notovoluta capitonica Darragh, 1989: 218, pl. 3, figs 8, 11, 12, 15, pl. 27, figs 1, 4.—Darragh and Kendrick, 2008: 239, Fig. 3.13.

Distribution. Southern Carnarvon Basin: unnamed Formation (Kalbarri). St Vincent Basin: Blanche Point Formation. Otway Basin: Brown Creek Formation (type). *Age:* late Eocene.

***Notovoluta pseudolirata* (Tate, 1888)**

Voluta pseudolirata Tate, 1888: 176, pl. 13, fig. 6.—Tate, 1889: 131.

Voluta (Aulica) pseudolirata Tate, 1888.—Harris, 1897: 104.

Notovoluta pseudolirata (Tate, 1888).—Cotton, 1949a: pl. 14; Wilson, 1972: 349, pl. 32, figs 4–7; Darragh, 1989: 218, pl. 4, figs 2, 4, pl. 5, figs 2, 10–12, Fig. 9.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Southwestern Australia (living). *Age:* middle Miocene–present.

***Notovoluta cathedralis* (Tate, 1888)**

Voluta cathedralis Tate, 1888: 176, pl. 13, fig. 10.—Tate, 1889: 131.

Scaphella (Eopsephia) cathedralis (Tate, 1888).—Harris, 1897: 117.

Notovoluta cathedralis (Tate, 1888).—Cotton, 1949a: pl. 15; Darragh, 1989: 219, pl. 2, figs 14, 15, pl. 4, figs 3, 5.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Notovoluta ellipsoidea* (Tate, 1888)**

Voluta ellipsoidea Tate, 1888: 176, pl. 13, fig. 4.—Tate, 1889: 127.

Voluta (Aulica) ellipsoidea Tate, 1888.—Harris, 1897: 105.

Voluta (Aulica) sexuaplicata Chapman, 1922: 15, pl. 3, fig. 24.

Ericusa ellipsoidea (Tate, 1888).—Cotton, 1949a: pl. 15.

Ericusa (Ericusa) ellipsoidea (Tate, 1888).—Ludbrook, 1958: 76.

Notovoluta ellipsoidea (Tate, 1888).—Darragh, 1989: 220, pl. 2, fig. 3, pl. 3, fig. 2, pl. 5, figs 4, 5.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). *Age:* middle Miocene.

***Notovoluta tabulata* (Tate, 1888)**

Voluta tabulate Tate, 1888: 176, pl. 13, fig. 3.—Tate, 1889: 132.

Notovoluta tabulata (Tate, 1888).—Darragh, 1989: 220, pl. 4, figs 1, 6, 8, 10, fig. 7.

Notovoluta tabulata subsp. Darragh, 1989: 221.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene.

***Notovoluta medicata* Darragh, 1989**

Notovoluta verconis (Tate, 1892).—Ludbrook, 1978: 166, pl. 18, fig. 19.

Notovoluta verconis medicata Darragh, 1989: 221, pl. 29, figs 1–6.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Notovoluta occulta* Darragh, 1989**

Notovoluta kreusleri occulta Darragh, 1989: 221, pl. 29, figs 11–14, Fig. 8.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Notovoluta saginata* (Finlay, 1930)**

Voluta lirata Johnston, 1880: 37 non Brocchi, 1814 nec Sowerby, 1825.—Pritchard, 1913: 197, pl. 20, figs 7, 8.

Voluta allporti Johnston, 1880.—Johnston, 1888: pl. 30, fig. 10 non Johnston, 1880.

Notopeplum saginatum Finlay, 1930: 45.—Ludbrook, 1967: 67, pl. 3, figs 5, 7.

Notovoluta saginata (Finlay, 1930).—Darragh, 1989: 223, pl. 2, fig. 2, pl. 5, fig. 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. *Age:* early Miocene.

***Notovoluta linigera* Darragh, 1989**

Notovoluta linigera Darragh, 1989: 223, pl. 3, figs 3, 4, 6, 10, Fig. 10.

Distribution. Otway Basin: Fishing Point Marl (type). *Age:* early Miocene.

***Notovoluta differta* Darragh, 1989**

Notovoluta differta Darragh, 1989: 223, pl. 4, figs 11–14.

Distribution. Otway Basin: Gellibrand Formation (type). *Age:* early Miocene.

***Notovoluta lintea* (Tate, 1889)**

Voluta lintea Tate, 1889: 129, pl. 3, figs 1a, b.

Notovoluta lintea (Tate, 1889).—Cotton, 1949a: pl. 15; Darragh, 1989: 224, pl. 3, figs 1, 5, pl. 4, fig. 9.

Distribution. Murray Basin. Cadell Marl (type). *Age:* middle Miocene.

Amoria Gray, 1855

***Amoria costellifera* (Tate, 1889)**

Voluta lirata Johnston, 1880.—Tate, 1889: 130, pl. 2, fig. 4 non Johnston.

Voluta costellifera Tate, 1889: 131, pl. 2, fig. 8.

Voluta (Aulica) lirata Johnston, 1880.—Harris, 1897: 103, pl. 4, fig. 12 non Johnston.

Nannamoria absidata Cotton, 1949a: 192, pl. 14.

Nannamoria costellifera (Tate, 1889).—Cotton, 1949a: pl. 14.

Amoria costellifera (Tate, 1889).—Darragh, 1989: 226, pl. 6, figs 4, 8, 10–12, Fig. 11.

Distribution. Murray Basin: Cadell Marl. Otway Basin. Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Amoria masoni* (Tate, 1889)**

Voluta masoni Tate, 1889: 128, pl. 3, fig. 9.

Voluta (Amoria) masoni Tate, 1889.—Harris, 1897: 110, pl. 4, figs 14a, b.

Amoria masoni (Tate, 1889).—Cossmann, 1899: 120, pl. 5, fig. 10, pl. 6, fig. 7.

Amorena masoni (Tate, 1889).—Cotton, 1949a: pl. 14.

Amoria undulata masoni (Tate, 1889).—Darragh, 1989: 227, pl. 6, figs 5, 6, 9.

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation (type). *Age:* late Miocene–early Pliocene.

***Amoria undulata* (Lamarck, 1804)**

Amoria (Amoria) grayi Ludbrook, 1954.—Ludbrook, 1958: 75, pl. 6, fig. 1?; Ludbrook, 1978: 165, pl. 19, fig. 1; Ludbrook, 1983: 46, Fig. 3x; Ludbrook, 1984: 236, Fig. 58b.

Amoria grayi Ludbrook, 1954.—Ludbrook, 1973: pl. 28, fig. 106?

Amoria undulata (Lamarck, 1804).—Darragh, 1989: 228, pl. 6, figs 1–3, 7.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands?, Point Ellen Formation. Otway Basin: Werrikoo Limestone. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Bass Basin: Cameron Inlet Formation, Memana Formation. Southern and eastern Australia (living). *Age:* middle Miocene–present.

***Amoria exoptanda* (Reeve, 1849)**

Amoria exoptanda (Reeve, 1849).—Darragh, 1989: 229, pl. 29, figs 7, 10.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Nannamoria Iredale, 1929

***Nannamoria stolidia* (Johnston, 1880)**

Voluta stolidia Johnston, 1880: 36.—Johnston, 1888: pl. 30, figs 4, 4a.

Paramoria stolidia (Johnston, 1880).—Ludbrook, 1967: 68, pl. 3, figs 9, 10.

Nannamoria stolidia (Johnston, 1880).—Darragh, 1989: 230, pl. 7, figs 12–15, pl. 9, figs 2, 3.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Nannamoria strophodon* (McCoy, 1877)**

Voluta strophodon McCoy, 1877: 25, pl. 37, figs 2–4, 4a–c.—Tate, 1889: 134.

Voluta (Aulica) strophodon McCoy, 1876.—Harris, 1897: 101, pl. 4, figs 11a, b.

Vespertilio weldi (Tenison Woods, 1876).—Cossmann, 1899: 118, pl. 4, fig. 23, pl. 6, fig. 8, fig. 16 non Tenison Woods, 1876.

Voluta strophodon var. *brevispira* Pritchard, 1913: 194.

Voluta strophodon var. *longispira* Pritchard, 1913: 194.

Cymbiola strophodon (McCoy, 1876).—Cotton, 1949a: pl. 15.

Notovoluta tabulata Cotton, 1949a: pl. 14.

Cymbiola (Cymbiola) tabulata (Tate, 1888).—Ludbrook, 1958: 74, pl. 6, fig. 2 non Tate.

Nannamoria strophodon strophodon (McCoy, 1876).—Darragh, 1989: 230, pl. 8, figs 1, 4–6, 9, 11.

Nannamoria gnotuki Hawke, 2021: 248, pl. 1, figs 1a, b, 3a, b, 5a, b, pl. 5, fig. 1.

Nannamoria malonei Hawke, 2021: 250, pl. 3, figs 1–8, pl. 5, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl, Bookpurnong Formation. Otway Basin: Gellibrand Formation, Muddy Creek Formation, Goodwood Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* early–late Miocene.

***Nannamoria amplexa* Darragh, 1989**

Nannamoria amplexa Darragh, 1989: 232, pl. 7, figs 2, 3, 6, pl. 9, figs 9, 12, pl. 10, fig. 12.

Distribution. Gippsland Basin: Tambo River Formation, Jemmys Point Formation (type). *Age:* late Miocene.

***Nannamoria lundeliusae* Ludbrook, 1978**

Nannamoria lundeliusae Ludbrook, 1978: 165, pl. 18, figs 20, 21.—Darragh, 1989: 232, pl. 29, figs 8, 9, pl. 30, figs 5, 6.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Nannamoria weldii* (Tenison Woods, 1876)**

Voluta weldii Tenison Woods, 1876: 24, fig. 2.—Johnston, 1888: pl. 30, figs 6, 6a, b; Tate, 1889: 134; Pritchard, 1913: 193, pl. 20, fig. 1.

Voluta weldii var. *angustior* Pritchard, 1913: 194, pl. 20, figs 4, 5.

Cymbiola weldii (Tenison Woods, 1876).—Cotton, 1949a: pl. 14.

Paramoria weldi (Tenison Woods, 1876).—Ludbrook, 1967: 68, pl. 3, figs 1, 2.

Nannamoria weldii (Tenison Woods, 1876).—Darragh, 1989: 232, pl. 7, figs 5, 7, pl. 10, figs 1, 2.

Nannamoria persimilis Hawke, 2021: 252, pl. 1, figs 2a, b, 4a, b, 6a, b, pl. 5, fig. 6.

Distribution. Port Phillip Basin: Puebla Formation. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone (type). *Age:* early Miocene.

***Nannamoria fasciculata* Darragh, 1989**

Nannamoria fasciculata Darragh, 1989: 233, pl. 7, fig. 10, pl. 10, figs 9, 11.

Distribution. Otway Basin: Fishing Point Marl (type). *Age:* early Miocene.

***Nannamoria trionyma* Darragh, 1989**

Voluta weldii var. *intermedia* Pritchard, 1913: 193, pl. 20, figs 2, 3 non Lahille, 1895.

Nannamoria trionyma Darragh, 1989: 233, pl. 11, figs 1, 4, 6, 7.—Hawke, 2021: pl. 4, figs 2a, b.

Nannamoria cadella Hawke, 2021: 251, pl. 1, figs 7–10, pl. 5, fig. 4.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Nannamoria paraboloides* Darragh, 1989**

Nannamoria paraboloides Darragh, 1989: 234, pl. 9, figs 6, 7, pl. 10, figs 7, 8, pl. 11, figs 2, 3.

Nannamoria flindersi Hawke, 2021: 246, pl. 2, figs 1–14, pl. 5, fig. 2.

Nannamoria costatum [sic] Hawke, 2021: 248, pl. 4, figs 1a, b, pl. 5, fig. 7.

Nannamoria hiscocki Hawke, 2021: 252, pl. 4, figs 3a, b, pl. 5, fig. 5.

Distribution. Otway Basin: Goodwood Formation (type). Gippsland Basin: Rose Hill Marl, Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. *Age:* late Miocene–late Pliocene.

***Nannamoria deplexa* Darragh, 1989**

Nannamoria deplexa Darragh, 1989: 234, pl. 7, figs 1, 4, pl. 10, figs 5, 6, pl. 11, figs 5, 8.

Distribution. Otway Basin: Myaring beds, Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* early Miocene.

***Nannamoria ralphi* (Finlay, 1930)**

Voluta (Volutaconus) conoidea Tate, 1888: 176, pl. 13, fig. 9 non Renier, 1804.—Harris, 1897: 107, pl. 4, figs 13a, b.

Voluta conoidea Tate, 1888; Tate, 1889: 125.

Volutaconus conoideus (Tate, 1888).—Cossmann, 1899: 131, pl. 7, fig. 3.

Volutaconus ralphi Finlay, 1930: 44.—Cotton, 1949a: pl. 15.

Nannamoria ralphi (Finlay, 1930).—Darragh, 1989: 235, pl. 9, figs 1, 4, 5, 8, pl. 10, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

***Nannamoria limbata* (Tate, 1888)**

Voluta (Volutaconus) limbata Tate, 1888: 176, pl. 13, fig. 8.

Voluta limbata Tate, 1888: Tate, 1889: 125.

Volutaconus limbata (Tate, 1888).—Cotton, 1949a: pl. 15.

Nannamoria limbata (Tate, 1888).—Darragh, 1989: 235, pl. 7, figs 8, 9, 11, pl. 9, figs 10, 11, fig. 12.

Nannamoria alquezae Hawke, 2021: 249, pl. 4, figs 5–13, pl. 5, fig. 3.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Nannamoria cinctuta* Darragh, 1989**

Nannamoria cinctuta Darragh, 1989: 236, pl. 11, figs 9–12.

Distribution. Bass Basin: Cameron Inlet Formation (type). *Age:* late Pliocene.

Spinomelon Marwick, 1926

***Spinomelon cribrosa* (Tate, 1889)**

Voluta cribrosa Tate, 1889: 129, pl. 3, fig. 8

Alcithoe (Waihaioia) cribrosa (Tate, 1889).—Darragh, 1989: 238, pl. 13, figs 1–4.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

***Spinomelon pagodoides* (Tate, 1888)**

Voluta pagodoides Tate, 1888: 176, pl. 13, fig. 7.—Tate, 1889: 132.

Scaphella (Eosephia) pagodoides (Tate, 1888).—Harris, 1897: 117.

?*Notovoluta pagodoides* (Tate, 1888).—Cotton, 1949a: pl. 14.

Notovoluta pagodoides (Tate, 1888).—Ludbrook, 1969b: Fig. 96.3; Ludbrook, 1973: pl. 25, figs 34, 35.

Alcithoe (Waihaioia) pagodoides pagodoides (Tate, 1889).—Darragh, 1989: 239, pl. 12, figs 1, 4, 7, 10, 13, Fig. 17.

Alcithoe (Waihaioia) pagodoides (Tate, 1889).—Darragh and Kendrick, 2008: 238, Fig. 2.21.

Distribution. Carnarvon Basin: unnamed sandstone (Kalbarri). St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay, Port Phillip Basin: Jan Juc Formation. *Age:* late Eocene–late Oligocene.

***Spinomelon sororcula* (Darragh, 1989)**

Alcithoe (Waihaioia) pagodoides sororcula Darragh, 1989: 239, pl. 12, figs 2, 3, 6, 8.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Spinomelon neglectoides* (Darragh, 1989)**

Alcithoe (Waihaioia) neglectoides Darragh, 1989: 240, pl. 12, figs 5, 9, 11, 12.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Spinomelon pueblensis* (Pritchard, 1898)**

Voluta pueblensis Pritchard, 1898: 109, pl. 8, fig. 7.

Alcithoe (Waihaioia) pueblensis (Pritchard, 1898).—Darragh, 1989: 241, pl. 14, figs 1–3, 8–10, fig. 15.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Spinomelon sarissa* (Tate, 1889)**

Voluta sarissa Tate, 1889: 129, pl. 2, figs 1a, b.

Scaphella (*Eosephia*) *sarissa* (Tate, 1889).—Harris, 1897: 116, pl. 4, figs 16a, b.

Notovoluta sarissa (Tate, 1889).—Cotton, 1949a: pl. 14.

Alcithoe (*Waihaioia*) *sarissa* (Tate, 1889).—Darragh, 1989: 241, pl. 13, fig. 5, pl. 14, figs 5, 11, fig. 19.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Puebla Formation, Gellibrand Formation. Age: early–middle Miocene.

***Spinomelon tateana* (Johnston, 1880)**

Voluta tateana Johnston, 1880: 37.—Johnston, 1888: pl. 30, figs 3, 3a; Tate, 1889: 132, pl. 2, fig. 5; Pritchard, 1913: 195.

Notovoluta tateana (Johnston, 1880).—Cotton, 1949a: pl. 14; Ludbrook, 1967: 68, pl. 4, figs 1, 2.

Alcithoe (*Waihaioia*) *tateana* (Johnston, 1880).—Darragh, 1989: 242, pl. 14, figs 4, 6, 7, 12.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. Age: early Miocene.

Alcithoe H. and A. Adams, 1853

***Alcithoe macrocephala* (Finlay, 1927)**

Voluta capitata Tate, 1889: 127, pl. 2, figs 3a, b non Perry, 1811.

Scaphella macrocephala Finlay, 1927: 513 nom. nov. for *Voluta capitata* Tate, 1889 non Perry, 1811.

Alcithoe (*Alcithoe*) *macrocephala* (Finlay, 1927).—Darragh, 1989: 243, pl. 13, figs 6–8, Fig. 18.

Distribution. Murray Basin: Bookpurnong Formation (type). Otway Basin: Goodwood Formation. Age: late Miocene.

***Alcithoe orphanata* Darragh, 1989**

Alcithoe (*Alcithoe*) *orphanata* Darragh, 1989: 243, pl. 13, figs 9–12, Fig. 20.

Distribution. Bass Basin: Cameron Inlet Formation (type). Age: late Pliocene.

Ericusa H. and A. Adams, 1858

***Ericusa pellita* Johnston, 1880**

Voluta pellita Johnston, 1880: 36.—Johnston, 1888: pl. 30, fig. 2; Pritchard, 1896: 97; Pritchard, 1913: 198.

?*Voluta allporti* Johnston, 1880: 35.

Voluta halli Pritchard, 1896: 101, pl. 2, figs 1–3.—Pritchard, 1913: 198.

Ericusa (*Mesericusa*) *pellita* (Johnston, 1880).—Ludbrook, 1967: 67, pl. 4, figs 9, 10.

Ericusa sowerbyi pellita (Johnston, 1880).—Darragh, 1989: 244, pl. 15, figs 7, 8, pl. 16, figs 4, 5, pl. 17, figs 4, 5, pl. 18, figs 4, 5, Fig. 21.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. Age: late Oligocene–early Miocene.

***Ericusa macroptera* (McCoy, 1866)**

Voluta macroptera McCoy, 1866a: 375; 1874: 29, pl. 7 figs 1–4.—Tate, 1889: 124.

Mesericusa halli (Pritchard, 1896).—Cotton, 1949a: pl. 15 non Pritchard.

Pterospira macroptera (McCoy, 1866).—Cotton, 1949a: pl. 15.

Ericusa macroptera (McCoy, 1866).—Darragh, 1989: 247, pl. 15, figs 1, 2, pl. 17, figs 1, 2, pl. 18, fig. 3, Fig. 23.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Ericusa atkinsoni* (Pritchard, 1896)**

Voluta atkinsoni Pritchard, 1896: 100, pl. 3, fig. 1.

Voluta macroptera McCoy, 1896.—Pritchard, 1913: 199, pl. 20, fig. 6 non McCoy.

Ericusa atkinsoni (Pritchard, 1896).—Darragh, 1989: 247, pl. 19, figs 3, 5, pl. 20, figs 1, 3, Fig. 22.

Distribution. Murray Basin: Mannum Formation. Otway Basin: Fishing Point Marl, Gellibrand Formation. Port Phillip Basin: Puebla Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Ericusa ancilloides* (Tate, 1889)**

Voluta ancilloides Tate, 1889: 126, pl. 3, fig. 7.

Scaphella ancilloides (Tate, 1889).—Harris, 1897: 112.

Alcithoe ancilloides (Tate, 1889).—Cossmann, 1899: 133, pl. 7, fig. 6, fig. 21.

Ericusa ancilloides (Tate, 1889).—Cotton, 1949a: pl. 14; Darragh, 1989: 248, pl. 15, figs 3–5, Fig. 25.

Ericusa (*Ericusa*) *ancilloides* (Tate, 1889).—Ludbrook, 1958: 77, pl. 4, fig. 2.

Distribution. Murray Basin: St Vincent Basin: Dry Creek Sands. Cadell Marl. Otway Basin: Puebla Formation, Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Bass Basin: Freestone Cove Sandstone. Age: early–middle Miocene.

***Ericusa ngayawang* Yates, 2022**

Ericusa ngayawang Yates, 2022: 4, Figs 2A–F.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Ericusa hamiltonensis* (Pritchard, 1898)**

Voluta hamiltonensis Pritchard, 1898: 107, pl. 8, fig. 5.

Ericusa hamiltonensis (Pritchard, 1898).—Darragh, 1989: 248, pl. 15, figs 6, 9; pl. 18, figs 2, 7.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Ericusa fulgetroides* (Pritchard, 1898)**

Voluta fulgetroides Pritchard, 1898: 105, pl. 7, fig. 4.

Ericusa fulgetroides (Pritchard, 1898).—Darragh, 1989: 249, pl. 16, figs 6, 8, pl. 18, figs 1, 6.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Ericusa sowerbyi* (Kiener, 1831)**

Ericusa sowerbyi sowerbyi (Kiener, 1831).—Darragh, 1989: 246, pl. 16, figs 1–3, 7, pl. 17, fig. 3, pl. 18, fig. 8.

Distribution. Otway Basin: Werrikoo Limestone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Southeastern and eastern Australia (living). **Age:** late Miocene–present.

***Ericusa subtilis* (Ludbrook, 1978)**

Notovoluta kreuslerae subtilis Ludbrook, 1978: 166, pl. 19, figs 4, 5.

Ericusa subtilis (Ludbrook, 1978).—Darragh, 1989: 249, pl. 30, figs 1–4, fig. 24.

Distribution. Eucla Basin: Roe Calcarenite (type). **Age:** late Pliocene.

***Ericusa fulgetrum* (G. B. Sowerby I, 1825)**

Ericusa fulgetrum orca Cotton, 1952: Ludbrook, 1978: 167, pl. 19, figs 2, 3.

Ericusa fulgetrum (G. B. Sowerby I, 1825).—Darragh, 1989: 249, pl. 30, fig. 7.

Distribution. Eucla Basin: Roe Calcarenite. South Australia (living). **Age:** late Pliocene–present.

Livonia Gray, 1855

***Livonia spenceri* (Pritchard, 1896)**

Voluta spenceri Pritchard, 1896: 98, pl. 4, figs 1, 2.

Livonia spenceri (Pritchard, 1896).—Darragh, 1989: 251, pl. 23, fig. 2, pl. 24, fig. 5.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Puebla Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene, middle Miocene?

***Livonia stephensi* (Johnston, 1880)**

Voluta stephensi Johnston, 1880: 35.—Johnston, 1888: pl. 30, fig. 1; Tate, 1889: 122; Pritchard, 1896: 94.

Voluta wynyardensis Pritchard, 1913: 200, pl. 21, figs 1, 2.

Alcithoe (Cottonia) stephensi (Johnston, 1880).—Ludbrook, 1967: 67, pl. 3, figs 3, 4.

Livonia stephensi (Johnston, 1880).—Darragh, 1989: 251, pl. 23, figs 1, 3–6, pl. 30, figs 8, 9, fig. 26.

Distribution. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone (type). **Age:** late Oligocene–early Miocene.

***Livonia mortoni* (Tate, 1888)**

Voluta mortoni Tate, 1889: 124, pl. 9, fig. 1.

Pterospira mortoni (Tate, 1889).—Ludbrook, 1967: 67, pl. 3, figs 6, 8.

Livonia mortoni mortoni (Tate, 1888).—Darragh, 1989: 252, pl. 22, figs 1–4, Fig. 28.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. **Age:** early Miocene.

***Livonia connudata* Darragh, 1989**

Voluta mortoni Tate, 1889: 124, pl. 9, fig. 2.

Pterospira mortoni (Tate, 1889).—Cossmann, 1899: 134, pl. 6, fig. 4; Cotton, 1949a: pl. 15 non Tate.

Livonia mortoni connudata Darragh, 1989: 253, pl. 22, figs 6, 7.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.

***Livonia voluminosa* Darragh, 1989**

Voluta alticostata Tate, 1889: Pritchard, 1896: 103.

Voluta stephensi Johnston, 1880.—Pritchard, 1913: 195, pl. 21, figs 3, 4 non Johnston.

Livonia voluminosa Darragh, 1989: 253, pl. 19, figs 1, 2, 4, 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. **Age:** early Miocene.

***Livonia* sp. cf. *L. nodiplicata* (Cox)**

Livonia sp. cf. *L. nodiplicata* (Cox).—Darragh, 1989: 253.

Distribution. Eucla Basin: Abrakurrie Limestone. **Age:** early Miocene.

***Livonia heptagonalis* (Tate, 1889)**

Voluta heptagonalis Tate, 1889: 121, pl. 4, figs 1, 7.

Cottonia heptagonalis (Tate, 1889).—Cotton, 1949a, pl. 14.

Livonia heptagonalis (Tate, 1889).—Darragh, 1989: 254, pl. 21, figs 2, 5, pl. 24, figs 1, 2.

Distribution. Murray Basin: Cadell Marl (type). **Age:** middle Miocene.

***Livonia hannafori* (McCoy, 1866)**

(Type species of *Pterospira* Harris, 1897 OD)

Voluta hannafori McCoy, 1866a: 376.—McCoy, 1874: 23, pl. 6, fig. 1; McCoy, 1877: 25, pl. 37, fig. 1; Tate, 1889: 121.

Voluta alticostata Tate, 1889: 122, pl. 5, fig. 7.

Voluta (Pterospira) hannafori McCoy, 1866.—Harris, 1897: 100, pl. 4, figs 10a, b.

Voluta validicostata Dennant and Kitson, 1903: 100 nom. nov. for *V. alticostata* Tate, 1889 unnecessary name change.

Pterospira hannafori (McCoy, 1866).—Cossmann, 1899: 134, pl. 6, fig. 6; Cotton, 1949a: pl. 14; Wilson and Gillett, 1971: 124, Fig. 25.

Cottonia alticostata (Tate, 1889).—Cotton, 1949a: pl. 14.

Livonia hannafori (McCoy, 1866).—Darragh, 1989: 254, pl. 20, figs 5, 6, pl. 21, figs 4, 6, pl. 22, fig. 5.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

***Livonia gatliffi* (Pritchard, 1898)**

Voluta gatliffi Pritchard, 1898: 108, pl. 8, fig. 6.

Livonia gatliffi (Pritchard, 1898).—Darragh, 1989: 255, pl. 20, figs 2, 4; pl. 21, figs 1, 3, Fig. 27.

Distribution. Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

***Livonia mammilla* (G. B. Sowerby I)**

Livonia mammilla (G. B. Sowerby I).—Darragh, 1989: 255.

Distribution. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Southeastern and eastern Australia (living). *Age:* early Pliocene–present.

Notopeplum Finlay, 1927

***Notopeplum protorhysum* (Tate, 1889)**

Voluta protorhysa Tate, 1889: 126, pl. 2, figs 6a, b.

Notopeplum protorhysum (Tate, 1889).—Finlay, 1927: 514; Cotton, 1949a: pl. 15; Ludbrook, 1973: pl. 25, fig. 36; Darragh, 1989: 256, pl. 25, figs 7, 10, 11, Fig. 31; Darragh and Kendrick, 2008: 239, Figs 3.16–17.

Notopeplum cf. *N. protorhysum* (Tate, 1889).—Darragh, 2017: 84, Figs 8.29–30.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Notopeplum primarugatum* Darragh, 1989**

Notopeplum primarugatum Darragh, 1989: 257, pl. 25, figs 1–4, 6, Fig. 30.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Notopeplum maccoyi* (Tenison Woods, 1877)**

Voluta mccoyi Tenison Woods, 1877: 95.

Voluta agnewi Johnston, 1880.—Johnston, 1888: pl. 30, fig. 9.

Voluta maccoyi Tenison Woods, 1877.—Pritchard, 1913: 196 (in part).

Notopeplum mccoyi (Tenison Woods, 1877).—Darragh, 1989: 257, pl. 26, figs 1, 6, 11, 12.

Distribution. Bass Basin. Freestone Cove Sandstone (type), Fossil Bluff Sandstone.

***Notopeplum translucidum* (Verco, 1896)**

Voluta mccooyii Tenison Woods, 1877.—Tate, 1889: 126, pl. 2, fig. 2 non Tenison Woods.

Voluta mccooyii Tenison Woods, 1877.—Pritchard, 1896: 95 part.

Scaphella maccoyi (Tenison Woods, 1877).—Harris, 1897: 111 non Tenison Woods.

Notopeplum balcombensis Finlay, 1930: 46.—Cotton, 1949a: pl. 15.

Notopeplum mccooyi translucidum (Verco, 1896).—Darragh, 1989: 258, pl. 26, figs 2–5, 7–9, 13.

Distribution. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Southern Australia (living). *Age:* early–middle Miocene, present.

***Notopeplum politum* (Tate, 1889)**

(Type species of the genus OD)

Voluta polita Tate, 1889: 127, pl. 2, fig. 7.

Scaphella polita (Tate, 1889).—Harris, 1897: 112, pl. 4, figs 15a, b.

Scaphella victoriensis Cossmann, 1899: 127 nom. nov. for *Voluta polita* Tate, 1889 non “Conrad, 1854”, invalid name change.

Notopeplum victoriensis Finlay, 1927: 513.—Finlay, 1930: 45.

Notopeplum politum (Tate, 1889).—Wilson, 1972: 357, Fig. C; Darragh, 1989: 258, pl. 25, figs 8, 9, 12, Fig. 29.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Cymbiola Swainson, 1831

***Cymbiola uncifera* (Tate, 1888)**

Voluta uncifera Tate, 1888: 176, pl. 12, fig. 10; Tate, 1889: 124.

Cymbiola (Aulicina) irvinae (Smith, 1909).—Ludbrook, 1973: pl. 28, fig. 107.

Cymbiola uncifera (Tate, 1888).—Darragh, 1989: 261, pl. 24, figs 4, 7.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Cymbiola macdonaldi* (Tate, 1888)**

Voluta macdonaldi Tate, 1888: 176, pl. 12, fig. 11.—Tate, 1889: 123, pl. 3, fig. 5.

Voluta (Aulica) macdonaldi Tate, 1888.—Harris, 1897: 106.

Cymbiola macdonaldi (Tate, 1888).—Cotton, 1949a: pl. 14; Darragh, 1989: 261, pl. 24, figs 3, 6.

Cymbiola (Aulicina) irvinae (Smith, 1909).—Ludbrook, 1973: pl. 28, fig. 107.

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Fishing Point Marl?, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. *Age:* early?–middle Miocene.

***Cymbiola irvinae* (Smith, 1909)**

Cymbiola (Aulicina) irvinae (Smith, 1909).—Ludbrook, 1978: 164, pl. 18, figs 22, 23.

Distribution. Eucla Basin: Roe Calcarenite. Western Australia (living). *Age:* late Pliocene–present.

Nomen dubium

Voluta agnewi Johnson, 1880: 37. The original description of this species and the figure later given by Johnston in 1880 do not match. As the type specimen is missing, the name should be regarded as a nomen dubium.

Family Cystiscidae

Canalispira Jousseaume, 1875

***Canalispira incommoda* (Ludbrook, 1958) comb. nov.**

Marginella sp. Ludbrook, 1941: 97.

Volvarina (?) *incommoda* Ludbrook, 1958: 84, pl. 3, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Cystiscus Stimpson, 1865

***Cystiscus rotunda* (May, 1922) comb. nov.**

Marginella rotunda May, 1922: 10, pl. 4, fig. 4.—Cotton, 1949b: 219, pl. 17.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Cystiscus septemPLICATA* (Tate, 1879) comb. nov.**

Marginella septemPLICATA Tate, 1879: 95.—Cotton, 1949b: 219, pl. 17.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Cystiscus moana* (Ludbrook, 1941) comb. nov.**

Marginella moana Ludbrook, 1941: 97, pl. 5, fig. 15.—Cotton, 1949b: 220, pl. 17.

Closia (*Closia*) *moana* (Ludbrook, 1941).—Ludbrook, 1958: 81.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Crithe Gould, 1860

***Crithe globiformis* (Chapman and Crespin, 1928) comb. nov.**

Marginella globiformis Chapman and Crespin, 1928: 120, pl. 9, fig. 56.—Cotton, 1949b: 219, pl. 18.

Distribution. Gippsland Basin. Wuk Wuk Marl? (type). *Age:* middle Miocene.

***Crithe arena* (Cotton, 1949) comb. nov.**

Marginella arena Cotton, 1949b: 214, 220, pl. 18.

Closia (*Closia*) *arena* (Cotton, 1949).—Ludbrook, 1958: 81, pl. 3, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Crithe planilabrum* (Ludbrook, 1958) comb. nov.**

Closia (*Closia*) *planilabrum* Ludbrook, 1958: 81, pl. 3, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Persicula Schuhmacher, 1817

***Persicula pulchella* (Kiener, 1834)**

Cypraeolina newmanae (Cotton, 1949).—Ludbrook, 1978: 170, pl. 22, figs 34, 35.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Gibberula Swainson, 1840

***Gibberula kitsoni* (Chapman, 1921) comb. nov.**

Marginella kitsoni Chapman, 1921b: 321, pl. 51, fig. 4.—Cotton, 1949b: 219, pl. 18 (type species of *Lataginata* Laseron, 1957 OD).

Lataginata kitsoni (Chapman, 1921).—Laseron, 1957: 288, fig. 30.

Distribution. Otway Basin Fishing Point Marl (type).—*Age:* early Miocene.

***Gibberula pera* (Cotton, 1949) comb. nov.**

Marginella pera Cotton, 1949b: 215, 219, pl. 17.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Gibberula doma* (Cotton, 1949) comb. nov.**

Marginella doma Cotton, 1949b: 213, 220, pl. 18 (type species of *Vetaginella* Laseron, 1957 OD).

Vetaginella doma (Cotton, 1949).—Laseron, 1957: 288, fig. 31.

Closia (*Closia*) *doma* (Cotton, 1949).—Ludbrook, 1958: 82, pl. 3, fig. 18.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Gibberula metula* (Cotton, 1949) comb. nov.**

Marginella metula Cotton, 1949b: 214, 221, pl. 18 (type species of *Dentiginella* Laseron, 1957 OD).

Dentiginella metula (Cotton, 1949).—Laseron, 1957: 288, fig. 27.

Serrata metula (Cotton, 1949).—Ludbrook, 1958: 82, pl. 3, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Family Marginellidae

Conuginella Laseron, 1957

***Conuginella inermis* (Tate, 1879)**

(Type species of the genus OD)

Marginella inermis Tate, 1879: 93.—Cotton, 1949b: 220, pl. 17.

Conuginella inermis (Tate, 1878 [sic]).—Laseron, 1957: 288, fig. 28.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). *Age:* middle Miocene.

Serrata Jousseume, 1875

***Serrata strombiformis* (Tenison Woods, 1877) comb. nov.**

Marginella strombiformis Tenison Woods, 1877: 109.—Tate, 1879: 93; Johnston, 1888: pl. 31, figs 4, 4a; Cotton, 1949b: 218, pl. 17.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Serrata propinqua* (Tate, 1879)**

Marginella propinqua Tate, 1879: 94.—Marwick, 1924a: 324, pl. 6, fig. 5; Cotton, 1949b: 220, pl. 17.

Marginella (*Serrata*) *propinqua* Tate, 1878 [sic] .—Cossmann, 1899: 86, pl. 4, fig. 11.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. *Age:* middle Miocene.

***Serrata winteri* (Tate, 1879)**

Marginella winteri Tate, 1879: 94.—Cotton, 1949b: 220, pl. 17 (type species of *Exiginella* Laseron, 1957 OD).

Mitra coarctata Tenison Woods, 1879b: 8, pl. 2, fig. 10 non Reeve, 1844.

Marginella (*Serrata*) *winkleri* [sic] Tate, 1878 [sic] .—Cossmann, 1899: 86, pl. 4, fig. 22.

Exiginella winteri (Tate, 1878 [sic]).—Laseron, 1957: 289, fig. 33.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). *Age:* middle Miocene.

Remarks. Cernohorsky (1972: 210) pointed out that *Mitra coarctata* Tenison Woods was a synonym of *Marginella winteri*.

***Serrata woodsi* (Tate, 1879) comb. nov.**

Marginella woodsi Tate, 1879: 94.—Cotton, 1949b: 217, pl. 17.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Age: middle Miocene.

Stromboginella Laseron, 1957

***Stromboginella bicrassiplicata* (Ludbrook, 1958) comb. nov.**

Serrata bicrassiplicata Ludbrook, 1958: 83, pl. 3, fig. 21

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Stromboginella crassidens* (Chapman and Crespin, 1928)**
(Type species of the genus OD)

Marginella crassidens Chapman and Crespin, 1928: 120, pl. 9, fig. 55.—Cotton, 1949b: 221, pl. 18.

Stromboginella crassidens (Chapman and Crespin, 1928).—Laseron, 1957: 289, fig. 32.

Distribution: Gippsland Basin: Jemmys Point Formation (type).—late Miocene

Mioginella Laseron, 1957

***Mioginella regula* (Cotton, 1949)**

(Type species of the genus OD)

Marginella regula Cotton, 1949b: 213, 218, pl. 18.

Mioginella regula (Cotton, 1949).—Laseron, 1957: 287, fig. 24.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Mioginella mala* (Cotton, 1949) comb. nov.**

Marginella mala Cotton, 1949b: 215, 218, pl. 18.

Serrata mala (Cotton, 1949).—Darragh, 2017: 82, Figs 7.2, 7.8.

Serrata cf. *S. mala* (Cotton, 1949).—Darragh, 2017: 82, Fig. 7.7.

Distribution. Eucla Basin: Pallinup Formation (cf.). St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Protoginella Laseron, 1957

***Protoginella wentworthii* (Tenison Woods, 1877) comb. nov.**

Marginella wentworthii Tenison Woods, 1877: 109.—Tate, 1879: 92; Johnston, 1888: pl. 31, figs 5, 5a; Cotton, 1949b: 217, pl. 17.

Marginella (Eratoidea) wentworthii Tenison Woods, 1877.—Ludbrook, 1958: 79, pl. 3, fig. 10.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early–middle Miocene.

***Protoginella atkinsoni* (May, 1922) comb. nov.**

Marginella atkinsoni May, 1922: 9, pl. 4, fig. 1; Cotton, 1949b: 217, pl. 17.

Marginella (Eratoidea) atkinsoni May, 1922.—Ludbrook, 1967: 68, pl. 2, fig. 30.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Protoginella corpulenta* (May, 1922) comb. nov.**

Marginella corpulenta May, 1922: 9, pl. 4, fig. 2.—Cotton, 1949b: 217, pl. 17.

Marginella (Eratoidea) corpulenta May, 1922.—Ludbrook, 1967: 68, pl. 2, fig. 28.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Protoginella micula* (Tate, 1879) comb. nov.**

Marginella micula Tate, 1879: 93.—Cotton, 1949b: 220, pl. 17.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Alaginella Laseron, 1957

***Alaginella aldingae* (Tate, 1879) comb. nov.**

Marginella aldingae Tate, 1879: 90.—Cotton, 1949b: 218, pl. 17.

Marginella palla Cotton, 1949b: 215, 218, pl. 18 (type species of *Cassoginella* Laseron, 1957 OD).

Cassoginella palla (Cotton, 1949).—Laseron, 1957: 287, fig. 25.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Alaginella charma* (Cotton, 1949) comb. nov.**

Marginella charma Cotton, 1949b: 215, 218, pl. 18.

Serrata charma (Cotton, 1949).—Ludbrook, 1958: 82, pl. 3, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Austroginella Laseron, 1957

***Austroginella subquinquidens* (May, 1922) comb. nov.**

Marginella subquinquidens May, 1922: 10, pl. 4, fig. 3.—Cotton, 1949b: 218, pl. 17.

Marginella (Eratoidea) subquinquidens May, 1922.—Ludbrook, 1967: 68, pl. 2, fig. 29

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Austroginella glaessneri* (Ludbrook, 1958) comb. nov.**

Marginella (Eratoidea) glaessneri Ludbrook, 1958: 78, pl. 3, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Austroginella praeformicula* (Chapman and Gabriel, 1914) comb. nov.**

Marginella praeformicula Chapman and Gabriel, 1914: 326, pl. 28, fig. 35.—Chapman, 1916: pl. 71, fig. 35; Cotton, 1949b: 218, pl. 18.

Distribution. Murray Basin: Bookpurnong Formation (type).—middle Miocene.

***Austroginella muscaroides* (Tate, 1879) comb. nov.**

Marginella muscaroides Tate, 1879: 91.—Cotton, 1949b: 217, pl. 17.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Mesoginella Laseron, 1957***Mesoginella clisia* (Cotton, 1949) comb. nov.***Marginella clisia* Cotton, 1949b: 212, 221, pl. 17.*Distribution.* Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.***Mesoginella physa* (Cotton, 1949) comb. nov.***Marginella physa* Cotton, 1949b: 212, 219, pl. 18 (type species of *Hianoginella* Laseron, 1957 OD).*Hianoginella physa* (Cotton, 1949).—Laseron, 1957: 288, fig. 29.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.***Mesoginella clima* (Cotton, 1949) comb. nov.***Marginella clima* Cotton, 1949b: 213, 221, pl. 18.*Gibberula clima* (Cotton, 1949).—Ludbrook, 1958: 80, pl. 3, fig. 13.*Volvarina* (*Sinuginella*) *clima* (Cotton, 1949).—Ludbrook, 1978: 171, pl. 22, figs 28, 29.*Distribution.* Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands. *Age:* middle Miocene, late Pliocene?***Mesoginella cassidiformis* (Tate, 1879) comb. nov.***Marginella cassidiformis* Tate, 1879: 91.—Cotton, 1949b: 218, pl. 17.*Marginella* (*Faba*) *cassidiformis* Tate, 1878 [sic].—Cossmann, 1899: 85, pl. 4, figs 6, 7.*Urniginella cassidiformis* (Tate, 1878 [sic]).—Laseron, 1957: 287, fig. 23 (type species of *Urniginella* Laseron, 1957 OD).*Distribution.* Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.***Mesoginella hordeacea* (Tate, 1879) comb. nov.***Marginella hordeacea* Tate, 1879: 91.—Cotton, 1947b: 219, pl. 17.*Distribution.* St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.***Mesoginella talla* (Cotton, 1949) comb. nov.***Marginella talla* Cotton, 1949b: 214, 221, pl. 18.*Marginella cassida* Cotton, 1949b: 216, 218, pl. 18.*Gibberula talla* (Cotton, 1949).—Ludbrook, 1958: 80, pl. 3, fig. 14.*Volvarina* (*Sinuginella*) *talla* (Cotton, 1949).—Ludbrook, 1978: 171.*Distribution.* Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene, late Pliocene?***Mesoginella* sp. cf. *M. caducocincta* (May, 1916)***Volvarina* (*Sinuginella*) sp. cf. *V. (S.) caducocincta* (May, 1916).—Ludbrook, 1978: 172, pl. 22, figs 32, 33.*Distribution.* Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.*Ovaginella* Laseron, 1957***Ovaginella mumiformis* Darragh, 2017***Ovaginella mumiformis* Darragh, 2017: 81, Figs 7.28–31.*Distribution.* Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.***Ovaginella arenula* Darragh, 2017***Ovaginella arenula* Darragh, 2017: 82, Figs 7.1, 5, 6, 10, 11.*Distribution.* Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.*Cryptospira* Hinds, 1844***Cryptospira hordeastra* Darragh, 2017***Cryptospira hordeastra* Darragh, 2017: 81, Figs 7.3, 7.4, 7.15, 7.16.*Distribution.* Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.***Cryptospira sagma* (Cotton, 1949) comb. nov.***Marginella sagma* Cotton, 1949b: 216, pl. 18.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.***Cryptospira weymouthensis* (Ludbrook, 1958) comb. nov.***Serrata weymouthensis* Ludbrook, 1958: 83, pl. 3, fig. 20.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.*Dentimargo* Cossmann, 1899***Dentimargo altispira* (May, 1922)***Marginella altispira* May, 1922: 10, pl. 4, fig. 5.—Cotton, 1949b: 219, pl. 17.*Marginella* (*Dentimargo*) *altispira* May, 1922.—Ludbrook, 1967: 68, pl. 2, fig. 31.*Distribution.* Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.***Dentimargo meta* (Cotton, 1949) comb. nov.***Marginella meta* Cotton, 1949b: 213, 219, pl. 18.*Marginella* (*Eratoidea*) *meta* (Cotton, 1949).—Ludbrook, 1958: 79.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.***Dentimargo crista* (Cotton, 1949) comb. nov.***Marginella crista* Cotton, 1949b: 217, pl. 18.*Marginella* (*Eratoidea*) *crista* (Cotton, 1949).—Ludbrook, 1958: 80.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.***Dentimargo kalimnae* (Chapman and Crespin, 1933) comb. nov.***Marginella kalimnae* Chapman and Crespin, 1933: 73, pl. 5, fig. 12.—Cotton, 1949b: 217, pl. 18.*Distribution.* Gippsland Basin: Jemmys Point Formation (type). *Age:* early Pliocene.***Dentimargo lodderae* (May, 1911)***Volvarinella lodderae* (May, 1911).—Ludbrook, 1978: 172, pl. 22, figs 30, 31.

Distribution. Eucla Basin: Roe Calcarenite. Southeastern Australia (living). *Age:* late Pliocene–present.

Eratoidea Weinkauff, 1879

***Eratoidea fusoides* Darragh, 2017**

Eratoidea fusoides Darragh, 2017: 80, Figs 7.23–25, 7.32.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

“*Marginella*”

***Marginella?* sp. A.**

Marginella sp. A. Darragh and Kendrick, 2008: 242, Fig. 3.6.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Marginella?* sp. B.**

Marginella sp. B. Darragh and Kendrick, 2008: 243, Fig. 3.7.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

Incertae sedis

Marginella octoplicata Tenison Woods, 1877: 109.—Cotton, 1949b: 218, pl. 18 (type species of *Topaginella* Laseron, 1957 OD).

Erato? octoplicata (Tenison Woods, 1877).—Tate, 1879: 95.

Erato octoplicata (Tenison Woods, 1877).—Johnston, 1888: pl. 31, fig. 6

Topaginella octoplicata (Tenison Woods, 1877).—Laseron, 1957: 288, fig. 26.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Remarks. Tenison Woods did not give any measurements for this species and the type specimen has not been located. It is possible it is a species of *Archierato* or even a senior synonym of *Willungia tasmanica*.

Superfamily Cancellarioidea

Family Cancellariidae

Scalptia Jousseume, 1887

***Scalptia alveolata* (Tate, 1889) comb. nov.**

Cancellaria alveolata Tate, 1889: 154, pl. 10, figs 7a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Gergovia Cossmann, 1899

***Gergovia laticostata* (Tenison Woods, 1879)**

(Type species of genus OD)

Cancellaria laticostata Tenison Woods, 1879b: 17, pl. 2, fig. 8.—Tate, 1889: 153.

Cancellaria platypleura Tate, 1898: 389 nom. nov. for *Cancellaria laticostata* Tenison Woods, 1879 invalid name change.

Merica (*Gergovia*) *platypleura* (Tate, 1898).—Cossmann, 1899: 16, pl. 1, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Inglisella Finlay, 1924

***Inglisella turriculata* (Tate, 1889)**

Cancellaria turriculata Tate, 1889: 156, pl. 10, fig. 14.

Inglisella turriculata (Tate, 1889).—Ludbrook, 1973: pl. 25, fig. 28.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Inglisella etheridgei* (Johnston, 1880)**

Cancellaria etheridgei Johnston, 1880: 32.—Tate, 1889: 157, pl. 9, fig. 6.

Cancellaria (*Narona*) *etheridgei* Johnston, 1880.—Harris, 1897: 68.

Inglisella etheridgei (Johnston, 1880).—Garrard, 1975: 38, fig. 4.2.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Southeast Australia (living). *Age:* early Miocene, present.

***Inglisella caperata* (Tate, 1889) comb. nov.**

Cancellaria caperata Tate, 1889: 158, pl. 9, fig. 7.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Inglisella capillata* Tate, 1889 comb. nov.**

Cancellaria capillata Tate, 1889: 158, pl. 10, fig. 10.

Cancellaria (*Narona*) *capillata* Tate, 1889.—Harris, 1897: 67.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Pepta Iredale, 1925

***Pepta micra* Tate, 1889 comb. nov.**

Cancellaria micra Tate, 1889: 158, pl. 10, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

Brocchinia Jousseume, 1887

***Brocchinia semicostata* (Tate, 1889) comb. nov.**

Cancellaria semicostata Tate, 1889: 157, pl. 10, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Sydaphera Iredale, 1929

***Sydaphera torquayensis* (Chapman, 1922) comb. nov.**

Cancellaria torquayensis Chapman, 1922: 16, pl. 3, fig. 25.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Sydaphera wannonensis* (Tate, 1889)**

Cancellaria wannonensis Tate, 1889: 156, pl. 8, fig. 11.—Harris, 1897: 66.

Merica wannonensis (Tate, 1889).—Cossmann, 1899: 14, pl. 1, fig. 7.

Aphera (*Sydaphera*) *wannonensis* (Tate, 1889).—Ludbrook, 1958: 77, pl. 6, fig. 6?

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. Age: middle Miocene?, early Pliocene.

***Sydaphera modestina* (Tate, 1889) comb. nov.**

Cancellaria modestina Tate, 1889: 157, pl. 9, fig. 4.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Sydaphera undulata* (G. B. Sowerby II, 1849)**

Sydaphera undulata (G. B. Sowerby II, 1849).—Ludbrook, 1978: 170, pl. 19, figs 10, 11; Ludbrook, 1983: 46, Fig. 3z; Ludbrook, 1984: 236, Fig. 57v.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Eastern, southern and western Australia (living). Age: late Pliocene–present.

***Sydaphera?* sp.**

Cancellaria (*Charcolleria*) sp. Ludbrook, 1978: 168, pl. 22, figs 26, 27.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Cancellaphera Iredale, 1930

***Cancellaphera calvulata* (Tate, 1889) comb. nov.**

Cancellaria calvulata Tate, 1889: 153, pl. 9, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Cancellaphera confirmans* Ludbrook, 1958**

Cancellaphera confirmans Ludbrook, 1958: 78, pl. 6, fig. 5.—Ludbrook, 1973: pl. 28, fig. 98.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Oamaruia Finlay, 1924

***Oamaruia ptychotropis* (Tate, 1889) comb. nov.**

Cancellaria ptychotropis Tate, 1889: 156, pl. 9, fig. 5.

Distribution: St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Oamaruia tatei* (Cossmann, 1899) comb. nov.**

Cancellaria gradata Tate, 1889: 155, pl. 10, fig. 12 non Hoernes, 1856.

Aneurystoma tatei Cossmann, 1899: 24 nom. nov. for *Cancellaria gradata* Tate, 1889 non Hoernes, 1856.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Bonellitia Jousseume, 1887

***Bonellitia?* sp.**

Bonellitia? sp. Stilwell, 2003: 265, Figs 6K, L.

Distribution. Otway Basin: Dilwyn Formation. Age: early Eocene.

***Bonellitia varicifera* (Tenison Woods, 1879) comb. nov.**

Cancellaria varicifera Tenison Woods, 1879a: 231, pl. 21, fig. 12.—Tate, 1889: 155.

Distribution: Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Nevia Jousseume, 1887

***Nevia spirata* (Lamarck, 1822)**

Nevia spirata (Lamarck, 1822).—Ludbrook, 1978: 168, pl. 19, figs 6, 7.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Fusiaphera Habe, 1961

***Fusiaphera epidromiformis* (Tate, 1889) comb. nov.**

Cancellaria epidromiformis Tate, 1889: 154, pl. 8, fig. 9.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Fusiaphera exaltata* (Tate, 1889) comb. nov.**

Cancellaria exaltata Tate, 1889: 154, pl. 8, fig. 10.

Distribution: Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Semitriton Cossmann, 1903

***Semitriton* sp.**

Semitriton sp. Darragh, 2017: 95, Figs 9.23, 24.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Semitriton varicosus* (Tate 1888)**

Cantharus varicosus Tate 1888: 166, pl. 8, fig. 10.

Semitriton varicosus (Tate, 1888).—Beu, 1978: 39, Fig. 3; Beu and Maxwell, 1987: 52.

Distribution. St Vincent Basin. Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Semitriton dennanti* (Tate, 1898)**

(Type species of genus OD)

Plesiotriton dennanti Tate, 1898a: 383, pl. 19, fig. 1

Semitriton dennanti (Tate, 1898).—Cossmann, 1903: 102, pl. 4, fig. 22, pl. 5, fig. 11; Beu, 1978: 39, Fig. 1; Beu and Maxwell, 1987: 52, fig. 2M, pl. 28, figs a–c, e, f.

Distribution. Otway Basin: Glen Aire Clay (type). Age: early Oligocene.

Tritonoharpa Dall, 1908

***Tritonoharpa nodulata* (Tate, 1888)**

Epidromus nodulatus Tate, 1888: 128, pl. 6, fig. 11.

Ratifusus nodulatus (Tate, 1888).—Ludbrook, 1973: pl. 25, fig. 38.

Tritonoharpa nodulata (Tate, 1888).—Beu and Maxwell, 1987: 42, pl. 17, figs a–k, pl. 28, figs d, g–i.

Distribution. St Vincent Basin. Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Fusimorio Sacco, 1896

***Fusimorio variciferus* (Tate, 1888)**

(Type species of *Loxotaphrus* Harris, 1897 OD)

Phos(?) variciferus Tate, 1888: 169, pl. 11, fig. 3.

Phos (*Loxotaphrus*) *variciferus* Tate, 1888.—Harris, 1897: 166, pl. 6, figs 3a, b.

Cyrtochetus (*Loxotaphrus*) *varicifer* [sic] (Tate, 1888).—Cossmann, 1901: 117, pl. 6, figs 13, 14, fig. 32.

Loxotaphrus variciferus (Tate, 1888).—Beu and Maxwell 1987: 50, fig. 2i, pl. 26, figs a–e; Beu and Verhecken, 2000: 2, Fig. 1A; Modica et al, 2011: 115, Figs 1A–C.

Distribution. Otway Basin: Muddy Creek (type). Port Phillip Basin: Gellibrand Formation.

Turehua Marwick, 1943

***Turehua* sp.**

Turehua sp. Darragh, 2017: 95, Figs 9.8, 9.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Unitas Palmer, 1947

***Unitas* sp.**

Unitas sp. Darragh, 2017: 95, fig. 9.25.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Trigonostoma Blainville, 1827

***Trigonostoma* sp.**

Trigonostoma (*Arizelostoma*) sp. Ludbrook, 1978: 169, pl. 19, figs 8, 9.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Superfamily Conoidea

Family Conidae

Hemiconus Cossmann, 1889

***Hemiconus cossmanni* Tate, 1898**

Hemiconus cossmanni Tate, 1898a: 391, pl. 19, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Conasprella Thiele, 1929

***Conasprella extenuata* (Tate, 1890) comb. nov.**

Conus extenuatus Tate, 1890: 199.—Tate, 1892, pl. 8, fig. 1.

Distribution. Murray Basin, Cadell Marl. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation? Age: late Oligocene?–middle Miocene.

***Conasprella hamiltonensis* (Tate, 1890) comb. nov.**

Conus hamiltonensis Tate, 1890: 200.—Tate, 1892: pl. 8, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Conasprella pullulascens* (Tenison Woods, 1879) comb. nov.**

Conus pullulascens Tenison Woods, 1879b: 3, pl. 1, figs 3, 4.

Conus pullulascens [sic] Tenison Woods, 1879.—Tate, 1890: 196; Tate, 1892, pl. 11, fig. 9.

Conus (*Lithoconus*) *pullulascens* [sic] Tenison Woods, 1879.—Harris, 1897: 32, pl. 2, figs 7a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Conasprella adelaidae* (Ludbrook, 1958) comb. nov.**

Conus (*Floraconus*) *adelaidae* Ludbrook, 1958: 98, pl. 6, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Conus Linnaeus, 1758

***Conus?* sp.**

Conus? sp. Darragh and Kendrick, 2008: 244, Fig. 2.22.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Conus?* sp.**

Conus? sp. Darragh, 2017: 88, Figs 8.18, 28, 40, 41.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Conus dennanti* Tate, 1892**

Conus dennanti Tate, 1892, pl. 11, fig. 7.

Conus (*Lithoconus*) *dennanti* Tate, 1892.—Harris, 1897: 33, pl. 2, figs 8a, b; Chapman, 1915c: 6, Figs 1, 2.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Age: late Oligocene–middle Miocene.

***Conus heterospira* Tate, 1890**

Conus heterospira Tate, 1890: 197.—Tate, 1892, pl. 7, figs 5, 5a.

Conus (*Leptoconus*) *heterospira* Tate, 1890.—Harris, 1897: 28.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Jan Juc Formation?, Gellibrand Formation. Age: late Oligocene?–middle Miocene.

***Conus murravianus* Tate, 1890**

Conus murravianus Tate, 1890: 200.—Tate, 1892: pl. 7, fig. 2.

Conus (*Leptoconus*) *murravianus* Tate, 1890.—Harris, 1897: 30, pl. 2, figs 4a, b.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Conus complicatus* Tate, 1890**

Conus complicatus Tate, 1890: 195; Tate, 1892: pl. 8, fig. 8.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Conus ligatus* Tate, 1890**

Conus ligatus Tate, 1890: 196.—Tate, 1892: pl. 7, figs 4, 4a, b, pl. 8, fig. 9.

Conus (Leptoconus) ligatus Tate, 1890: Harris, 1897: 28, pl. 2, figs 2a, b.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Conus cuspidatus* Tate, 1890**

Conus cuspidatus Tate, 1890: 194.—Tate, 1892: pl. 7, figs 1, 1a.

Conus (Lithoconus) cuspidatus Tate, 1890.—Harris, 1897: 32, pl. 2, figs 6a, b.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Conus newtoni* Harris, 1897**

Conus (Leptoconus) newtoni Harris, 1897: 29, pl. 2, figs 3a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Conus ptychodermis* Tate, 1890**

Conus ptychodermis Tate, 1890: 195.—Tate, 1892: pl. 7, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Conus ralphii* Tenison Woods, 1879**

Conus ralphii Tenison Woods, 1879a: 228, pl. 21, fig. 14.—Tate, 1890: 198; Tate, 1892, pl. 7, fig. 6.

Conus (Chelyconus) ralphii Tenison Woods, 1879.—Harris, 1897: 34, pl. 2, figs 9a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Conus acrotholoides* Tate, 1890**

Conus acrotholoides Tate, 1890: 199.—Tate, 1892: pl. 8, fig. 7.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Conus convexus* Harris, 1897**

Conus (Leptoconus) convexus Harris, 1897: 31, pl. 2, figs 5a–d.

Distribution. Port Phillip Basin: Gellibrand Formation? *Age:* middle Miocene.

***Conus anemone* Lamarck, 1810**

Conus (Floraconus) anemone Lamarck, 1810.—Ludbrook, 1978: 180, pl. 21, figs 8, 9.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

***Conus compressus* Sowerby, 1866**

Conus (Floraconus) compressus Sowerby, 1866.—Ludbrook, 1978: 181, pl. 21, figs 10, 11.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Conus petasus* Ludbrook, 1978**

Conus (Leptoconus) petasus Ludbrook, 1978: 182, pl. 21, figs 1–5.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Conus* sp.**

Conus (Floraconus) sp. Ludbrook, 1978: 181, pl. 21, figs 6, 7.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Family Terebridae

Noditerebra Cossmann, 1896

***Noditerebra mutica* (Tate, 1889) comb. nov.**

Terebra mutica Tate, 1889: 162, pl. 10, fig. 1.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Noditerebra geniculata* (Tate, 1886)**

(Type species of the genus OD)

Terebra geniculata Tate, 1886a: 6.—Tate 1889: 161, pl. 9, fig. 8; Harris, 1897: 26, pl. 2, figs 1a, b.

Terebra (Noditerebra) geniculata (Tate, 1886).—Cossmann, 1896: 51, pl. 4, fig. 21.

Noditerebra geniculata (Tate, 1886).—Cotton, 1952a: 44, pl. 3, fig. 7; Garrard, 1976: 179, fig. 8.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. *Age:* late Miocene–early Pliocene.

Duplicaria Dall, 1908

***Duplicaria additoides* (Tenison Woods, 1877) comb. nov.**

Terebra additoides Tenison Woods, 1877: 95.—Tate, 1886a: 5; Tate, 1889: 163.

Terebra praegracilicostata Pritchard, 1896: 104, pl. 2, fig. 9.

Strioterebra (Pervicacia) additoides (Tenison Woods, 1877).—Ludbrook, 1967: 68, pl. 2, fig. 44.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Duplicaria crassum* (Tate, 1886) comb. nov.**

Terebra crassa Tate, 1886a: 7.—Tate, 1889: 161, pl. 9, fig. 9.

Strioterebrum (Pervicacia) crassum (Tate, 1886).—Ludbrook, 1958: 99, pl. 6, fig. 7; Ludbrook, 1978: 184, pl. 23, fig. 1.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). *Age:* middle Miocene–late Pliocene.

***Duplicaria subspectabilis* (Tate, 1889) comb. nov.**

Terebra subspectabilis Tate, 1889: 162, pl. 9, fig. 11.

Strioterebrum (*Pervicacia*) *subspectabilis* (Tate, 1889).—Ludbrook, 1958: 99, pl. 6, fig. 8?

Distribution. St Vincent Basin: Dry Creek Sands? Basin: Grange Burn Formation (type). Age: middle Miocene? Early Pliocene.

***Duplicaria convexiuscula* (Tate, 1889) comb. nov.**

Terebra convexiuscula Tate, 1889: 163, pl. 10, fig. 4.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Duplicaria ustulata* (Deshayes, 1857)**

Distribution. Bass Basin: Memana Formation. Southeastern Australia (living). Age: early Pleistocene–present.

Oxymeris Dall, 1903

***Oxymeris angulosa* (Tate, 1889) comb. nov.**

Terebra simplex Tenison Woods, 1876: 21, fig. 1 non Conrad, 1830.—Tate, 1886a: 5; Tate, 1889: 162.

Terebra angulosa Tate, 1889: 163, pl. 8, fig. 13.

Terebra tenisoni Finlay, 1927: 520 nom nov for *Terebra simplex* Tenison Woods, 1876 non Conrad, 1830.

Hastula (*Nototerebra*) *tenisoni* (Finlay, 1927).—Ludbrook, 1958: 100, pl. 6, fig. 9; Ludbrook, 1967: 68, pl. 4, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Otway Basin: Muddy Creek Formation. Bass Basin: Freestone Cove Sandstone. Age: early Miocene–middle Miocene.

***Oxymeris platyspira* (Tate, 1886) comb. nov.**

Terebra platyspira Tate, 1886a: 6.—Tate, 1889: 159, pl. 8, fig. 12; Cossmann, 1896: 49, fig. 1.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Oxymeris mitrellaeformis* (Tate, 1886) comb. nov.**

Terebra mitrellaeformis Tate, 1886a: 7.—Tate, 1889: 160, pl. 9, fig. 10.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Age: late Pliocene.

Hastula A. and A. Adams, 1853

***Hastula leptospira* (Tate, 1889) comb. nov.**

Terebra leptospira Tate, 1889: 163, pl. 8, figs 15a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Hastula? profunda* (Chapman and Gabriel, 1914) comb. nov.**

Terebra profunda Chapman and Gabriel, 1914: 326, pl. 28, fig. 36.—Chapman, 1916: pl. 71, fig. 36.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Gemmaterebra Cotton, 1952

***Gemmaterebra catenifera* (Tate, 1886)**

(Type species of the genus OD)

Terebra catenifera Tate, 1886a: 5.—Tate, 1889: 160, pl. 8, fig. 14; Marwick, 1924a: 327, pl. 6, fig. 12.

Gemmaterebra catenifera (Tate, 1886).—Cotton, 1952a: 44, pl. 3, fig. 5; Cotton, 1952b: 239.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: early Pliocene.

***Gemmaterebra subcatenifera* (Tate, 1889) comb. nov.**

Terebra subcatenifera Tate, 1889: 160.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene.

***Terebra* sp.**

Terebra (*Dimidacus*) sp. cf. *T. (D.) melamans* (Iredale, 1929).—Ludbrook, 1978: 183, pl. 23, fig. 3.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Family Borsoniidae

Bathytoma Harris and Burrows, 1891

***Bathytoma fontinalis* (Tate, 1894) comb. nov.**

Genotia fontinalis Tate, 1894: 175, pl. 10, fig. 4.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Bathytoma rhomboidalis* (Tenison Woods, 1879)**

Pleurotoma rhomboidalis Tenison Woods, 1879b: 10, pl. 2, fig. 9.

Genotia angustifrons Tate, 1894: 175, pl. 10, figs 7, 7a, b.

Bathytoma angustifrons (Tate, 1894).—Harris, 1897: 49.

Bathytoma rhomboidalis (Tenison Woods, 1879).—Pritchard, 1898: 100.

Micantapex perarmatus Powell, 1944: 14, pl. 7, fig. 1.

Micantapex parri Powell, 1944: 15, pl. 7, fig. 2.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Bathytoma decomposita* (Tate, 1894)**

Genotia decomposita Tate, 1894: 175, pl. 10, fig. 8 [labelled fig. 7c on plate].

Bathytoma decomposita (Tate, 1894).—Harris, 1897: 50.

Micantapex decompositus (Tate, 1894).—Powell, 1944: 14.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Bathytoma pritchardi* (Tate, 1894) comb. nov.**

Genotia pritchardi Tate, 1894: 175, pl. 10, fig. 9.

Distribution: Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation (type). Age: late Miocene–early Pliocene.

Borsonia Bellardi, 1839

***Borsonia eocenica* Long, 1981**

Borsonia tatei eocenica Long, 1981: 35, pl. 5, fig. 18.

? *Borsonia* sp. aff. *B. tatei* Powell, 1944.—Long, 1981: 35, pl. 5, fig. 17.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Borsonia torquayensis* Powell, 1944**

Borsonia torquayensis Powell, 1944: 42, pl. 1, fig. 11.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Borsonia balteata* Tate, 1898**

Borsonia balteata Tate, 1898a: 395, pl. 19, fig. 10.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: early Miocene.

***Borsonia tatei* Powell, 1944**

Borsonia tatei Powell, 1944: 42, pl. 3, fig. 8.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

Cordieria Rouault, 1848

***Cordieria fuscoamnica* Darragh, 2017**

?*Cordieria* sp. a Long, 1981: 33, pl. 5, fig. 11.

Cordieria fuscoamnica Darragh, 2017: 89, Figs 8.9–12, 33, 34.

Distribution. Eucla Basin: Pallinup Formation. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Cordieria?* sp.**

?*Cordieria* sp. b Long, 1981: 34, pl. 5, fig. 13.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Cordieria torquata* Darragh, 2017**

Cordieria torquata Darragh, 2017: 89, Figs 7.9, 12–14.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Cordieria* sp.**

Cordieria sp. cf. *protensa* (Tate, 1898).—Long, 1981: 33, pl. 5, fig. 12.

Distribution. St Vincent Basin: Blanche Point Formation. Age: late Eocene.

***Cordieria otwayensis* (Tate in Cossmann, 1896)**

Borsonia otwayensis Tate in Cossmann, 1896: 98, fig. 17.—Tate, 1898a: 394, pl. 19, fig. 4; Tucker, 1993: 75, Figs 1–6.

Borsonia protensa Tate, 1898a: 394, pl. 19, fig. 6.

Borsonia polycosta Tate, 1898a: 395, pl. 19, fig. 2.

Cordieria protensa (Tate, 1898) [sic].—Long, 1981: 33, pl. 5, figs 14–16.

Distribution. Otway Basin: Glen Aire Clay (type). Age: early Oligocene.

Remarks. Long (1981) synonymised the three species, choosing *B. protensa* as the senior synonym based on page priority, but Tucker (1993) pointed out that the name *B. otwayensis* was available from 1896 and hence the senior synonym.

Filodrillia Hedley, 1922

***Filodrillia peramoena* (Ludbrook, 1941)**

Etrema peramoena Ludbrook, 1941: 99, pl. 5, fig. 23.

Filodrillia peramoena (Ludbrook, 1941).—Powell, 1944: 56; Ludbrook, 1958: 95.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Filodrillia ludbrookae* Powell, 1944**

Filodrillia ludbrookae Powell, 1944: 57, pl. 5, fig. 9.—Ludbrook, 1958: 95, pl. 5, fig. 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Filodrillia turricula* Powell, 1944**

Filodrillia turricula Powell, 1944: 56, pl. 5, fig. 8.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Maoritomella Powell, 1942

***Maoritomella equispiralis* Powell, 1944**

Maoritomella equispiralis Powell, 1944: 39, pl. 2, fig. 16.

Distribution. Port Phillip Basin: Jan Juc Formation. Age: late Oligocene.

***Maoritomella nutans* Powell, 1944**

Maoritomella nutans Powell, 1944: 39, pl. 2, fig. 15.—Ludbrook, 1958: 89, pl. 5, fig. 6.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Maoritomella balcombensis* Powell, 1944**

Maoritomella balcombensis Powell, 1944: 39, pl. 4, fig. 12.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Microdrillia T. L. Casey, 1903

***Microdrillia steiroides* Chapman and Crespin, 1928**

Filodrillia steiroides Chapman and Crespin, 1928: 121, pl. 9, fig. 57.

Microdrillia steiroides (Chapman [sic], 1928).—Powell, 1944: 30.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Tomopleura T. Casey, 1903***Tomopleura ludbrookae* Powell, 1944**

Tomopleura ludbrookae Powell, 1944: 38, pl. 2, fig. 14.—Ludbrook, 1958: 89, pl. 5, fig. 5; Ludbrook, 1978: 176, pl. 22, figs 10, 11.

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene, late Pliocene?

***Tomopleura dilectoides* (Chapman and Gabriel, 1914)**

Pleurotoma (*Drillia*) *dilectoides* Chapman and Gabriel, 1914: 327, pl. 28, fig. 37.—Chapman, 1916: pl. 71, fig. 37.

Tomopleura dilectoides (Chapman and Gabriel, 1914).—Powell, 1944: 38.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* early Pliocene.

Zemacies Finlay, 1926***Zemacies procerior* Darragh, 1997**

Zemacies procerior Darragh, 1997: 81, Figs 5O, P, U.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Zemacies inexpectata* Powell, 1944**

Zemacies inexpectata Powell, 1944: 21, pl. 7, fig. 8.

Distribution. Port Phillip Basin: Jan Juc Formation. *Age:* late Oligocene.

***Zemacies conspicua* (May, 1922)**

Turris conspicua May, 1922: 11, pl. 4, fig. 7.

Zemacies conspicua (May, 1922).—Ludbrook, 1967: 68, pl. 4, figs 13, 14.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Family Clathurellidae

Etrema Hedley, 1918

***Etrema* sp.**

Etrema sp. Long, 1981: 45, pl. 7, fig. 7.

Distribution. Otway Basin: Glen Aire Clay. *Age:* early Oligocene.

***Etrema janjukiensis* Powell, 1944**

Etrema janjukiensis Powell, 1944: 52, pl. 5, fig. 1.

Distribution. Port Phillip Basin: Puebla Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Etrema weymouthensis* Ludbrook, 1958**

Etrema weymouthensis Ludbrook, 1958: 94, pl. 5, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Etrema mangeliodes* (Tate, 1888) comb. nov.**

Trophon mangelioides Tate, 1888: 112, pl. 10, fig. 11.

Distribution. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Etrema bidens* (Tenison Woods, 1879)**

Mangelia bidens Tenison Woods, 1879a: 227, pl. 20, fig. 2.

Clathurella bidens (Tenison Woods, 1879).—Harris, 1897: 59.

Etrema bidens (Tenison Woods, 1879).—Powell, 1944: 53.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Etrema obdita* (Harris, 1897)**

Clathurella obdita Harris, 1897: 59, pl. 3, figs 11a, b.

Etrema obdita (Harris, 1897).—Powell, 1944: 54.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Etrema praespurca* Chapman and Crespin, 1928**

Etrema praespurca Chapman and Crespin, 1928: 122, pl. 9, fig. 60.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Etrema pseudoelegans* Chapman and Crespin, 1928**

Etrema pseudoelegans Chapman and Crespin, 1928: 123, pl. 9, fig. 61.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Etrema turrata* Chapple, 1941**

Etrema turrata Chapple, 1941: 120, pl. 14, fig. 3.

Etrema exsculpta Powell, 1944: 54, pl. 5, fig. 4.—?Ludbrook, 1978: 178, pl. 22, figs 18, 19.

Distribution. Eucla Basin: Roe Calcarenite? Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene, late Pliocene?

***Etrema morningtonensis* Chapple, 1934**

Etrema morningtonensis Chapple, 1934: 164, pl. 19, figs 4a, b.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Etrema granolirata* Powell, 1944**

Etrema granolirata Powell, 1944: 52, pl. 5, fig. 3.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Etrema gippslandensis* Powell, 1944**

Etrema gippslandensis Powell, 1944: 54, pl. 5, fig. 2.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene.

***Etrema mirabilis* Powell, 1944**

Etrema mirabilis Powell, 1944: 54, pl. 5, fig. 5.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene.

Remarks. The type specimen, labelled CR, does not come from Curdies River as stated by Powell. It was one of several specimens stolen from various collections by H. J. Finlay during a visit to Australia. Specimens from the Dennant Collection were loaned by the National Museum of Victoria to F. A. Singleton for a revision of the turrids and many specimens labelled Gippsland Lakes, and this specimen labelled CR, were taken. CR stands for Christopher Ritchie, a farmer, who had a property near Lakes Entrance on the Mississippi Creek from which John Dennant collected specimens.

***Etrema alliterata* (Hedley, 1915)**

Etrema alliterata (Hedley, 1915).—Chapman and Crespin, 1933: 74, pl. 5, fig. 14.

Distribution. Gippsland Basin: Jemmys Point Formation. Eastern Australia (living). *Age:* late Miocene, present.

Etrema Powell, 1942

***Etrema contigua* Powell, 1944**

Etrema contigua Powell, 1944: 55, pl. 5, fig. 6.—Ludbrook, 1958: 94, pl. 5, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Etrema opposita* Powell, 1944**

Etrema opposita Powell, 1944: 55, pl. 5, fig. 7.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Etrema* sp. cf. *E. elegans* Hedley, 1922**

Etrema sp. cf. *E. elegans* Hedley, 1922.—Ludbrook, 1978: 177, pl. 22, figs 16, 17.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Family Clavatulidae

Makiyamaia Kuroda, 1961

***Makiyamaia victoriae* Long, 1981**

Makiyamaia victoriae Long, 1981: 24, pl. 4, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

Family Cochlespiridae

Apiotoma Cossmann, 1889

***Apiotoma?* *wilkinsoni* Long, 1981**

Apiotoma? *wilkinsoni* Long, 1981: 25, pl. 4, figs 9–11.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

***Apiotoma* sp.**

Apiotoma sp. Long, 1981: 25, pl. 4, figs 13–15; Darragh, 2017: 90.

Distribution. Eucla Basin: Pallinup Formation. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Apiotoma bassi* Pritchard, 1904**

Apiotoma bassi Pritchard, 1904: 328, pl. 19, fig. 11.—Powell, 1969: 347; Long, 1981: 25, pl. 4, fig. 12.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Apiotoma janjukiensis* (Chapple, 1934)**

Turris janjukiensis Chapple, 1934: 163, pl. 19, figs 2a, b.

Apiotoma janjukiensis (Chapple, 1934).—Powell, 1944: 20; Powell, 1969: 349.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Apiotoma pritchardi* Powell, 1944**

Apiotoma pritchardi Powell, 1944: 20, pl. 3, fig. 7.—Powell, 1969: 346, pl. 265, fig. 2.

Distribution. Port Phillip Basin: Jan Juc Formation, Puebla Formation (type). *Age:* late Oligocene–early Miocene.

***Apiotoma granti* (Pritchard, 1904)**

Pleurotoma granti Pritchard, 1904: 336, pl. 19, fig. 3.

Apiotoma granti (Pritchard, 1904).—Powell, 1944: 21; Powell, 1969: 349.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Apiotoma balcombensis* Pritchard, 1944**

Apiotoma balcombensis Pritchard, 1944: 20, pl. 7, fig. 10.—Powell, 1969: 346, pl. 265, fig. 3.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Apiotoma chapplei* Pritchard, 1944**

Apiotoma chapplei Pritchard, 1944: 21, pl. 3, fig. 6.—Powell, 1969: 348, pl. 265, fig. 4.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Apiotoma euclensis* Ludbrook, 1978**

Apiotoma euclensis Ludbrook, 1978: 173, pl. 22, figs 22, 23.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Cochlespira Conrad, 1865

***Cochlespira* sp.**

Cochlespira sp. Darragh and Kendrick, 2008: 241, Fig. 3.14.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Cochlespira semiplana* (Powell, 1944)**

Coronasyrinx semiplana Powell, 1944: 22, pl. 1, fig. 2.

Cochlespira semiplana (Powell, 1944).—Powell, 1969: 402, pl. 314, fig. 2; Long, 1981: 29, pl. 5, fig. 6.

Distribution. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Cochlespira venusta* (Powell, 1944)**

(Type species of *Coronasyrinx* Powell, 1944 OD)

Coronasyrinx venusta Powell, 1944: 22, pl. 1, fig. 1, Fig. 3.

Cochlespira venusta (Powell, 1944).—Powell, 1966: pl. 5, fig. 5; Powell, 1969: 401, pl. 302, fig. 6, pl. 304, fig. D.

Distribution. Port Phillip Basin: Puebla Formation, Gellibrand Formation (type). *Age:* early–middle Miocene.

Family Conorbidae
Conorbis Swainson, 1840

***Conorbis* sp.**

Conorbis sp. Darragh and Kendrick, 2008: 244, Figs 3.21–22.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Conorbis notialis* Darragh, 2017**

Conorbis notialis Darragh, 2017: 90, Figs 9.26–29.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

***Conorbis atractoides* (Tate, 1890)**

Conus (*Conorbis*) *atractoides* Tate, 1890: 200; Tate, 1892: pl. 9, fig. 7.

Conorbis atractoides Tate, 1890.—Long, 1981: 42, pl. 6, fig. 14.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Conorbis otwayensis* Long, 1981**

Conorbis atractoides otwayensis Long, 1981: 42, pl. 6, fig. 15.

Distribution. Otway Basin: Glen Aire Clay (type).

Age: early Oligocene.

Family Drilliidae
Drillia Gray, 1838

***Drillia? stiza* Tenison Woods, 1879**

Drillia stiza Tenison Woods, 1879b: 12, pl. 2, fig. 11.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Hauturua Powell, 1942

***Hauturua exuta* Powell, 1944**

Syntomodrillia (*Hauturua*) *exuta* Powell, 1944: 34, pl. 2, fig. 13.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* early Miocene.

Splendrillia Hedley, 1922

***Splendrillia?* sp.**

Splendrillia? sp. Darragh, 2017: 91, Figs 9.19–20.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Splendrillia* sp**

Splendrillia (?*Hauturua*) sp. Long, 1981: 38, pl. 6, fig. 7.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Splendrillia?* sp.**

?*Splendrillia* Long, 1981: 37, pl. 6, figs 4, 5.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Splendrillia hughesi* Long, 1981**

Splendrillia hughesi Long, 1981: 37, pl. 6, fig. 6.

Distribution. Otway Basin: Glen Aire Clay (type).

Age: early Oligocene.

***Splendrillia trucidata* (Ludbrook, 1941)**

Austrodrillia trucidata Ludbrook, 1941: 98, pl. 5, fig. 20.

Splendrillia trucidata (Ludbrook, 1941).—Powell, 1944: 31; Ludbrook, 1958: 87.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Splendrillia adelaidae* Powell, 1944**

Splendrillia adelaidae Powell, 1944: 31, pl. 2, fig. 6.—Ludbrook, 1958: 88.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Splendrillia trevori* (Tenison Woods, 1879)**

Drillia trevori Tenison Woods, 1879a: 227, pl. 20, fig. 4.

Splendrillia trevori (Tenison Woods, 1879).—Powell, 1944: 31.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

Age: middle Miocene.

***Splendrillia formosa* Powell, 1944**

Splendrillia formosa Powell, 1944: 31, pl. 2, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Syntomodrillia Woodring, 1928

***Syntomodrillia sandleroides* (Tenison Woods, 1877)**

Pleurotoma sandleroides Tenison Woods, 1877: 104.—May, 1919: 72, pl. 10, fig. 13.

Syntomodrillia sandleroides (Tenison Woods, 1877).—Powell, 1944: 32.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Syntomodrillia circinata* Powell, 1944**

Syntomodrillia circinata Powell, 1944: 33, pl. 2, fig. 12.

Distribution. Port Phillip Basin: Puebla Formation (type). *Age:* early Miocene.

***Syntomodrillia venusta* Powell, 1944**

Syntomodrillia venusta Powell, 1944: 33, pl. 2, fig. 7.

Syntomodrillia complexa Powell, 1944: 33, pl. 2, fig. 8.

Syntomodrillia compta Powell, 1944: 33, pl. 2, fig. 9.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Syntomodrillia obsoleta* Powell, 1944**

Syntomodrillia obsoleta Powell, 1944: 33, pl. 2, fig. 11.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Syntomodrillia decemcostata* (Ludbrook, 1941)**

Austrodrillia decemcostata Ludbrook, 1941: 98: pl. 5, fig. 19.

Syntomodrillia decemcostata (Ludbrook, 1941).—Powell, 1944: 34; Ludbrook, 1958: 88; ?Ludbrook, 1978: 176, pl. 22, figs 8, 9.

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene, late Pliocene?

***Syntomodrillia ludbrookae* Powell, 1944**

Syntomodrillia ludbrookae Powell, 1944: 34, pl. 2, fig. 10.—Ludbrook, 1958: 88, pl. 5, fig. 4.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Family Horaiclavidae

Anacithara Hedley, 1922

***Anacithara janjukiensis* Powell, 1944**

Anacithara janjukiensis Powell, 1944: 58, pl. 5, fig. 10.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

Austrocarina Laseron, 1954

***Austrocarina? unicingulata* Ludbrook, 1978**

Austrocarina? unicingulata Ludbrook, 1978: 180, pl. 22, figs 20, 21, pl. 24, fig. 9.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Epideira Hedley, 1918

***Epideira suppressa* Finlay, 1927**

Pleurotoma selwyni laevis Pritchard, 1904: 328, pl. 19, fig. 11 non Hutton, 1873.

Epideira selwyni suppressa Finlay, 1927: 516.

Epidirona suppressa (Finlay, 1927).—Powell, 1944: 16.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene

***Epideira adelaidensis* (Ludbrook, 1941)**

Bathytoma adelaidensis Ludbrook, 1941: 97, pl. 5, fig. 17.

Epidirona adelaidensis (Ludbrook, 1941).—Powell, 1944: 16; Ludbrook, 1958: 85.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Epideira powelli* (Ludbrook, 1958)**

Epidirona powelli Ludbrook, 1958: 86, pl. 5, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Epideira vardoni* (Tate, 1899)**

Surcula vardoni Tate, 1899a: 108, pl. 1, figs 3a, b.

Epidirona vardoni (Tate, 1899).—Powell, 1944: 15.

Distribution. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene.

***Epideira singularis* (Ludbrook, 1978) comb. nov.**

Liratomina? singularis Ludbrook, 1978: 174, pl. 22, figs 1–4.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

***Epideira* sp.**

Epidirona sp. Ludbrook, 1978: 176, pl. 22, figs 12, 13.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Mauidrillia Powell, 1942

***Mauidrillia otwayensis* Stilwell, 2003**

Mauidrillia otwayensis Stilwell, 2003: 264, Figs 6D,E.

Distribution. Otway Basin: Dilwyn Formation (type). *Age:* early Eocene.

***Mauidrillia aldingensis* Powell, 1944**

Mauidrillia aldingensis Powell, 1944: 36, pl. 4, fig. 6.—Long, 1981: 38, pl. 6, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Mauidrillia* sp. cf. *M. aldingensis* Powell, 1944**

Mauidrillia sp. cf. *M. aldingensis* Powell, 1944.—Darragh and Kendrick, 2008: 242, Fig. 3.4.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

***Mauidrillia secta* Powell, 1944**

Mauidrillia secta Powell, 1944: 37, pl. 4, fig. 10.

Mauidrillia secta Powell, 1944: Long, 1981: 39, pl. 6, figs 9, 10.

Mauidrillia sp. cf. *secta* Powell, 1944.—Long, 1981: 40, pl. 6, fig. 12.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Mauidrillia otwayensis* Long, 1981**

Mauidrillia secta otwayensis Long, 1981: 40, pl. 6, fig. 11.

Distribution. Otway Basin: Glen Aire Clay (type). Age: early Oligocene.

***Mauidrillia torquayensis* Powell, 1944**

Mauidrillia torquayensis Powell, 1944: 35, pl. 4, fig. 7.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Mauidrillia pullulascens* (Tenison Woods, 1877)**

Pleurotoma pullulascens Tenison Woods, 1877: 104.—May, 1919: 72, pl. 10, fig. 12.

Mauidrillia pullulascens (Tenison Woods, 1877).—Powell, 1944: 35.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Mauidrillia consutilis* (Tenison Woods, 1879)**

Pleurotoma consutilis Tenison Woods, 1879b: 9, pl. 2, fig. 5.—Harris, 1897: 41.

Mauidrillia consutilis (Tenison Woods, 1879).—Powell, 1944: 36.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Mauidrillia turrita* (Chapple, 1941) comb. nov.**

Filodrillia turrita Chapple, 1941: 121, pl. 14, fig. 4.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Mauidrillia partinoda* Powell, 1944**

Mauidrillia partinoda Powell, 1944: 35, pl. 4, fig. 5.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Mauidrillia trispiralis* Powell, 1944**

Mauidrillia trispiralis Powell, 1944: 36, pl. 4, fig. 9.

Distribution. Otway Basin: Gellibrand Formation (type). Age: middle Miocene.

***Mauidrillia serrulata* Powell, 1944**

Mauidrillia serrulata Powell, 1944: 36, pl. 4, fig. 8.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Mauidrillia intumescens* Powell, 1944**

Mauidrillia intumescens Powell, 1944: 37, pl. 4, fig. 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene.

Pseudexomilus Powell, 1944

***Pseudexomilus caelatus* Powell, 1944**

(Type species of the genus OD)

Pseudexomilus caelatus Powell, 1944: 62, pl. 6, fig. 12.—Ludbrook, 1958: 98, pl. 5, fig. 20.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Family Mangeliidae

Eucithera P. Fischer, 1883

***Eucithara glabra* (Harris, 1897)**

Mangilia (*Cythara*) *glabra* Harris, 1897: 58, pl. 3, figs 10a, b.

Eucithara glabra (Harris, 1897).—Powell, 1944: 58.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Guraleus Hedley, 1918

***Guraleus eocenicus* Long, 1981**

Guraleus eocenicus Long, 1981: 43, pl. 7, fig. 2.

Guraleus sp. cf. *eocenicus* Long, 1981: 43, pl. 7, fig. 1.

Distribution. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation (type), Glen Aire Clay. Age: late Eocene—early Oligocene.

***Guraleus janjukiensis* Powell, 1944**

Guraleus janjukiensis Powell, 1944: 47, pl. 4, fig. 2.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

***Guraleus chapplei* Powell, 1944**

Guraleus chapplei Powell, 1944: 47, pl. 4, fig. 1.

Guraleus (*Guraleus*) *chapplei* Powell, 1944.—Ludbrook, 1958: 90, pl. 5, fig. 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Guraleus ludbrookae* Powell, 1944**

Guraleus ludbrookae Powell, 1944: 47, pl. 4, fig. 3.

Guraleus (*Guraleus*) *ludbrookae* Powell, 1944.—Ludbrook, 1958: 90, pl. 5, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Guraleus subnitidus* Ludbrook, 1941**

Guraleus subnitidus Ludbrook, 1941: 99, pl. 5, fig. 22.

Guraleus (*Euguraleus*) *subnitidus* Ludbrook, 1941: Ludbrook, 1958: 90.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Guraleus adelaidensis* Powell, 1944**

Guraleus adelaidensis Powell, 1944: 49, pl. 6, fig. 13.

Guraleus (*Euguraleus*) *adelaidensis* Powell, 1944.—Ludbrook, 1958: 91, pl. 5, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Guraleus powelli* Ludbrook, 1958**

Guraleus (Euguraleus) powelli Ludbrook, 1958: 91, pl. 5, fig. 9.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Guraleus harrisi* Powell, 1944**

Guraleus harrisi Powell, 1944: 48, pl. 6, fig. 15.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Guraleus volutiformis* Chapman and Crespin, 1928**

Guraleus volutiformis Chapman and Crespin, 1928: 123, pl. 9, fig. 62.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Guraleus singletoni* Powell, 1944**

Guraleus singletoni Powell, 1944: 48, pl. 6, fig. 14.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Heterocithara Hedley, 1922

***Heterocithara miocenica* Powell, 1944**

Heterocithara miocenica Powell, 1944: 57, pl. 4, fig. 11.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Macteola Hedley, 1918

***Macteola eocenica* Long, 1981**

Macteola eocenica Long, 1981: 45, pl. 7, fig. 6.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

Neoguraleus Powell, 1939

***Neoguraleus filiferus* Darragh, 2017**

Neoguraleus filiferus Darragh, 2017: 91, Figs 9.5–7.

Distribution. Eucla Basin: Pallinup Formation (type). *Age:* late Eocene.

Paraguraleus Powell, 1944

***Paraguraleus?* sp. a**

?*Antiguraleus* sp. a Long, 1981: 44, pl. 7, fig. 5.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Paraguraleus?* sp. c**

?*Antiguraleus* sp. c Long, 1981: 44, pl. 7, fig. 4.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Paraguraleus* sp. b**

Antiguraleus sp. b Long, 1981: 44, pl. 7, fig. 3.

Distribution. Otway Basin: Glen Aire Clay. *Age:* early Oligocene.

***Paraguraleus finlayi* (Powell, 1944)**

Guraleus (Paraguraleus) finlayi Powell, 1944: 50, pl. 5, fig. 12.

Distribution. Port Phillip Basin: Puebla Formation (type). *Age:* early Miocene.

***Paraguraleus abbreviatus* (Powell, 1944)**

Guraleus (Paraguraleus) abbreviatus Powell, 1944: 50, pl. 5, fig. 11.—Ludbrook, 1958: 92, pl. 5, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Paraguraleus incisus* (Powell, 1944)**

Guraleus (Paraguraleus) incisus Powell, 1944: 51, pl. 5, fig. 14.—Ludbrook, 1958: 92, pl. 5, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Paraguraleus obsoletus* (Harris, 1897)**

Mangilia obsoleta Harris, 1897: 57, pl. 3, figs 9a, b.

? *Guraleus (Paraguraleus) obsoletus* (Harris, 1897).—Powell, 1944: 51.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Paraguraleus balcombensis* (Powell, 1944)**

(Type species of genus OD)

Guraleus (Paraguraleus) balcombensis Powell, 1944: 50, pl. 5, fig. 13, Fig 5.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Paraguraleus* sp. cf. *P. incisus* (Powell, 1944)**

Antiguraleus sp. cf. *A. incisus* (Powell, 1944).—Ludbrook, 1978: 177, pl. 22, figs 14, 15.

Distribution. Eucla Basin: Roe Calcarenite. *Age:* late Pliocene.

Family Mitromorphidae

Mitromorpha Carpenter, 1865

***Mitromorpha?* sp.**

?*Mitrolumna* sp. Long, 1981: 36, pl. 6, fig. 1.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Mitromorpha daphnelloides* (Tenison Woods, 1879)**

Mitra daphnelloides Tenison Woods, 1879b: 7, pl. 2, fig. 3.

Mitromorpha daphnelloides (Tenison Woods, 1879).—Tate, 1898a: 397.

Mitrithara daphnelloides (Tenison Woods, 1879).—Cernohorsky, 1972: 211.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Mitromorpha megale* (Chapple, 1941) comb. nov.**

Mitriothara megale Chapple, 1941: 121, pl. 14, fig. 2.

Distribution. Otway Basin: Gellibrand Formation (type). Age: middle Miocene.

***Mitromorpha fenestrata* (Powell, 1944) comb. nov.**

Mitriothara fenestrata Powell, 1944: 44, pl. 1, fig. 14.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Scrinium Hedley, 1922

***Scrinium haroldi* Powell, 1944**

Scrinium haroldi Powell, 1944: 45, pl. 1, fig. 10.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

***Scrinium duplicatum* Powell, 1944**

Scrinium duplicatum Powell, 1944: 45, pl. 1, fig. 8.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

***Scrinium nanum* Powell, 1944**

Scrinium nanum Powell, 1944: 45, pl. 1, fig. 9.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

***Scrinium hemiothone* (Tenison Woods, 1879)**

Columbella hemiothone Tenison Woods, 1879b: 14, pl. 3, fig. 8.

Buchozia hemiothone (Tate) [sic].—Cossmann, 1896: 92, pl. 6, figs 8, 9.

Scrinium hemiothone (Tenison Woods, 1879).—Powell, 1944: 46.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Family Pseudomelatomidae

Comitas Finlay, 1926

***Comitas silicicola* Darragh, 2017**

Comitas silicicola Darragh, 2017: 92, Figs 9.12–14.

Distribution. Eucla Basin: Pallinup Formation (type). Age: late Eocene.

***Comitas?* sp.**

Comitas? Darragh, 2017: 94, Figs 9.15, 16.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Comitas aldingensis* Powell, 1944**

Comitas (*Carinocomitas*) *aldingensis* Powell, 1944: 18, pl. 1, fig. 7.

Comitas aldingensis Powell, 1944.—Powell, 1969: 292, pl. 222, fig. 5; Long, 1981: 22, pl. 4, figs 2, 3; Darragh, 2017: 94, Figs 9.17, 18.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Comitas?* sp.**

?*Comitas* sp. Long, 1981: 21, pl. 4, fig. 1.

Distribution. Otway Basin: Browns Creek Formation. Age: late Eocene.

***Comitas cudmorei* Long, 1981**

Comitas wynyardensis cudmorei Long, 1981: 22, pl. 4, figs 4, 5.

Distribution. Otway Basin. Glen Aire Clay (type). Age: early Oligocene.

***Comitas torquayensis* Powell, 1944**

Comitas torquayensis Powell, 1944: 17, pl. 3, fig. 9.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Comitas pseudoclarae* Powell, 1944**

Comitas pseudoclarae Powell, 1944: 18, pl. 1, fig. 6.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Comitas crenularoides* (Pritchard, 1896)**

Drillia crenularoides Pritchard, 1896: 110, pl. 3, figs 6, 7.

Comitas crenularoides (Pritchard, 1896).—Powell, 1944: 17.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Comitas wynyardensis* (Pritchard, 1896)**

Pleurotoma wynyardensis Pritchard, 1896: 109, pl. 2, figs 12, 13.

Turris altispira May, 1922: 12, pl. 4, fig. 8.

Comitas wynyardensis (Pritchard, 1896).—Powell, 1944: 17.

Apiotoma altispira (May, 1922).—Ludbrook, 1967: 69, pl. 4, figs 7, 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Comitas clarae* (Tenison Woods, 1879)**

(Type species of *Carinacomitas* Powell, 1942 OD)

Pleurotoma clarae Tenison Woods, 1879b: 11, pl. 3, figs 11, 12.

Comitas (*Carinocomitas*) *clarae* (Tenison Woods, 1879).—Powell, 1942: 60, Fig. C3.

Comitas clarae (Tenison Woods, 1879).—Powell, 1969: 292, pl. 212, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Comitas salebrosa* (Harris, 1897)**

Pleurotoma salebrosa Harris, 1897: 42, pl. 3, figs 3a–d.

Comitas salebrosa (Harris, 1897).—Powell, 1944: 18.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Crassispira Swainson, 1840

***Crassispira harpularia* (Desmoulins, 1842)**

Splendrillia harpularia (Desmoulins, 1842).—Ludbrook, 1978: 174, pl. 22, figs 5, 6.

Splendrillia sp. cf. *S. harpularia* (Desmoulins, 1842).—Ludbrook, 1978: 175, pl. 22, fig. 7.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Inquisitor Hedley, 1918

***Inquisitor detritus* Ludbrook, 1941**

Inquisitor detritus Ludbrook, 1941: 98, pl. 5, fig. 18.—Powell, 1941: 27; Ludbrook, 1958: 87.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Inquisitor oblongulus* (Harris, 1897)**

Drillia oblongula Harris, 1897: 56, pl. 3, figs 7a, b.

Pseudinquisitor oblongulus (Harris, 1897).—Powell, 1944: 28.

Inquisitor oblongulus (Harris, 1897).—Powell, 1966: 80.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Inquisitor trinervis* (Powell, 1944)**

Pseudinquisitor trinervis Powell, 1944: 28, pl. 3, fig. 3.

Inquisitor trinervis (Powell, 1944).—Powell, 1966: 80.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene.

***Inquisitor gippslandicus* (Powell, 1944)**

Pseudinquisitor gippslandicus Powell, 1944: 28, pl. 3, fig. 5.

Inquisitor gippslandicus (Powell, 1944).—Powell, 1966: 80.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene?, early Pliocene?

***Inquisitor scabriculus* (Powell, 1944)**

Pseudinquisitor scabriculus Powell, 1944: 29, pl. 3, fig. 2.

Inquisitor scabriculus (Powell, 1944).—Powell, 1966: 80.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene?, early Pliocene?

***Inquisitor delicatulus* (Powell, 1944)**

Pseudinquisitor delicatulus Powell, 1944: 29, pl. 3, fig. 4.

Inquisitor delicatulus (Powell, 1944).—Powell, 1966: 80.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene?, early Pliocene?

Integradrillia Powell, 1942

***Integradrillia integra* (Tenison Woods, 1879)**

(Type species of the genus OD)

Drillia integra Tenison Woods, 1879b: 11, pl. 3, fig. 4.

Integradrillia integra (Tenison Woods, 1879).—Powell, 1942: 94, Fig. B16; Powell, 1966: 88, pl. 14, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Vixinquisitor Powell, 1942

***Vixinquisitor vixumbilicata* (Harris, 1897)**

(Type species of the genus OD)

Drillia vixumbilicata Harris, 1897: 56, pl. 3, figs 8a, b.

Vixinquisitor vixumbilicata (Harris, 1897).—Powell, 1942: 95, Fig. C19; Powell, 1944: 29; Powell, 1966: 88, pl. 14, fig. 3.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Family Raphitomidae

Asperdaphne Hedley, 1922

***Asperdaphne* sp.**

Asperdaphne sp. Darragh, 2017: 94, Figs 9.30–31.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Asperdaphne* sp. a**

Asperdaphne sp. a Long, 1981: 46, pl. 7, fig. 8.

Distribution. Otway Basin: Browns Creek Clay. Formation. Age: late Eocene.

***Asperdaphne* sp. b**

Asperdaphne sp. b Long, 1981: 46, pl. 7, fig. 9.

Distribution. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Clay. Formation, Glen Aire Clay. Age: late Eocene–early Oligocene.

***Asperdaphne exsculpta* Powell, 1944**

Asperdaphne (*Aspertilla*) *exsculpta* Powell, 1944: 60, pl. 6, fig. 9, Fig. 6.—Ludbrook, 1958: 96, pl. 5, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Asperdaphne balcombensis* Powell, 1944**

Asperdaphne balcombensis Powell, 1944: 59, pl. 6, fig. 7.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Asperdaphne contigua* Powell, 1944**

Asperdaphne contigua Powell, 1944: 60, pl. 6, fig. 8.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Buccinaria Kittl, 1887

***Buccinaria granulosa* (Chapman and Crespin, 1933) comb. nov.**

Daphnella granulosa Chapman and Crespin, 1933: 73, pl. 5, fig. 13.

Distribution. Gippsland Basin: Rose Hill Marl, Jemmys Point Formation (type). Age: late Miocene–early Pliocene?

Daphnella Hinds, 1844

***Daphnella cuspidata* (Chapple, 1934)**

Guraleus cuspidatus Chapple, 1934: 164, pl. 19, figs 5a, b.

Daphnella chapplei Powell, 1944: 59, pl. 6, fig. 6.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Exomilus Hedley, 1918

***Exomilus nodulosus* Ludbrook, 1978**

Exomilus nodulosus Ludbrook, 1978: 179, pl. 24, fig. 12.

Distribution. Roe Calcarenite (type). Age: late Pliocene.

***Exomilus telescopialis* (Verco, 1896)**

Exomilus telescopialis (Verco, 1896).—Ludbrook, 1978: 179, pl. 24, fig. 10.

Distribution. Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Nepotilla Hedley, 1918

***Nepotilla powelli* Ludbrook, 1958**

Nepotilla powelli Ludbrook, 1958: 96, pl. 6, fig. 22.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Nepotilla* sp.**

Nepotilla sp. Ludbrook, 1978: 178, pl. 24, fig. 11.

Distribution. Eucla Basin: Roe Calcarenite. Age: late Pliocene.

Teleochilus G. F. Harris, 1897

***Teleochilus comptus* Powell, 1944**

Teleochilus comptus Powell, 1944: 66, pl. 6, fig. 3.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

***Teleochilus gracillimus* (Tenison Woods, 1877)**

(Type species of the genus OD)

Daphnella gracillima Tenison Woods, 1877: 106.

Teleochilus gracillimus (Tenison Woods, 1877).—Powell, 1944: 64; Ludbrook, 1967: 69, pl. 4, figs 11, 12.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Teleochilus denseliratus* Powell, 1944**

Daphnella gracillima Tenison Woods, 1877.—Tenison Woods, 1879a: 226, pl. 20, fig. 10 non Tenison Woods, 1877.

Teleochilus gracillimum (Tenison Woods, 1877).—Harris, 1897: 65, pl. 3, figs 12a–d non Tenison Woods.

Bela (*Daphnobela*) *gracillima* (Tenison Woods, 1877).—Cossmann, 1896: 94, fig. 15 non Tenison Woods.

Bela (*Teleochilus*) *gracillima* (Tenison Woods, 1877).—Cossmann, 1899: 191, pl. 8, fig. 4 non Tenison Woods.

Teleochilus denseliratus Powell, 1944: 64, pl. 3, fig. 10; Powell, 1966: 138, pl. 22, figs 16, 17.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Teleochilus balcombensis* Powell, 1944**

Teleochilus balcombensis Powell, 1944: 65, pl. 6, fig. 1.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Teleochilus duplicatus* Powell, 1944**

Teleochilus duplicatus Powell, 1944: 65, pl. 6, fig. 2.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Vepracula Melvill, 1917

***Vepracula? adelaidensis* Powell, 1944**

?*Vepracula adelaidensis* Powell, 1944: 61, pl. 6, fig. 11.—Ludbrook, 1958: 97, pl. 5, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Family Turridae

Epidirella Iredale, 1931

***Epidirella? sayceana* (Chapman, 1912)**

Pleurotoma sayceana Chapman, 1912c: 191, pl. 12, fig. 7.

?*Epidirella sayceana* (Chapman, 1912).—Powell, 1944: 16.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene?

Gemmula Weinkauff, 1875

Gemmula? sp.

Gemmula? sp. Darragh and Kendrick, 2008: 242, Figs 3.18–19.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Age: late Eocene.

***Gemmula samueli* (Tenison Woods, 1879)**

Pleurotoma samueli Tenison Woods, 1879a: 226, pl. 20, fig. 3.—Harris, 1897: 43, pl. 3, figs 5a, b.

Gemmula samueli (Tenison Woods, 1879).—Powell, 1944: 13; Powell, 1964: 268.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Gemmula gellibrandensis* Chapple, 1934**

Gemmula gellibrandensis Chapple, 1934: 163, pl. 19, figs 3a, b.—Powell, 1964: 268.

Distribution. Otway Basin: Gellibrand Formation (type). Age: early Miocene.

Lophiotoma T. L. Casey, 1904***Lophiotoma murrayana* (Pritchard, 1904) comb. nov.**

Pleurotoma murrayana Pritchard, 1904: 335, pl. 19, fig. 10.
Lophiotoma murrayana (Pritchard, 1904).—Powell, 1944: 9.
Lucerapex murrayana (Pritchard, 1904).—Powell, 1964: 288; Powell, 1966: 50.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Lophiotoma murndaliana* (Tenison Woods, 1879) comb. nov.**

Pleurotoma murndaliana Tenison Woods, 1879a: 226, pl. 20, fig. 5.
Lophiotoma murndaliana (Tenison Woods, 1879).—Powell, 1944: 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Turris Batsch, 1789***Turris perarata* (Tate in Cossmann, 1896)**

Pleurotoma perarata Tate in Cossmann, 1896: 77.—Tucker, 1993: 75, Figs 7–10.

Pleurotoma septemlirata Harris, 1897: 39, pl. 2, figs 10a–d.

Turris septemliratus (Harris, 1897).—Powell, 1944: 8; Powell, 1964: 338.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Turris selwyni* (Pritchard, 1904)**

Pleurotoma selwyni Pritchard, 1904: 326, pl. 19, fig. 1.

Turris selwyni (Pritchard, 1904).—Powell, 1944: 8; Powell, 1964: 337.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Unassigned conoids*Austroclavus* Powell, 1942***Austroclavus glaber* Powell, 1944**

Austroclavus glaber Powell, 1944: 40, pl. 2, fig. 1.

Austroclavus teres Powell, 1944: 40, pl. 2, fig. 3.

Austroclavus brevicaudalis Powell, 1944: 40, pl. 2, fig. 2.

Austroclavus lygdinopsis Powell, 1944: 41, pl. 2, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Austrotoma Finlay, 1924***Austrotoma inexpectata* Powell, 1944**

Austrotoma inexpectata Powell, 1944: 23, pl. 7, figs 6, 7.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Austrotoma janukiensis* Powell, 1944**

Austrotoma janukiensis Powell, 1944: 24, pl. 3, fig. 1.

Distribution. Port Phillip Basin: Puebla Formation (type). Age: early Miocene.

Belatomina Powell, 1942***Belatomina tenuisculpta* (Tenison Woods, 1877)**

Daphnella tenuisculpta Tenison Woods, 1877: 106.

Belatomina tenuisculpta (Tenison Woods, 1877).—Powell, 1942: 25.

Distribution. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Belatomina pulchra* (Tate, 1888)**

Bela pulchra Tate, 1888: 173, pl. 4, figs 2a, b.—Cossmann, 1896: 90, pl. 6, figs 10, 11, Fig. 14.

Daphnella pulchra (Tate, 1888).—Harris, 1897: 62.

Belatomina pulchra (Tate, 1888).—Powell, 1942: 72, Fig. B18; Powell, 1969: 381, pl. 285, fig. 6, pl. 286, fig. 1; Powell, 1966: 38, pl. 4, fig. 4.

Belatomina clathrata Powell, 1944: 25, pl. 7, fig. 9.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Belophos Cossmann, 1901***Belophos cancellata* Tenison Woods, 1877**

(Type species of the genus OD)

Cominella cancellata Tenison Woods, 1877: 107.

Bela woodsii Tate, 1888: 173, pl. 4, fig. 3.

Belophos woodsii [sic] (Tate, 1888).—Cossmann, 1901: 162, pl. 6, figs 9, 10, Fig. 42; Powell, 1942: Fig. E27; Powell, 1966: 38, pl. 4, figs 2, 3, Fig. A3. 17; Ludbrook, 1967: 2, figs 21, 22; Powell, 1969: 381, pl. 188, fig. 8, pl. 285, figs 3, 4.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

Cinguliturris Powell, 1964***Cinguliturris tatei* (Cossmann, 1896)**

(Type species of the genus OD)

Asthenotoma tatei Cossmann, 1896: 173, pl. 6, fig. 29.

Pleurotoma trilirata Harris, 1897: 40, pl. 3, figs 1a–d.

Veruturris (*Cinguliturris*) *tatei* (Cossmann, 1896).—Powell, 1964: 320, pl. 251, figs 1, 2; Powell, 1966: 53, pl. 7, figs 6, 7.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Clavogemmula Long, 1981***Clavogemmula prima* Long, 1981**

(Type species of the genus OD)

Gemmula (*Clavogemmula*) *prima* Long, 1981: 32, pl. 5, figs 9, 10.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

Cosmasyrinx Marwick, 1931***Cosmasyrinx levicristata* Darragh, 1997**

Cosmasyrinx (*Tholitoma*) *levicristata* Darragh, 1997: 82, Figs 5R, V, W, Z.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Cosmasyrinx* sp.**

Tholitoma sp. Long, 1981: 24, pl. 4, fig. 7.

Distribution. Otway Basin: Browns Creek Formation. Age: late Eocene.

Cryptoborsonia Powell, 1944

***Cryptoborsonia rugobela* Powell, 1944**

Cryptoborsonia rugobela Powell, 1944: 43, pl. 1, fig. 13.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

***Cryptoborsonia pleurotomella* Powell, 1944**

(Type species of the genus OD)

Cryptoborsonia pleurotomella Powell, 1944: 43, pl. 1, fig. 12.—Powell, 1966: 66, pl. 10, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Cryptocordieria Long, 1981

***Cryptocordieria variabilis* Long, 1981**

(Type species of the genus OD)

Cryptocordieria variabilis Long, 1981: 36, pl. 6, figs 2, 3.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

Fenestrodaphne Powell, 1944

***Fenestrodaphne pulchra* Powell, 1944**

(Type species of the genus OD)

Fenestrodaphne pulchra Powell, 1944: 61, pl. 6, fig. 10.—Ludbrook, 1958: 97, pl. 5, fig. 18; Powell, 1966: 128, pl. 20, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Insolentia Finlay, 1926

***Insolentia?* sp.**

?*Insolentia* sp. Long, 1981: 26, pl. 4, figs 16, 17.

Distribution. Otway Basin: Browns Creek Formation. Age: late Eocene.

***Insolentia johnstonii* (Tenison Woods, 1877)**

Pleurotoma johnstonii Tenison Woods, 1877: 105.

Insolentia johnstoni [sic] (Tenison Woods, 1877).—Powell, 1944: 19.

Distribution. Port Phillip Basin: Puebla Formation. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

Johannaia Long, 1981

***Johannaia darraghi* Long, 1981**

(Type species of the genus OD)

Johannaia darraghi Long, 1981: 31, pl. 5, figs 1, 2.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

Liratomina Powell, 1942

***Liratomina intertexta* Powell, 1944**

Liratomina intertexta Powell, 1944: 26, pl. 7, fig. 4.

Distribution. Port Phillip Basin: Jan Juc Formation, Puebla Formation (type). Age: late Oligocene–early Miocene.

***Liratomina sculptilis* (Tate, 1888)**

(Type species of the genus OD)

Bela sculptilis Tate, 1888: 173, pl. 4, figs 1a, b.

Daphnella sculptilis (Tate, 1888).—Harris, 1897: 61, pl. 4, figs 1a, b.

Liratomina sculptilis (Tate, 1888).—Powell, 1942: 72, Fig. B17; Powell, 1944: 26; Powell, 1966: 38, pl. 4, fig. 6; Powell, 1969: 381, pl. 285, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Liratomina adelaidensis* Powell, 1944**

Liratomina adelaidensis Powell, 1944: 27, pl. 7, fig. 5.—Ludbrook, 1973: pl. 28, fig. 100; Ludbrook, 1978: 173, pl. 19, figs 12, 13.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene, late Pliocene.

***Liratomina crassilirata* (Tate, 1888)**

Bela crassilirata Tate, 1888: 173, pl. 4, figs 7.

Daphnella crassilirata (Tate, 1888).—Harris, 1897: 62, pl. 4, figs 2a, b.

Liratomina crassilirata (Tate, 1888).—Powell, 1944: 27; Powell, 1966: pl. 4, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

Age: middle Miocene.

Mappingia Ludbrook, 1941

***Mappingia acutispira* Ludbrook, 1941**

(Type species of the genus OD)

Mappingia acutispira Ludbrook, 1941: 99, pl. 5, fig. 21.—Ludbrook, 1958: 93; Powell, 1966: 119, pl. 18, fig. 22.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Mappingia matronalis* Ludbrook, 1958**

Mappingia matronalis Ludbrook, 1958: 93, pl. 5, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Marshallaria Finlay and Marwick, 1937***Marshallaria tumefacta* Darragh, 1997**

Marshallaria tumefacta Darragh, 1997: 82, Figs 5Q, X, Y.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Marshallaria* sp. a**

Marshallaria sp. a Darragh, 1997: 84, Figs 5M, N.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Marshallaria* sp. b**

Marshallaria sp. b Darragh, 1997: 84, Figs 5S.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Marshallaria otwayensis* Long, 1981**

Marshallaria otwayensis Long, 1981: 27, pl. 5, figs 3, 4.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

Optoturris Powell, 1944***Optoturris paracantha* (Tenison Woods, 1877)**

Pleurotoma paracantha Tenison Woods, 1877: 105.

Optoturris paracanthus (Tenison Woods, 1877).—Powell, 1944: 12.

Optoturris paracantha (Tenison Woods, 1877).—Powell, 1964: 296; Ludbrook, 1967: 68, pl. 4, figs 3, 4.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Optoturris optatus* (Harris, 1897)**

(Type species of the genus OD)

Pleurotoma optata Harris, 1897: 44, pl. 3, figs 4a, b.

Optoturris optatus (Harris, 1897).—Powell, 1944: 12; Powell, 1964: 295; Powell, 1966: 50, pl. 7, figs 14, 15.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Optoturris editus* Powell, 1944**

Optoturris editus Powell, 1944: 12, pl. 7, fig. 3; Powell, 1964: 295, pl. 227; Powell, 1966: 51, pl. 7, fig. 16.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Paramarshallena Long, 1981***Paramarshallena propebelloides* Long, 1981**

(Type species of the genus OD)

Paramarshallena propebelloides Long, 1981: 28, pl. 5, fig. 5.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

Parasyngenchilus Long, 1981***Parasyngenchilus eocenicus* Long, 1981**

(Type species of the genus OD)

Parasyngenchilus eocenicus Long, 1981: 50, pl. 7, fig. 16.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

***Parasyngenchilus?* sp. b**

?*Parasyngenchilus* sp. b Long, 1981: 51, pl. 7, fig. 18.

Distribution. Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Parasyngenchilus angustior* Long, 1981**

Parasyngenchilus angustior Long, 1981: 50, pl. 7, fig. 17.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Parasyngenchilus* sp. cf. *P. angustior* Long, 1981**

Parasyngenchilus sp. cf. *P. angustior* Long, 1981: Darragh and Kendrick, 2008: 241, fig. 3.20.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

Rugobela Finlay, 1924***Rugobela humerosa* (Marwick, 1926)**

Rugobela humerosa (Marwick, 1926).—Long, 1981: 46, pl. 7, figs 10, 11.

Distribution. Otway Basin: Browns Creek Formation. New Zealand. *Age:* late Eocene, early Oligocene.

***Rugobela columbelloides* (Tenison Woods, 1877)**

Daphnella columbelloides Tenison Woods, 1877: 105.—May, 1919: 72, pl. 10, fig. 14.

Thala marginata Tenison Woods, 1877: 108.

Cordieria conospira Tate, 1898a: 396, pl. 19, fig. 12.

Rugobela columbelloides (Tenison Woods, 1877).—Powell, 1944: 63.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* early–middle Miocene.

***Rugobela exsculpta* Powell, 1944**

Rugobela exsculpta Powell, 1944: 63, pl. 6, fig. 5.

Distribution. Port Phillip Basin: Puebla Formation (type). *Age:* early Miocene.

Syngenchilus Powell, 1944***Syngenchilus johannaensis* Long, 1981**

Syngenchilus johannaensis Long, 1981: 48, pl. 7, fig. 12.

Distribution. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

***Syngenchilus radiapex* Powell, 1944**

(Type species of the genus OD)

Syngenchilus radiapex Powell, 1944: 66, pl. 6, fig. 4, Fig. 9.—Powell, 1966: 138, pl. 22, fig. 18; Long, 1981: 48, pl. 7, figs 13–15.*Distribution.* Otway Basin: Glen Aire Clay. Port Phillip Basin: Jan Juc Formation, Puebla Formation (type). Age: early Oligocene–early Miocene.*Turrinosyrinx* Hickman, 1976***Turrinosyrinx denticulata* Long, 1981***Turrinosyrinx denticulata* Long, 1981: 30, pl. 5, fig. 7.*Distribution.* Otway Basin: Browns Creek Formation (type), Glen Aire Clay. Age: late Eocene–early Oligocene.*Veruturris* Powell, 1944***Veruturris* sp.***Veruturris* sp. Long, 1981: 32, pl. 5, fig. 8.*Distribution.* Otway Basin: Browns Creek Formation. Age: late Eocene.***Veruturris tomopleuroides* (Powell, 1944)***Xenuroturris* (*Veruturris*) *tomopleuroides* Powell, 1944: 11, pl. 1, fig. 3.—Ludbrook, 1958: 84, pl. 5, fig. 2.*Veruturris tomopleuroides* (Powell, 1944).—Powell, 1964: 319; Powell, 1966: 53.*Distribution.* St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.***Veruturris biscalpta* (Powell, 1944)***Xenuroturris* (*Veruturris*) *biscalptus* Powell, 1944: 11, pl. 1, fig. 4.—Ludbrook, 1958: 85, pl. 5, fig. 1.*Veruturris biscalpta* (Powell, 1944).—Powell, 1964: 318.*Distribution.* St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.***Veruturris quadricarinata* (Powell, 1944)**

(Type species of the genus OD)

Xenuroturris (*Veruturris*) *quadricarinatus* Powell, 1944: 11, pl. 1, fig. 5.*Veruturris quadricarinata* (Powell, 1944).—Powell, 1964: 318; Powell, 1966: 53, pl. 7, fig. 5.*Distribution.* Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.***Veruturris subconcava* (Harris, 1897)***Pleurotoma subconcava* Harris, 1897: 41, pl. 3, figs 2a, b.*Xenuroturris* (*Veruturris*) *subconcavus* (Harris, 1897).—Powell, 1944: 10.*Xenuroturris* (*Veruturris*) *cochleatus* Powell, 1944: 10, pl. 7, fig. 11.*Veruturris subconcava* (Harris, 1897).—Powell, 1964: 319, fig. 248 [error in caption]; Powell, 1966: 53.*Veruturris cochleata* Powell, 1944).—Powell, 1964: 318, pl. 250.*Distribution.* Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.**Incertae sedis***Trophon halli* Chapman and Crespin, 1928: 119, pl. 8, fig. 53.*Distribution.* Port Phillip Basin: Jan Juc Formation, Gellibrand Formation (type). Age: late Oligocene–early Miocene.*Trophon profundus* Chapman and Crespin, 1928: 119, pl. 8, fig. 54.*Distribution.* Port Phillip Basin: Gellibrand Formation (type). Age: early Miocene.

Infraclass Heterobranchia
 Order Orbitestellida
 Superfamily Orbitestelloidea
Family Orbitestellidae
Microdiscula Thiele, 1912

Microdiscula cornuspira* (Chapman and Crespin, 1928) comb. nov.Cyclostrema cornuspira* Chapman and Crespin, 1928: 107, pl. 7, figs 32a, b.*Distribution.* Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.**Family Cimidae***Graphis* Jeffries, 1867***Graphis constricta* (Chapman and Crespin, 1928) comb. nov.***Turbonilla constricta* Chapman and Crespin, 1928: 109, pl. 7, fig. 36.*Distribution.* Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.***Graphis tenuissima* (Hedley, 1909)***Turbonilla tenuissima* Hedley, 1909: Chapman and Crespin, 1928: 109, pl. 7, fig. 37.*Distribution.* Port Phillip Basin: Gellibrand Formation. Northeastern Australia (living). Age: middle Miocene–present.

Order Architeconicida
 Superfamily Mathildoidea
Family Mathildidae
Mathilda O. Semper, 1865

Mathilda decorata* Hedley, 1903Mathilda decorata* Hedley, 1903: Chapman and Crespin, 112, pl. 7, fig. 40.*Distribution.* Port Phillip Basin: Gellibrand Formation. Southeastern Australia (living). Age: middle Miocene–present.*Tuba* Lea, 1833***Tuba* sp. 1***Tuba* sp. Darragh, 1997: 90, Fig. 6R.*Distribution.* Otway Basin: Pebble Point Formation. Age: late Paleocene.

Tuba sp. 2

Tuba sp. Darragh, 2017: 96, Figs 9.34–35.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

Valsantia Ludbrook, 1957

***Valsantia spectabilis* Ludbrook, 1957**

(Type species of genus OD)

Valsantia spectabilis Ludbrook, 1957: 20, pl. 2, fig. 3.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Superfamily Architectonicoidea

Family Architectonicidae

Discotectonica Marwick, 1931

***Discotectonica balcombensis* (Finlay, 1927)**

Solarium acutum Tenison Woods, 1879a: 236, pl. 21, fig. 11 non Conrad, 1860.—Harris, 1897: 244, pl. 7, figs 6a–c.

Architectonica balcombensis Finlay, 1927: 501 nom. nov. for *Solarium acutum* Tenison Woods, 1879 non Conrad, 1860.

Architectonica (Discotectonica) balcombensis Finlay, 1927.—Garrard, 1978: 519, Figs 6 (6–8), 10 (7–9).

Discotectonica balcombensis (Finlay, 1927).—Bieler, 1985: 241, pl. 3, fig. 12.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Discotectonica squamogranosa* (Chapple, 1941)**

Architectonica (Discotectonica) squamogranosa Chapple, 1941: 123, pl. 14, figs 1, 1a.—Garrard, 1978: 521, Figs 10 (24, 25).

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Discotectonica* sp.**

Architectonica (Discotectonica) sp. Garrard, 1978: 522, Figs 10 (16–18).

Distribution. Gippsland Basin: Jemmys Point Formation. Age: late Miocene.

Psilaxis Woodring, 1928

***Psilaxis mitchellana* (Garrard, 1978)**

Philippia (Psilaxis) mitchellana Garrard, 1978: 529, Figs 10 (10–12).

Distribution. Gippsland Basin: Rosehill Marl (type). Age: late Miocene.

Heliacus d'Orbigny, 1842

***Heliacus darraghi* Garrard, 1978**

Heliacus (Torinista) darraghi Garrard, 1978: 550, Figs 10 (4–6).—Darragh, 2017: 96, Figs 9.32, 33?

Distribution. Eucla Basin: Pallinup Formation? Otway Basin: Browns Creek Formation, Glen Aire Clay (type). Age: late Eocene–early Oligocene.

***Heliacus otwayanus* Garrard, 1978**

Heliacus (Awarua) otwayanus Garrard, 1978: 552, Figs 10 (1–3).

Distribution Otway Basin: Glen Aire Clay (type). Age: early Oligocene.

***Heliacus* sp.**

Heliacus (Awarua) sp. Garrard, 1978: 553, Figs 10 (19–21).

Distribution Otway Basin: Glen Aire Clay. Age: early Oligocene.

***Heliacus wannonensis* (Tenison Woods, 1879)**

Solarium wannonensis Tenison Woods, 1879a: 237, pl. 21, fig. 10.

Architectonica (Discotectonica) wannonensis (Tenison Woods, 1879).—Ludbrook, 1957: 21, pl. 2, figs 4, 5.

Heliacus (Claraxis) wannonensis (Tenison Woods, 1879).—Garrard, 1978: 560, Figs 6 (9–11).

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Heliacus morningtonensis* Garrard, 1978**

Heliacus (Claraxis) morningtonensis Garrard, 1978: 561, Figs 9 (10–19).

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Heliacus* sp.**

Heliacus (Claraxis) sp. Garrard, 1978: 561, Figs 10 (13–15).

Distribution. Otway Basin: Muddy Creek Formation. Age: middle Miocene.

Granosolarium Sacco, 1892

***Granosolarium asperum* (Hinds, 1844)**

Heliacus (Claraxis) asperus (Hinds, 1844).—Garrard, 1978: 554, Figs 6 (1–3, 12–14), 7 (1–6).

Distribution. Port Phillip Basin: Gellibrand Formation. Australia, Indonesia, Philippines (living). Age: middle Miocene, present.

Pseudomalaxis P. Fischer, 1885

***Pseudomalaxis asculpturatus* Maxwell, 1966**

Pseudomalaxis (Pseudomalaxis) asculpturatus Maxwell, 1966.—Buonaiuto, 1975: 25, Figs 1–3; Garrard, 1978: 566.

Distribution. St Vincent Basin: Blanche Point Formation. New Zealand.

Age: late Eocene.

***Pseudomalaxis praemeridionalis* (Chapman, 1912)**

Homalaxis praemeridionalis Chapman, 1912c: 189, pl. 12, figs 4–6.

Pseudomalaxis (Pseudomalaxis) praemeridionalis (Chapman, 1912).—Buonaiuto, 1975: 27, fig. 4; Garrard, 1978: 565, Figs 10 (22–23).

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Order Ringiculida
 Superfamily Ringiculoidea
Family Ringiculidae
Ringicula d'Orbigny, 1838

***Ringicula tenuilirata* Cossmann, 1897**

Ringicula tenuilirata Cossmann, 1897: 19, pl. 2, figs 27, 28.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Ringicula lactea* Johnston, 1880**

Ringicula lactea Johnston, 1880: 34; Cossmann, 1897: 18, pl. 2, figs 23, 24.

Pyramidella sulcata Johnston 1880: 35 non Sowerby, 1855.—May, 1919: 73.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Ringicula praelonga* Cossmann, 1897**

Ringicula praelonga Cossmann, 1897: 20, pl. 2, figs 25, 26.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Ringicula tatei* Cossmann, 1897**

Ringicula tatei Cossmann, 1897: 19, pl. 2, figs 32, 33.

Ringicula lactea Johnston, 1880.—Harris, 1897: 16, pl. 1, figs 5a–d non Johnston.

Distribution. Otway Basin: Muddy Creek Formation, Grange Burn Formation. *Age:* middle Miocene, early Pliocene.

Gilbertina Morlet, 1888

***Gilbertina meridiana* Darragh, 1997**

Gilbertina meridiana Darragh, 1997: 86, Figs 6A–F, H, I.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Superstes Finlay and Marwick, 1931

***Superstes glomerabilis* Darragh, 1997**

Superstes glomerabilis Darragh, 1997: 87, Figs 6J–O.—Stilwell, 2003: 267, Figs 6M, O, P, R–T.

Distribution. Otway Basin: Dilwyn Formation (type). *Age:* early Eocene.

Order Acteonida
 Superfamily Acteonoidea
Family Acteonidae
Acteon Montfort, 1810

***Acteon petricolus* Darragh, 1997**

Acteon petricolus Darragh, 1997: 85, Figs 5I–L.—Stilwell, 2003: 265, Figs 6I, J, N.

Distribution. Otway Basin: Pebble Point Formation (type), Dilwyn Formation. *Age:* late Paleocene–early Eocene.

***Acteon* sp.**

Acteon sp. Darragh, 1997: 85, Figs 5A,B.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Acteon evanescens* Cossmann, 1897**

Actaeon evanescens Cossmann, 1897: 4, pl. 1, figs 10, 11.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Acteon subscalatus* Cossmann, 1897**

Actaeon subscalatus Cossmann, 1897: 2, pl. 1, figs 8, 9.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Acteon scrobiculatus* Tenison Woods, 1877**

Actaeon scrobiculatus Tenison Woods, 1877: 102.—Cossmann, 1897: 1, pl. 1, figs 1–3.

Acteon scrobiculatus Tenison Woods, 1877.—Ludbrook, 1958: 101, pl. 6, fig. 11; Ludbrook, 1967: 69, pl. 2, fig. 43.

Distribution. Otway Basin: Glen Aire Clay. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Oligocene–early Miocene.

***Acteon tardior* (Ludbrook, 1958) comb. nov.**

Semiactaeon tardior Ludbrook, 1958: 101, pl. 6, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Acteon stratosculptus* (Ludbrook, 1958) comb. nov.**

Semiactaeon stratosculptus Ludbrook, 1958: 102, pl. 6, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Acteon olivellaeformis* (Tate, 1894)**

Actaeopyramis olivellaeformis Tate, 1894: 181, pl. 11, fig. 2.

Actaeon olivellaeformis (Tate, 1894)—Cossmann, 1897: 4, pl. 1, figs 12, 13.

Adelactaeon olivellaeformis (Tate, 1894)—Harris, 1897: 11, pl. 1, figs 3a, b.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Acteon distinguendus* Cossmann, 1897**

Actaeon distinguendus Cossmann, 1897: 3, pl. 1, figs 6, 7.

Actaeon scrobiculatus Tenison Woods, 1877.—Harris, 1897: 7, pl. 1, figs 1a, b non Tenison Woods.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Acteon funiculifer* Cossmann, 1897**

Actaeon funiculifer Cossmann, 1897: 2, pl. 1, figs 4, 5.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

***Acteon microplocus* (Cossmann, 1897) comb. nov.**

Semiactaeon microplocus Cossmann, 1897: 5, pl. 1, figs 14, 15.

Distribution. Murray Basin Cadell Marl (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Tornatellaea Conrad, 1860

***Tornatellaea quindecimlirata* Darragh, 1997**

Tornatellaea quindecimlirata Darragh, 1997: 86, Figs 5C–H.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Triploca Tate, 1893

***Triploca ligata* Tate, 1894**

(Type species of the genus *Monotopy*)

Triploca ligata Tate, 1894: 186, pl. 11, fig. 7.—Cossmann, 1895: 50, pl. 7, fig. 19; Cossmann, 1897: 6, pl. 1, figs 16, 17.

Tornatellaea (*Triploca*) *ligata* (Tate, 1894).—Harris, 1897: 9, pl. 1, figs 2a, b.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

Tenuiactaeon Aldrich, 1921

***Tenuiactaeon* sp.**

Tenuiactaeon sp. Darragh, 1997: 86, Fig. 5T.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

Order Umbraculida
Superfamily Umbraculoidea
Family Umbraculidae
Umbraculum Schuhmacher, 1817

***Umbraculum australe* Harris, 1897**

Umbraculum australe Harris, 1897: 23, pl. 1, figs 7a–c.

Umbrella australiensis Cossmann, 1897: 20, pl. 2, figs 29–31.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Order Cephalaspidea
Superfamily Bulloidea
Family Bullidae
Bulla

***Bulla quoyii* Gray, 1843**

Bulla botanica Hedley, 1918.—Ludbrook, 1978: 185, pl. 23, fig. 6.

Distribution. Eucla Basin: Roe Calcarenite. Australia (living). *Age:* late Pliocene–present.

Family Tornatinidae
Acteocina Gray, 1847

***Acteocina aptycha* (Cossmann, 1897) comb. nov.**

Tornatina aptycha Cossmann, 1897: 8, pl. 1, figs 22, 23.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Acteocina apiculata* (Tate, 1879)**

Retusa (*Semiretusa*) *apiculata* (Tate, 1879).—Ludbrook, 1958: 103, pl. 6, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands. Southwestern Australia (living). *Age:* middle Miocene–present.

***Acteocina pachyptycha* (Cossmann, 1897) comb. nov.**

Tornatina pachyptycha Cossmann, 1897: 6, pl. 1, figs 20, 21.—Ludbrook, 1978: 187, pl. 23, figs 4, 5.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Grange Burn Formation (type). *Age:* early–late Pliocene.

***Acteocina longispira* (Cossmann, 1897) comb. nov.**

Tornatina longispira Cossmann, 1897: 7, pl. 1, figs 18, 19.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Family Rhizoridae
Volvulella Newton, 1891

***Volvulella inflatior* Cossmann, 1897**

Volvulella inflatior Cossmann, 1897: 9, pl. 1, figs 24, 25.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* late Oligocene–early Miocene.

***Volvulella rostratata* (Adams, 1850)**

Volvulella rostratata (Adams, 1850).—Ludbrook, 1958: 104, pl. 6, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age:* middle Miocene–present.

***Volvulella tatei* Cossmann, 1897**

Volvulella tatei Cossmann, 1897: 8, pl. 1, figs 26, 27.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Superfamily Cylichnoidea
Family Cylichnidae
Cylichna Lovén, 1846

***Cylichna* cf. *C. angustata* (Tate and Cossmann, 1897)**

Cylichna cf. *C. angustata* (Tate and Cossmann, 1897).—Darragh, 2017: 97, Fig. 9.36.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Cylichna angustata* (Tate and Cossmann, 1897) comb. nov.**

Bullinella angustata Tate and Cossmann in Cossmann, 1897: 11, pl. 2, figs 1, 2.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Cylichna paucilineata* (Tate and Cossmann, 1897) comb. nov.**

Bullinella paucilineata Tate and Cossmann in Cossmann, 1897: 12, pl. 1, figs 28–30.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Cylichna exigua* Tenison Woods, 1879**

Cylichna exigua Tenison Woods, 1879b: 19, pl. 2, fig. 6.

Bullinella exigua (Tenison Woods, 1879).—Cossmann, 1897: 10, pl. 1, figs 31–33.

Cylichna angustata (Tate and Cossmann, 1897).—Ludbrook, 1958: 105, pl. 6, fig. 18.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Cylichna aratula* (Cossmann, 1897) comb. nov.**

Bullinella aratula Cossmann, 1897: 12, pl. 2, figs 3, 4.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Cylichna infundibulata* (Cossmann, 1897) comb. nov.**

Bullinella infundibulata Cossmann, 1897: 14, pl. 2, figs 15, 16.

Distribution. Otway Basin: Gellibrand Formation (type), Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Cylichna altiplica* (Cossmann, 1897) comb. nov.**

Bullinella altiplica Cossmann, 1897: 14, pl. 2, figs 9–11.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Cylichna cuneopsis* (Cossmann, 1897) comb. nov.**

Bullinella cuneopsis Cossmann, 1897: 13, pl. 2, figs 5, 6.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Cylichna anticingulata* Ludbrook, 1958**

Cylichna anticingulata Ludbrook, 1958: 105, pl. 6, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Cylichna phanerospira* (Cossmann, 1897) comb. nov.**

Bullinella phanerospira Cossmann, 1897: 15, pl. 2, figs 12–14.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Mnestia H. and A. Adams, 1854

***Mnestia arachis* (Quoy and Gaimard, 1833)**

Cylichna arachis (Quoy and Gaimard, 1833).—Ludbrook, 1978: 187, pl. 23, fig. 9.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Cylichnania Marwick, 1931

***Cylichnania* sp.**

Cylichnania sp. Darragh, 1997: 88, Figs 6T–V.—Stilwell, 2003: 267: Figs 6W, X.

Distribution. Otway Basin: Pebble Point Formation, Dilwyn Formation. *Age:* late Paleocene–early Eocene.

Cylichnella Gabb, 1873

***Cylichnella callosa* Tate and Cossmann, 1897**

Cylichnella callosa Tate and Cossmann in Cossmann, 1897: 17, pl. 2, figs 19, 20.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

Semiretusa Thiele, 1925

***Semiretusa canaligradata* (Ludbrook, 1958)**

Retusa (*Semiretusa*) *canaligradata* Ludbrook, 1958: 103, pl. 6, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Semiretusa coxi* (Ludbrook, 1958)**

Retusa (*Semiretusa*) *coxi* Ludbrook, 1958: 104, pl. 6, fig. 21.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Semiretusa nurinensis* (Ludbrook, 1978)**

Retusa (*Semiretusa*) *nurinensis* Ludbrook, 1978: 187, pl. 24, fig. 16.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Nomen dubium

***Tornatina involuta* Tenison Woods, 1879**

Tornatina involuta Tenison Woods, 1879a: 239, pl. 21, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Remarks. The original specimen, from which the figure was taken, was broken before a description could be made. It may best be considered a nomen dubium, as no other specimens have yet been found that match the figure.

Superfamily Philinoidea

Family Alacuppidae

Roxania Leach, 1847

***Roxania woodsii* (Tate, 1884)**

Cylichna woodsii Tate, 1884b: 228.

Roxania woodsii [sic] (Tate, 1884).—Cossmann, 1897: 16, pl. 2, figs 7, 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Roxania scrobiculata* Tate and Cossmann, 1897**

Roxania scrobiculata Tate and Cossmann in Cossmann, 1897: 16, pl. 2, figs 17, 18.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Roxania bullaeformis* Cossmann, 1897**

Roxania? bullaeformis Cossmann, 1897: 17, pl. 2, figs 21–23.

Damoniella bullaeformis (Cossmann, 1897).—Ludbrook, 1958: 106, pl. 6, fig. 20.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Roxania partisculpta* (Ludbrook, 1958) comb. nov.**

Damoniella partisculpta Ludbrook, 1958: 106, pl. 6, fig. 14.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

Scaphander Montfort, 1810

***Scaphander tenuis* Harris, 1897**

Scaphander tenuis Harris, 1897: 12, pl. 1, figs 4a–c.—Ludbrook, 1958: 107.

Scaphander tatei Cossmann, 1897: 9, pl. 1, figs 34, 35.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

Priscaphander Finlay and Marwick, 1937

***Priscaphander bullariformis* Darragh, 1997**

Priscaphander bullariformis Darragh, 1997: 88, Figs 6Q, X–Z.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

Superfamily Haminoeioidea
Family Haminoeidae
Cylichnatys Habe, 1952

***Cylichnatys darraghi* Burn, 1978**

Cylichnatys darraghi Burn, 1978: 108, Fig. 18.

Distribution. Port Phillip Basin: Sandringham Sandstone (type). *Age*: late Miocene.

Order Pteropoda
Superfamily Limacinoidea
Family Heliconoididae
Heliconoides d'Orbigny, 1836

***Heliconoides? dilatata* (von Koenen, 1892)**

Limacina? dilatata (von Koenen, 1892).—Janssen, 1990: 10, pl. 1, figs 6a–d.

Distribution. Otway Basin: Glen Aire Clay. Europe. *Age*: early Oligocene.

***Heliconoides atypicus* (Laws, 1944)**

Limacina atypica (Laws, 1944).—Janssen, 1990: 7, pl. 1, figs 1a–c, 2, pl. 10 figs 1a, b, 3a, b.

Heliconoides atypicus (Laws, 1944).—Janssen and Hellyar, 2017: 51.

Distribution. Port Phillip Basin: Jan Juc Formation or Puebla Formation. New Zealand. *Age*: late Oligocene/early Miocene.

***Heliconoides curryi* (Janssen, 1990) comb. nov.**

Limacina curryi Janssen, 1990: 8, pl. 1, figs 3a–d, 4a–d, 5, pl. 11, figs 3a, b.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age*: late Oligocene.

***Heliconoides lunatus* (Janssen, 1989) comb. nov.**

Limacina lunata Janssen, 1990: 18, pl. 2, figs 8a–d, 9, 10.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age*: late Oligocene.

***Heliconoides inflatus* (d'Orbigny, 1837)**

Spiralis tertiaria Tate, 1887c: pl. 20, figs 12a–c.

Limacina inflata (d'Orbigny, 1837).—Janssen, 1990: 14, pl. 2, figs 5a–c, 6a–d, 7a, b, pl. 3, figs 11a, b, pl. 10, figs 2a, b.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Europe. *Age*: middle Miocene–present.

***Heliconoides tatei* (Janssen, 1989) comb. nov.**

Limacina tatei Janssen, 1990: 19, pl. 2, figs 11a–d, 12a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Heliconoides tertiarius* (Tate, 1887)**

Spiralis tertiaria Tate, 1887c: 196.

Limacina tertiaria (Tate, 1887).—Janssen, 1990: 19, pl. 3, figs 1a–d, 2a, b, 3a, b, 4a–c, 5a–c, 6a–c, 7a–c, 8a, b, 9a–e, 10a, b, pl. 4, figs 1a–d, 2a–c, 3a–c, 4a–c, 5a–c, 6a–c, pl. 11, figs 1a–c, 2.

Heliconoides tertiarius (Tate, 1887).—Janssen, 2003: 13.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Mediterranean. *Age*: middle Miocene.

Family Limicinidae

Limacina Bosc, 1817

***Limacina advenulata* (Darragh, 1997)**

Spiratella advenulata Darragh, 1997: 91, Figs 7A–F.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

***Limacina valvatina* (Reuss, 1867)?**

Limacina aff. *gramensis* (Rasmussen, 1968).—Janssen, 1990: 11, pl. 1, figs 7a–d, 8a–d, pl. 2, figs 1a–d, 2a, b, 3, 4.

Distribution. Otway Basin: Fishing Point Marl, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Europe. *Age*: early–middle Miocene.

Superfamily Cavolinoidea
Family Creseidae
Creseis Rang, 1828

***Creseis* cf. *chierchia* (Boas, 1886)**

Creseis cf. *chierchia* (Boas, 1886).—Janssen, 1990: 26, pl. 5, figs 1a, b, 2a, b, 3a–c, 4a–c, pl. 12, figs 1a, b.

Distribution. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Styliola Gray, 1847

***Styliola?* sp.**

?*Styliola* sp. Janssen, 1990: 39, pl. 6, figs 10a–g.

Distribution. Port Phillip Basin: Jan Juc Formation or Puebla Formation. *Age:* late Oligocene or early Miocene.

***Styliola subula* (Quoy and Gaimard, 1827)**

Styliola rangiana Tate, 1887c: 194, pl. 20, fig. 2.—Marwick, 1924a: 323, pl. 6, fig. 4.

Clio (*Styliola*) *rangiana* (Tate, 1887).—Harris, 1897: 20, pl. 1, figs 6a, b.

Styliola subula (Quoy and Gaimard, 1827).—Janssen, 1990: 32, pl. 5, figs 13–19, pl. 6, figs 1a–c, 2a, b, 3, 4a–c, 5a, b, 6, 7a, b, 8a–c, 9a–d.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Tropic/subtropic circumglobal. *Age:* middle Miocene–present.

Family Hyalocylidae

Praehyalocylis Korobkov, 1962

***Praehyalocylis maxima* (Ludwig, 1864)**

Styliola annulata Tate, 1887c: 195, pl. 20, fig. 1.

Praehyalocylis annulata (Tate, 1887).—Janssen, 1990: 28, pl. 5, figs 7–12.

Praehyalocylis maxima (Ludwig, 1864).—Garvie et al., 2020: 71.

Distribution. St Vincent Basin: Blanche Point Formation (type). Europe, North America. *Age:* late Eocene.

Family Cliidae

Clio Linnaeus, 1767

***Clio?* sp.**

?*Clio* sp. Janssen, 1990: 40, pl. 6, figs 11a–d, 12a–c.

Distribution. St Vincent Basin: Blanche Point Formation. *Age:* late Eocene.

Family Cuvierinidae

Spoelia Janssen, 1989

***Spoelia torquayensis* Janssen, 1989**

(Type species of the genus OD)

Spoelia torquayensis Janssen, 1990: 42, pl. 7, figs 1a–d, 2a–e, 3a–d, 4a–c, 5a–c.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Europe. *Age:* late Oligocene.

Family Cavoliniidae

Vaginella Daudin, 1800

***Vaginella bicarinata* (Tate, 1887)**

Styliola bicarinata Tate, 1887c: 195, pl. 20, fig. 9.

Vaginella bicarinata (Tate, 1887).—Janssen, 1990: 46, pl. 7, figs 6a–d, 7a–c.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Vaginella depressa* Daudin, 1800**

Vaginella eligmostoma Tate, 1887c: 195, pl. 20, fig. 7.

Vaginella depressa Daudin, 1800.—Janssen, 1990: 51, pl. 7, figs 8a–c, 9a–d, 10a–d, 11a–c, 12a–c, pl. 8, figs 1a–c, 2a–c, 3a–c, 4a, b, 5a–d, 6a–c, 7a, b, 8.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Europe, Caribbean, Japan, New Zealand. Middle Miocene.

***Vaginella victoriae* Janssen, 1989**

Vaginella victoriae Janssen, 1990: 57, pl. 9, figs 1a–d, 2a–f, 3a–c, 4a–d, 5a–d, 6a–d.

Distribution. Otway Basin: Muddy Creek Formation (type). Europe. *Age:* middle Miocene.

***Vaginella* sp.**

Vaginella sp. Janssen, 1990: 60, pl. 8, figs 10a–c, 11.

Distribution. Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Order Pylopolmonata
 Superfamily Amphiboloidea

Family Amphibolidae

Salinator Hedley, 1900

***Salinator fragilis* (Lamarck, 1822)**

Salinator fragilis (Lamarck, 1822).—Ludbrook, 1978: 191, pl. 23, fig. 16.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Salinator lawsae* Ludbrook, 1978**

Salinator lawsae Ludbrook, 1978: 192, pl. 23, figs 20–23.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Phallomedusa Golding, Ponder and Byrne, 2007

***Phallomedusa solida* (Martens, 1878)**

(Type species of the genus OD)

Salinator solida (Martens, 1878).—Ludbrook, 1978: 193, pl. 23, figs 14, 15.

Distribution. Eucla Basin: Roe Calcarenite. Southeastern and eastern Australia (living). *Age:* late Pliocene–present.

Order Pyramidellida
 Superfamily Pyramidelloidea
Family Amathinidae
Raulinia Mayer, 1864

***Raulinia?* sp.**

Raulinia? sp. Darragh, 1997: 91, Fig. 6G.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Raulinia eothinos* (Tate, 1894) comb. nov.**

Isapis eothinos Tate, 1894: 182, pl. 10, fig. 11.

Fossarus (*Isapis*) *eothinos* (Tate, 1894).—Cossmann, 1916: 90, pl. 3, fig. 40.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

Family Pyramidellidae
Odostomia J. Fleming, 1813

***Odostomia* sp.**

Odostomia sp. Darragh, 1997: 90, Figs 6P, S, 11D, N.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Odostomia?* sp.**

Odostomia? sp. Stilwell, 2003: 268, Fig. 6Q.

Distribution. Otway Basin: Dilwyn Formation. *Age:* late Paleocene.

***Odostomia puteolata* (Pritchard, 1896) comb. nov.**

Actaeon puteolata Pritchard, 1896: 124, pl. 4, figs 10–12.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Odostomia microlirata* Johnston, 1885**

Odostomia microlirata Johnston, 1885a: 223.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Odostomia deplexa* (Tate and May, 1900)?**

Odostomia deplexa (Tate and May, 1900).—Chapman and Crespin, 1928: 110, pl. 7, fig. 38.

Distribution. Port Phillip Basin: Gellibrand Formation? Southeastern Australia (living). *Age:* early Miocene?–present.

Syrnola A. Adams, 1860

***Syrnola* sp.**

Syrnola sp. Darragh, 2017: 97, Fig. 9.21.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Syrnola polita* (Johnston, 1880)**

Pyramidella polita Johnston, 1880: 34.

Syrnola polita (Johnston, 1880).—May, 1919: 73, pl. 11, fig. 21.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Syrnola elata* (Tate, 1894) comb. nov.**

Isapsis elatus Tate, 1894: 183, pl. 10, fig. 10.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Syrnola praefasciata* Ludbrook, 1957**

Syrnola (*Agatha*) *praefasciata* Ludbrook, 1957: 40, pl. 3, fig. 5.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Syrnola acrisecta* Ludbrook, 1941**

Syrnola acrisecta Ludbrook, 1941: 92, pl. 5, fig. 2.

Syrnola (*Puposyrnola*) *acrisecta* Ludbrook, 1941.—Ludbrook, 1957: 42.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Syrnola tincta* Angas, 1871**

Syrnola (*Syrnola*) *tincta* Angas, 1871.—Ludbrook, 1957: 39, pl. 3, fig. 4.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl. Southwestern, southern and eastern Australia (living). *Age:* middle Miocene–present.

***Syrnola jonesiana* (Tate, 1898)**

Odontostomia jonesiana Tate, 1898b: 70.—Tate, 1898c: 83, Fig.

Syrnola (*Agatha*) *jonesiana* (Tate, 1898).—Ludbrook, 1957: 41, pl. 3, fig. 6.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Norwestbend Formation? (type). *Age:* middle Miocene.

***Syrnola infrasulcata* (Tate, 1898)**

Syrnola (*Agatha*) *infrasulcata* (Tate, 1898).—Ludbrook, 1957: 41, pl. 3, fig. 7.

Distribution. St Vincent Basin: Dry Creek Sands. South Australia (living). *Age:* middle Miocene–present.

Puposyrnola Cossmann, 1921

***Puposyrnola tasmanica* (Tenison Woods, 1877)**

Syrnola (*Puposyrnola*) *tasmanica* (Tenison Woods, 1877).—Ludbrook, 1957: 41, pl. 3, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation. Southeastern Australia (living). *Age:* middle Miocene–present.

Megastomia Monterosato, 1884

***Megastomia adelaidensis* (Ludbrook, 1957) comb. nov.**

Syrnola (*Evelynella*) *adelaidensis* Ludbrook, 1957: 42, pl. 3, fig. 9.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Eulimella Forbes and McAndrew, 1846

***Eulimella nitidula* Chapman and Crespin, 1928**

Eulimella nitidula Chapman and Crespin, 1928: 111, pl. 7, fig. 39.

Distribution. Gippsland Basin: Wuk Wuk Marl (type). Age: middle Miocene.

Turbonilla Risso, 1926

***Turbonilla* sp.**

Turbonilla sp. Darragh, 2017: 96, Figs 9.2, 9.4.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Turbonilla pagoda* Tenison Woods, 1877**

Turbonilla pagoda Tenison Woods, 1877: 101.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Turbonilla mulderi* Chapman and Crespin, 1928**

Turbonilla mulderi Chapman and Crespin, 1928: 108, pl. 7, fig. 34.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Turbonilla subfusca* Ludbrook, 1941**

Turbonilla subfusca Ludbrook, 1941: 93, pl. 5, fig. 7.

Turbonilla (Chemnitzia) subfusca Ludbrook, 1941.—Ludbrook, 1957: 44.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla adelaidensis* Ludbrook, 1957**

Turbonilla (Chemnitzia) adelaidensis Ludbrook, 1957: 45, pl. 3, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla currongae* Ludbrook, 1957**

Turbonilla (Chemnitzia) currongae Ludbrook, 1957: 45, pl. 3, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla mappingae* Ludbrook, 1957**

Turbonilla (Chemnitzia) mappingae Ludbrook, 1957: 43, pl. 3, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla vixcostata* Ludbrook, 1941**

Turbonilla vixcostata Ludbrook, 1941: 92, pl. 5, fig. 6.

Turbonilla (Pyrgolampros) vixcostata Ludbrook, 1941.—Ludbrook, 1957: 47.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla widningae* Ludbrook, 1957**

Turbonilla (Chemnitzia) widningae Ludbrook, 1957: 46, pl. 3, figs 14, 15.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla wurongae* Ludbrook, 1957**

Turbonilla (Chemnitzia) wurongae Ludbrook, 1957: 44, pl. 3, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Turbonilla mariae* Tenison Woods, 1876**

Turbonilla (Turbonilla) mariae Tenison Woods, 1876.—Ludbrook, 1957: 43, pl. 3, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands. Age: middle Miocene. Southeastern Australia (living). Age: middle Miocene–present.

***Turbonilla weeahensis* Chapman and Gabriel, 1914**

Turbonilla weeahensis Chapman and Gabriel, 1914: 320, pl. 28, figs 27a, b.—Chapman, 1916: pl. 71, figs 27a, b.

Distribution. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Pyrgiscus Philippi, 1841

***Pyrgiscus* sp.**

Pyrgiscus sp. Darragh, 2017: 97, Fig. 9.1.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Pyrgiscus liraecostatus* (Tenison Woods, 1877) comb. nov.**

Turbonilla liraecostata Tenison Woods, 1877: 101.

Turbonilla (Chemnitzia) liraecostata Tenison Woods, 1877.—Ludbrook, 1967: 69, pl. 2, figs 42a, b.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Pyrgiscus radicans* (Chapman and Crespin, 1928) comb. nov.**

Turbonilla radicans Chapman and Crespin, 1928: 109, pl. 7, fig. 35.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: late Miocene.

Otopleura P. Fischer, 1885

***Otopleura mitralis* (A. Adams, 1854)**

Otopleura australis Laseron, 1959.—Ludbrook, 1978: 188, pl. 23, figs 10, 11.

Distribution. Eucla Basin: Roe Calcarenite. Northern Australia (living). Age: late Pliocene–present.

***Otopleura robinsoni* Ludbrook, 1978**

Otopleura robinsoni Ludbrook, 1978: 189, pl. 23, figs 12, 13.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

Nomen dubium

According to May (1919: 73), *Pyramidella roberti* Tenison Woods, 1877 (p. 114) is an indeterminate juvenile turritellid.

Superorder Siphonariia
Order Siphonariida
Superfamily Siphonarioidea
Family Siphonariidae
Siphonaria G. B. Sowerby I, 1823

***Siphonaria zelandica* (Quoy and Gaimard, 1833)**

Siphonaria (*Hubendickula*) *baconi* Reeve, 1856.—Ludbrook, 1983: 46, Fig. 3w; Ludbrook, 1984: 236, Fig. 57a'.

Distribution. St Vincent Basin: Point Ellen Formation. Western, southern and eastern Australia (living). Age: late Pliocene—present.

Superorder Sacoglossa
Superfamily Oxynooidea
Family Juliidae
Berthelinia Crosse, 1875

***Berthelinia burni* Ludbrook and Steel, 1961**

Berthelinia burni Ludbrook and Steel, 1961: 229, pl. 12, figs 1–4.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

CLASS BIVALVIA
Subclass Protobranchia
Order Nuculida
Superfamily Nuculoidea
Family Nuculidae
Nucula Lamarck, 1799

***Nucula* sp.**

Nucula sp. Darragh, 1997: 96, Figs 12B, C.

Distribution. Otway Basin. Pebble Point Formation (type). Age: late Paleocene.

Leionucula Quenstedt, 1930

***Leionucula* sp. cf. *L. palaioanaxea* Stilwell, 1993**

Leionucula sp. cf. *L. palaioanaxea* Stilwell, 1993: Stilwell, 2003: 250, Figs 4A–C.

Distribution. Otway Basin: Dilwyn Formation. Age: early Eocene.

Austronucula Powell, 1939

***Austronucula? arenaria* Darragh, 1997**

Austronucula? arenaria Darragh, 1997: 99, Figs 11G–I.

Distribution. Otway Basin. Pebble Point Formation (type). Age: late Paleocene.

Lamellinucula Schenck, 1944

***Lamellinucula pyrenoides* Darragh, 1994**

Lamellinucula pyrenoides Darragh, 1994: 76, Figs 1J, N, Q, T.

Distribution. Otway Basin. Pebble Point Formation (type). Age: late Paleocene.

Pronucula Hedley, 1902

***Pronucula tatei* (Finlay, 1924)**

Nucula semistriata Tate, 1886b: 128, pl. 4, figs 5a, b non Wood, 1840.

Nucula tatei Finlay, 1924: 107 nom. nov. for *Nucula semistriata* Tate, 1886 non Wood, 1840.—Darragh and Kendrick, 1980: 9, Figs 2A–D.

Pronucula tatei (Finlay).—Ludbrook, 1961a: 56, pl. 1, figs 5, 6.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Pronucula atkinsoni* (Johnston, 1880) comb. nov.**

Portlandia atkinsoni Johnston, 1880: 39.

Nucula atkinsoni Johnston, 1880.—Tate, 1886b: 127, pl. 4, figs 3a–c; Johnston, 1888, pl. 31, figs 16, 16a.

Nucula atkinsoni Johnston, 1880: Chapman and Singleton, 1927: 114.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). Age: early Miocene.

***Pronucula fenestralis* (Tate, 1886)**

Nucula fenestralis Tate, 1886b: 129, pl. 4, fig. 4.

Pronucula fenestralis (Tate, 1886).—Ludbrook, 1961a: 56, pl. 1, figs 9, 10.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). Age: early Miocene.

***Pronucula morundiana* (Tate, 1886)**

Nucula morundiana Tate, 1886b: 128, pl. 4, figs 2a–c.

Pronucula morundiana (Tate, 1886).—Ludbrook, 1955: 20; Ludbrook, 1961a: 55, pl. 1, figs 1, 2.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

Ennucula Iredale, 1931

***Ennucula tenisoni* (Pritchard, 1896) comb. nov.**

Nucula tumida Tenison Woods, 1877: 111 non Phillips, 1836.

Nucula tenisoni Pritchard, 1896: 128 nom. nov. for *Nucula tumida* Tenison Woods, 1877 non Phillips, 1836.

Nucula (*Nucula*) *tenisoni* Pritchard, 1896.—Singleton, 1932: 290, pl. 24, figs 1–4.

Distribution: Otway Basin: Browns Creek Formation, Glen Aire Clay. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. *Age*: late Eocene–early Miocene.

***Ennucula brevitergum* (Chapman and Singleton, 1927) comb. nov.**

Nucula brevitergum Chapman and Singleton, 1927: 114, pl. 10, fig. 1a, b.

Distribution: Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Ennucula gricei* (Singleton, 1941)**

Nucula tenisoni Pritchard, 1896: Singleton, 1932: 292, pl. 24, fig. 5a, b non Pritchard, 1896.

Nucula (*Ennucula*) *gricei* Singleton, 1941: 423, pl. 20, figs 1a, b.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

***Ennucula venusta* (Woods, 1931)**

Nucula venusta Woods, 1931: 147, pl. 7, figs 1, 2.

Nucula (*Ennucula*) *venusta* N. H. Woods, 1931.—Ludbrook, 1955: 19, pl. 6, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Ennucula kalimnae* (Singleton, 1932)**

Nucula tumida Tenison Woods, 1877: Tate, 1886b: 127, pl. 6, figs 6a, b non Tenison Woods, 1877.

Nucula kalimnae Singleton, 1932: 292, pl. 24, figs 7a, b, 8a, b, 9.

Nucula (*Ennucula*) *kalimnae* Singleton, 1932.—Ludbrook, 1955: 18, pl. 1, figs 1, 2; Ludbrook, 1978: 36, pl. 5, fig. 4.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation, Werrikoo Limestone. Gippsland Basin: Jemmys Point Formation (type). *Age*: middle Miocene–late Pliocene.

***Ennucula beachportensis* (Verco, 1907)**

Nucula (*Ennucula*) *beachportensis* (Verco, 1907).—Ludbrook, 1955: 19, pl. 1, figs 3, 4.

Distribution. St Vincent Basin: Dry Creek Sands. Tasmania, South Australia (living). *Age*: middle Miocene–present.

Incertae sedis

Nucula marthae McCoy in Brough Smyth, 1875: 22, fig. 2.

This taxon is a natural mould in ironstone and insufficient detail is preserved to enable its determination with any certainty.

Chapman (1905) stated that *Nucula marthae* was not identifiable. This conclusion needs to be checked by making a good cast of McCoy's type to see if there are any diagnostic features.

Order Nuculanida
Family Nuculanidae
Ledina Dall, 1898

***Ledina paucigradata* (Singleton, 1943)**

Nuculana paucigradata Singleton, 1943: 268, pl. 12, figs 1a, b.

Ledina paucigradata (Singleton, 1943).—Darragh, 1994: 77, Figs 1H, I, O, P, R, S, U, V.

cf. *Ledina paucigradata* (Singleton, 1943).—Stilwell, 2003: 251, Figs 4K, P.

Distribution. Otway Basin: Pebble Point Formation (type). Dilwyn Formation. *Age*: late Paleocene, early Eocene.

Comitileda Iredale, 1924

***Comitileda brachyrhynchoides* Darragh, 1997**

Comitileda sp. cf. *C. brachyryncha* Maxwell, 1992.—Darragh, 1994: 77, Figs 1K–M.

Comitileda brachyrhynchoides Darragh, 1997: 99, Figs 11K, L.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

Ledella Verrill and Bush, 1897

***Ledella leptorhyncha* (Tate, 1886)**

Leda leptorhyncha Tate, 1886b: 131, pl. 10, figs 5a, b.

Nuculana leptorhyncha (Tate, 1886).—Harris, 1897: 350.

Ledella leptorhyncha (Tate, 1886).—Ludbrook, 1961a: 61, pl. 1, figs 3, 4.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation *Age*: late Eocene.

***Ledella rhomboidea* (May, 1922)**

Nuculana rhomboidea May, 1922: 12, pl. 4, fig. 9.

Ledella rhomboidea (May, 1922).—Ludbrook, 1967: 65, pl. 2, fig. 41.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). *Age*: early Miocene.

***Ledella praelonga* (Tate, 1886)**

Leda praelonga Tate, 1886b: 132, pl. 12, fig. 4a, b.

Nuculana praelonga (Tate, 1886).—Harris, 1897: 351.

Ledella praelonga (Tate, 1886).—Ludbrook, 1961a: 62, pl. 1, figs 7, 8.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation, Gellibrand Formation *Age*: late Oligocene–middle Miocene.

Poroleda Hutton, 1893

***Poroleda huttonii* (Tenison Woods, 1879)**

Leda huttonii Tenison Woods, 1879a: 239, pl. 21, fig. 2.—Tate, 1886b: 130, pl. 6, fig. 4.

Nuculana huttoni (Tenison Woods, 1879).—Harris, 1897: 351.

Poroleda huttoni (Tenison Woods, 1879).—Ludbrook, 1961a: 63, pl. 3, figs 9, 10.

Distribution. St Vincent Basin: Blanche Point Formation? Otway Basin: Muddy Creek Formation (type). *Age*: late Eocene?, middle Miocene.

Lamellileda Cotton, 1930***Lamellileda tatei* (Hedley, 1904)**

Poroleda lanceolata Tate, 1894: 186, pl. 12, figs 6, 6a non Hutton, 1893.

Poroleda tatei Hedley, 1904: 112 nom. nov. for *Poroleda lanceolata* Tate, 1894 non Hutton, 1893.

Propeleda ensicula (Angas, 1877).—Chapman and Crespin, 1928: 96, pl. 5, fig. 24.

Lamellileda tatei (Hedley, 1904).—Ludbrook, 1961a: 64, pl. 3, figs 7, 8.

Distribution Otway Basin: Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.

Sacella Woodring, 1923***Sacella chapmani* (Finlay, 1924)**

Leda apiculata Tate, 1886b: 131, pl. 9, figs 4a, b non J. De C. Sowerby, 1836.

Nuculana apiculata (Tate, 1886).—Harris, 1897: 350.

Nuculana chapmani Finlay, 1924: 107 nom. nov. for *Leda apiculata* Tate, 1886 non J. De C. Sowerby, 1836.—Chapman and Singleton, 1927: 115.

Nuculana (Sacella) chapmani (Finlay, 1924).—Ludbrook, 1961a: 57, pl. 2, figs 1, 2; Darragh and Kendrick, 1980: 9, Figs 2E, F.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Formation, Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. **Age:** late Eocene—middle Miocene.

***Sacella fontinalis* (Pritchard, 1901)**

Leda fontinalis Pritchard, 1901: 28, pl. 3, figs 3, 3a.

Nuculana (Sacella) fontinalis (Pritchard, 1901).—Ludbrook, 1961a: 58, pl. 2, figs 3, 4.

Distribution: Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

***Sacella vagans* (Tate, 1887)**

Leda lucida Tenison Woods, 1879b: 3, pl. 1, figs 5, 5a non Loven, 1846.—Tate 1886b: 131, pl. 6, figs 7a, b.

Leda vagans Tate, 1887a: 188 nom. nov. for *Leda lucida* Tenison Woods, 1879 non Loven, 1846.

Nuculana vagans (Tate, 1887).—Harris, 1897: 348.

Nucula fortis (Hedley, 1907).—Chapman and Crespin, 1928: 95, pl. 4, fig. 19 non Hedley, 1907.

Nuculana (Sacella) vagans (Tate, 1887).—Ludbrook, 1961a: 57, pl. 2, figs 5, 6.

Distribution: Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.

***Sacella acuticauda* (Pritchard, 1901) comb. nov.**

Leda acuticauda Pritchard, 1901: 27, pl. 3, figs 4, 4a.

Distribution. Otway Basin: Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. **Age:** middle Miocene.

Scaeolea Iredale, 1929***Scaeolea crebrecoata* (Tenison Woods, 1877)**

Leda crebrecoata Tenison Woods, 1877: 112; Tate, 1886b: 133, pl. 5, figs 5a, b.

Nuculana (Scaeolea) crebrecoata (Tenison Woods, 1877).—Ludbrook, 1955: 20, pl. 1, fig. 6; Ludbrook, 1967: 65, pl. 2, fig. 40.

Distribution. St Vincent Basin: Dry Creek Sands. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene, middle Miocene.

***Scaeolea woodsi* (Tate, 1886)**

Leda inconspicua Reeve: Tenison Woods, 1879a: 239, pl. 21, fig. 3, non A. Adams, 1856.

Leda woodsi Tate, 1886b: 133, pl. 9, fig. 8.

Nuculana woodsi (Tate, 1886).—Harris, 1897: 349.

Nuculana (Scaeolea) woodsi (Tate, 1886).—Ludbrook, 1955: 20, pl. 1, fig. 5; Ludbrook, 1961a: 59, pl. 3 figs 5, 6.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin; Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone. **Age:** late Oligocene—middle Miocene.

***Scaeolea verconis* (Tate, 1891)**

Nuculana (Scaeolea) verconis (Tate, 1891).—Ludbrook, 1955: 21, pl. 1, fig. 7; Ludbrook, 1978: 37, pl. 1, figs 1, 2.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Southern Australia (living). **Age:** middle Miocene, late Pliocene—present.

***Scaeolea acinaciformis* (Tate, 1886)**

Leda acinaciformis Tate, 1886b: 130, pl. 5, figs 6a, b.

Nuculana acinaciformis (Tate, 1886).—Harris, 1897: 349.

Nuculana (Scaeolea) acinaciformis (Tate, 1886).—Ludbrook, 1961a: 59, pl. 2, figs 7, 8; Ludbrook, 1978: 36, pl. 1, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. **Age:** late Miocene—late Pliocene.

***Scaeolea crassa* (Hinds, 1843)**

Nuculana crassa (Hinds, 1843).—Harris, 1897: 350.

Distribution. Otway Basin: Whalers Bluff Formation. Werriook Limestone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Memana Formation. Southern-eastern Australia (living). **Age:** early Pliocene—present.

***Scaeolea killara* (Singleton, 1941)**

Nuculana (Scaeolea) killara Singleton, 1941: 424, pl. 20, fig. 2.

Distribution. Otway Basin: Werriook Limestone. **Age:** late Pliocene.

Remarks. Holotype missing fide Singleton (1945: 265 see general references).

Family Malletiidae*Neilo (Australoneilo)* Zinsmeister, 1984***Neilo (Australoneilo) cultrata* Darragh, 1994***Neilo (Australoneilo) cultrata* Darragh, 1994: 79, Figs 1A–G.*Distribution.* Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Superfamily Sareptoidea

Family Sareptidae*Sarepta* A. Adams, 1860***Sarepta austranaxa* Stilwell, 2005***Sarepta austranaxa* Stilwell, 2005: 332, Figs 2A–E.*Distribution.* Perth Basin: Kings Park Shale (type). *Age:* late Paleocene.***Sarepta planiuscula* (Tate, 1886)***Leda planiuscula* Tate, 1886b: 130, pl. 5, fig. 2.*Sarepta planiuscula* (Tate, 1886).—Chapman and Singleton, 1927: 116, pl. 10, figs 8–12; Chapman and Crespin, 1928: 96, pl. 5, fig. 23?; Darragh and Kendrick, 2000: 22, Fig. 2I; Darragh and Kendrick, 2008: 221, Fig. 1.4.*Ovaleda planiuscula* (Tate, 1886).—Ludbrook, 1961a: 61, pl. 3, figs 3, 4.*Distribution.* Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Glen Aire Clay. *Age:* late Eocene–late Oligocene.***Sarepta obolella* (Tate, 1886)***Leda obolella* Tate, 1886b: 129, pl. 5, fig. 3a, b.*Nuculana obolella* (Tate, 1886).—Harris, 1897: 352.*Sarepta obolella* (Tate, 1886).—Chapman and Singleton, 1927: 116, pl. 10, figs 2–7.*Ovaleda obolella* (Tate, 1886).—Ludbrook, 1961a: 60, pl. 3, figs 1, 2.*Distribution:* Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. Port Phillip Basin: Gellibrand Formation.

Order Solemyida

Family Solemyidae*Solemya****Solemya kingsparki* Stillwell, 2005***Solemya kingsparki* Stillwell, 2005: 333, Fig. 2F.*Distribution.* Perth Basin: Kings Park Formation (type). *Age:* late Paleocene.

Subclass Autobranchia

Order Arcida

Superfamily Arcoidea

Family Arcidae*Arca* Linnaeus, 1758***Arca pseudonavicularis* Tate, 1886***Arca pseudonavicularis* Tate, 1886b: 139, pl. 11, figs 8a, b.—Ludbrook, 1965: 94, pl. 3, figs 30, 31; Darragh and Kendrick, 1980: 9, Fig. 2G; Darragh and Kendrick, 2000: 22, Fig. 2A, B.*Distribution.* Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.***Arca capulopsis* Pritchard, 1901***Arca capulopsis* Pritchard, 1901, 23, pl. 2 figs 1, 2.—Ludbrook, 1965: 94, pl. 4, figs 1–3.*Distribution.* Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.***Arca negata* Cotton, 1947***Arca negata* Cotton, 1947: 656, pl. 20, figs 11, 12; .—Ludbrook, 1955: 21.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.*Barbatia* Gray, 1842***Barbatia equidens* (Tate, 1886)***Arca equidens* Tate, 1886b: 139, pl. 11, fig. 9.—Harris, 1897: 331.*Barbatia (Cucullaearca) equidens* (Tate, 1886).—Ludbrook, 1965: 100, pl. 4, figs 4–7.*Distribution.* St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.***Barbatia limatella* Tate 1886***Barbatia limatella* Tate, 1886b: 141, pl. 10, fig. 2.—Ludbrook, 1965: 97, pl. 3, figs 21–23; Darragh and Kendrick, 1980: 11, Figs 2H, I.*Distribution.* Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation.***Barbatia consutilis* Tate 1886***Barbatia consutilis* Tate, 1886b: 142, pl. 2, fig. 15.—Ludbrook, 1965: 96, pl. 3, figs 24–27.*Arca (Barbatia) consutilis* (Tate, 1886).—Harris, 1897: 332.*Distribution.* Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.***Barbatia pumila* Tate, 1886***Barbatia pumila* Tate, 1886b: 142, pl. 10, fig. 7.—Ludbrook, 1965: 97, pl. 5, figs 15–18.*Arca (Barbatia) pumila* (Tate, 1886).—Harris, 1897: 334.*Distribution.* Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. *Age:* middle Miocene.***Barbatia epitheca* Cotton, 1947***Barbatia epitheca* Cotton, 1947: 657, pl. 20, figs 14, 17.—Ludbrook, 1955: 21.*Distribution.* St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Species doubtful, juvenile specimens, indeterminate?

Arca (Barbatia) microundula Chapman and Crespin, 1928: 98, pl. 3, fig. 12a, b.

Distribution. Port Phillip Basin. Gellibrand Formation (type).
Age: late Miocene.

Arca (Barbatia) dissimulina Chapman and Crespin, 1928: 98, pl. 3, fig. 13a, b.

Distribution. Port Phillip Basin. Gellibrand Formation (type).
Age: late Miocene.

Acar Gray, 1857

***Acar gunsoni* (Darragh and Kendrick, 1980)**

Barbatia (Acar) gunsoni Darragh and Kendrick, 1980: 11, Figs 2J–L.

Distribution. Eucla Basin: Pallinup Formation (type), Werillup Formation? St Vincent Basin: Blanche Point Formation. *Age:* late Eocene.

***Acar crustata* (Tate, 1886)**

Barbatia crustata Tate, 1886b: 140, pl. 2, fig. 16.

Arca (Barbatia) crustata (Tate, 1886).—Harris, 1897: 333.

Barbatia (Acar) crustata Tate, 1886.—Ludbrook, 1965: 99, pl. 5, figs 19–25.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Muddy Creek Formation, Gellibrand Formation. *Age:* middle Miocene.

***Acar simulans* (Tate, 1886)**

Barbatia simulans Tate, 1886b: 142, pl. 11, fig. 10.

Arca (Barbatia) simulans (Tate, 1886).—Harris, 1897: 333.

Barbatia (Acar) simulans Tate, 1886.—Ludbrook, 1965: 99, pl. 3, figs 28, 29.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Acar celleporacea* (Tate, 1886)**

Barbatia celleporacea Tate, 1886b: 141, pl. 10, figs 10a, b.

Arca (Barbatia) celleporacea (Tate, 1886).—Harris, 1897: 332.

Arca coma Cotton, 1947: 657, pl. 20, figs 25, 26.—Ludbrook, 1955: 22.

Barbatia (Acar) celleporacea Tate, 1886.—Ludbrook, 1965: 98, pl. 5, figs 10–14.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). Bass Basin: Freestone Cove Sandstone. *Age:* early Miocene–middle Miocene.

***Acar* sp. cf. *Acar squamosa* (Lamarck, 1819)**

Barbatia (Acar) sp. cf. *B. (A.) squamosa* (Lamarck, 1819).—Ludbrook, 1978: 37, pl. 1, figs 5, 6.

Distribution. Eucla Basin: Roe Calcarenite. Southern and eastern Australia (living). *Age:* late Pliocene–present.

Notogrammatodon Maxwell, 1966

***Notogrammatodon cainozoicus* (Tate, 1886)**

Macrodon cainozoicus Tate, 1886b: 143, pl. 10, figs 4a–c.

Barbatia (Plagiarca) cainozoica (Tate, 1886).—Harris, 1897: 335; Ludbrook, 1965: 101, pl. 5, figs 1–9.

Notogrammatodon cainozoicus (Tate, 1886).—Darragh and Kendrick, 2000: 22, Fig. 2C.

Distribution. Eucla Basin: Werillup Formation, Pallinup Formation. St Vincent Basin: Blanche Point Formation. Murray Basin: Cadell Marl. Otway Basin: Browns Creek Formation, Glen Aire Clay, Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone. *Age:* late Eocene–middle Miocene.

Hawaiarca Dall, Bartsch and Rehder, 1938

***Hawaiarca interclathrata* (Ludbrook, 1965) comb. nov.**

Anadara interclathrata Ludbrook, 1965: 102, pl. 4, figs 8, 10.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

Family Cucullaeidae

Cucullaea Lamarck, 1801

***Cucullaea psephea* Singleton, 1943**

Cucullaea (Cucullona) psephea Singleton, 1943: 270, pl. 13, figs 7a, b, 8a, b.

Cucullaea psephea Singleton, 1943.—Ludbrook, 1973: pl. 24, figs 1, 3; Darragh, 1994: 81, Figs 2A–G.

Distribution. Otway Basin. Pebble Point Formation (type). *Age:* late Paleocene.

***Cucullaea adelaidensis* Tate 1886**

Cucullaea adelaidensis Tate, 1886b: 144, pl. 11, figs 14a, b.—Singleton, 1932: 304, pl. 26, figs 21a, b, 22–24; Ludbrook, 1965: 102, pl. 4, figs 11–15.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Cucullaea* sp. cf. *C. adelaidensis* Tate, 1886**

Cucullaea sp. cf. *C. adelaidensis* Tate, 1886.—Darragh and Kendrick, 2010: 25, Figs 1G, H, K.

Distribution. Carnarvon Basin: Merlinleigh Sandstone. *Age:* late Eocene.

***Cucullaea corioensis* McCoy, 1876**

Cucullaea corioensis McCoy, 1876: 32, pl. 27, figs 3–5a, b.—Johnston, 1888: pl. 29, figs 4, 4a; Harris, 1897: 336; Singleton, 1932: 300, pl. 26, fig. 19a, b; Ludbrook, 1955: 22, pl. 1, figs 8, 9; Ludbrook, 1961b: pl. 7, figs 12, 13; Ludbrook, 1965: 103, pl. 4, figs 16–24; Ludbrook, 1973: pl. 24, fig. 2.

Cucullaea praelonga Singleton, 1932.—Ludbrook, 1955: 23, pl. 5, fig. 15 non Singleton, 1932.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation (type), Gellibrand Formation. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. *Age:* late Oligocene–middle Miocene

***Cucullaea praelonga* Singleton, 1932**

Cucullaea corioensis praelonga Singleton, 1932: 303, pl. 26, fig. 20a, b.

Cucullaea praelonga Singleton, 1932.—Crespin, 1950: 150, pl. 15, fig. 12.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Age: late Miocene–late Pliocene.

Species indet.

Cucullea [sic] *minuta* Johnston, 1880: 39. May (1919: 73) stated that the type was probably a young shell and crushed so recommended the name be abandoned. The name is also preoccupied by *Cucullaea minuta* J. de C. Sowerby, 1824.

Family Noetidae

Quadrilatera Deshayes, 1860

***Quadrilatera dissimilis* (Tate, 1886) comb. nov.**

Barbatia dissimilis Tate, 1886b: 140, pl. 11, figs 4, 5.

Arca (*Fossularca*) *dissimilis* (Tate, 1886).—Harris, 1897: 336.

Arcopsis dissimilis (Tate, 1886).—Ludbrook, 1965: 95, pl. 5, figs 26, 31; Darragh and Kendrick, 1980: 13, Figs 2M, N.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Family Glycymerididae

Glycymeris da Costa, 1778

***Glycymeris* sp.**

Glycymeris sp. Darragh, 1997: 101, Figs 12I, P.

Distribution. Otway Basin. Pebble Point Formation. Age: late Paleocene.

***Glycymeris maudensis* Chapman and Singleton, 1925**

Glycymeris maudensis Chapman and Singleton, 1925: 35, pl. 2, figs 13a, b, pl. 4, fig. 9.

Distribution. Port Phillip Basin. Lower Maud Limestone (type). Age: early Miocene.

***Glycymeris cainozoica* (Tenison Woods, 1877)**

Cucullaea cainozoica Tenison Woods, 1877: 111.

Pectunculus cainozoicus (Tenison Woods, 1877).—Tate, 1886b: 136, pl. 10, figs 8a, b (justified spelling emendation); Johnston, 1888: pl. 31, figs 13, 13a, b; Harris, 1897: 340.

Glycymeris cainozoica (Tenison Woods, 1877).—Chapman and Singleton, 1925: 20, pls 1, figs 1a, b, 2a, b, 3, 4, pl. 4, figs 1–3.

Glycymeris cainozoica (Tenison Woods, 1877).—Ludbrook, 1965: 87, pl. 1, figs 28–34; Ludbrook, 1967: 65, pl. 1, figs 7–12.

Distribution. St Vincent Basin: Blanche Point Formation. Murray Basin: Cadell Marl, Bookpurnong Formation. Otway Basin: Fishing Point Marl, Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation, Sandringham Sandstone. Bass Basin: Freestone Cove Sandstone (type). Age: late Eocene–late Miocene.

***Glycymeris* sp. cf. *G. cainozoica* (Tenison Woods, 1877)**

Glycymeris sp. cf. *G. cainozoica* (Tenison Woods, 1877).—Darragh and Kendrick, 2010: 26, Figs 1B, C.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. Age: late Eocene.

***Glycymeris halli* Pritchard, 1903**

Glycymeris halli Pritchard, 1903a: 89, pl. 15, figs 1, 2, 8.

Glycymeris halli intermedius Pritchard, 1903a: 90, pl. 14, figs 10, 11 non Broderip, 1832.

Glycymeris halli mistio Finlay, 1927: 524 nom. nov. for *Glycymeris halli intermedius* Pritchard, 1903 non Broderip, 1832.

Glycymeris (*G.*) *halli* Pritchard, 1903.—Chapman and Singleton, 1925: 40, pl. 3, fig. 23, pl. 4, fig. 15; Ludbrook, 1965: 87, pl. 1, figs 35, 36; Ludbrook, 1973: pl. 27, fig. 76.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Bass Basin: Cameron Inlet Formation. Age: late Miocene–late Pliocene.

***Glycymeris tenuicostata* (Reeve, 1843)**

Glycymeris tenuicostata (Reeve, 1843).—Chapman and Singleton, 1925: 36, pl. 2, figs 14, 15a, b, pl. 4, figs 10, 11;

Tucetilla rota Cotton, 1947: 659, pl. 20, figs 3, 4.

Glycymeris (*Tucetilla*) *tenuicostata* (Reeve, 1843).—Ludbrook, 1955: 26.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Werrikoo Limestone. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Wuk Wuk Marl, Tambo River Formation, Jemmys Point Formation. Northern Australia (living). Age: early Miocene–present.

***Glycymeris halli paucicostata* Pritchard, 1903**

Glycymeris halli paucicostatus Pritchard, 1903a: 90, pl. 14, fig. 12, pl. 15, fig. 9.

Glycymeris halli paucicostata Pritchard, 1903.—Chapman and Singleton, 1925: 42.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: early Pliocene.

***Glycymeris radians* (Lamarck, 1819)**

Glycymeris (*Tucetilla*) *radians* (Lamarck, 1819).—Ludbrook, 1978: 41, pl. 1, fig. 19; Ludbrook, 1983: 39; Ludbrook, 1984: 238, fig. 58f.

Distribution. Eucla Basin: Roe Calcarene. St Vincent Basin. Point Ellen Formation. Otway Basin: Whalers Bluff Formation. Bass Basin: Memana Formation. Southern Australia (living). Age: late Pliocene–present.

***Glycymeris striatularis* (Lamarck, 1819):**

Glycymeris striatularis (Lamarck, 1819).—Chapman and Singleton, 1925: 46, pl. 3, fig. 31, pl. 4, fig. 21.

Glycymeris (*Tucetilla*) *striatularis* (Lamarck, 1819).—Ludbrook, 1978: 42, pl. 1, figs 17, 18.

Distribution. Eucla Basin: Roe Calcarene. Otway Basin: Werrikoo Limestone. Southern Australia (living). Age: late Pliocene–present.

***Glycymeris pseudaustralis* Singleton, 1941**

Glycymeris (Veletuceta) pseudaustralis Singleton, 1941: 425, pl. 20, figs 4, 5.—Ludbrook, 1983: 39, figs 2c, d; Ludbrook, 1984: 238, Fig. 58c.

Distribution. St Vincent Basin: Point Ellen Formation. Otway Basin: Werriook Limestone (type). *Age:* late Pliocene.

***Glycymeris subradians* Tate, 1902**

Glycymeris subradians Tate in Basedow, 1902: 132.—Chapman and Singleton, 1925: 39, pl. 3, figs 21, 22, pl. 4, fig. 14.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.

***Glycymeris mayi* (Cotton, 1947)**

Glycymeris (Tucetilla) mayi (Cotton, 1947).—Ludbrook, 1978: 41, pl. 1, figs 9, 10.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Glycymeris flammea* (Reeve, 1843)**

Distribution. Bass Basin: Memana Formation. Southern and eastern Australia (living). *Age:* early Pleistocene–present.

Tucetona* Iredale, 1939**Tucetona lenticularis* (Tate, 1886)**

Pectunculus lenticularis Tate, 1886b: 138, pl. 11, fig. 1.

Glycymeris lenticularis (Tate, 1886).—Chapman and Singleton, 1925: 31, pl. 1, figs 8a, b, pl. 4, fig. 6.

Glycymeris (Tucetona) lenticularis (Tate, 1886).—Ludbrook, 1965: 93, pl. 3, figs 11–13.

Tucetona lenticularis (Tate, 1886).—Darragh and Kendrick, 2000: 24, fig. 2J; Darragh and Kendrick, 2008: 223, Figs 1.8, 1.12.

Distribution. Southern Carnarvon Basin: unnamed sandstone. Eucla Basin: Werillup Formation, Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* middle Eocene–early Oligocene.

***Tucetona ornithopetra* (Chapman and Singleton, 1925) comb. nov.**

Pectunculus laticostatus Quoy and Gaimard, 1835.—McCoy, 1875b: 26, pl. 19, figs 10, 10a, 11, 14 [labelled 9 on plate], non Quoy and Gaimard, 1835.

Pectunculus maccoyi Johnston.—Johnston, 1888, pl. 31, figs 1, 1a–d (copies of McCoy's figures) non Johnston, 1880.

Glycymeris maccoyi (Johnston).—Chapman and Gabriel, 1914: 303, pl. 24, figs 2, 3; Chapman, 1916: pl. 67, figs 2, 3, non Johnston, 1880.

Glycymeris ornithopetra Chapman and Singleton, 1925: 32, pl. 2, figs 9a, b, pl. 4, fig. 7.

Glycymeris (Grandaxinea) ornithopetra Chapman and Singleton, 1925.—Ludbrook, 1965: 90, pl. 2, figs 1, 2, 4, 5, pl. 3, fig. 14?

Distribution. Otway Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Tucetona maccoyi* (Johnston, 1880) comb. nov.**

Pectunculus maccoyi Johnston, 1880: 41.—Tate, 1886b: 137.

Glycymeris maccoyi (Johnston).—Chapman and Gabriel, 1914: 303, pl. 24, fig. 4; Chapman, 1916: pl. 67, fig. 4.

Glycymeris maccoyi (Johnston, 1880).—Chapman and Singleton, 1925: 27, pl. 1, figs 7a, b, pl. 4, fig. 5.

Glycymeris (Grandaxinea) maccoyi (Johnston, 1880).—Ludbrook, 1965: 89, pl. 3, fig. 1.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Tucetona* sp.**

Glycymeris (Tucetona) sp. McNamara and Kendrick, 1994: 17, Fig. 8A.

Distribution. Carnarvon Basin: Poivre Formation, Trealla Limestone. *Age:* middle Miocene.

***Tucetona granti* Singleton, 1932 comb. nov.**

Glycymeris (Grandaxinaea) granti Singleton, 1932: 294, pl. 24, figs 10a, b, 11.—Ludbrook, 1965: 88, pl. 2, figs 3, 6.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Tucetona subtrigonalis* (Tate, 1886)**

Pectunculus subtrigonalis Tate, 1886b: 137, pl. 11, figs 6a, b.—Harris, 1897: 340.

Glycymeris subtrigonalis (Tate, 1886).—Chapman and Singleton, 1925: 34: pl. 2, figs 10–12, pl. 4, fig. 8; Ludbrook, 1961b: pl. 7, figs 8, 9; Ludbrook, 1969b: Fig. 96.6.

Glycymeris (Tucetona) subtrigonalis (Tate, 1886).—Ludbrook, 1965: 93, pl. 3, figs 2–4.

Distribution. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Tucetona gunyoungensis* (Chapman and Singleton, 1925)**

Pectunculus laticostatus (Quoy and Gaimard).—McCoy, 1875b, 26, pl. 19, figs 12, 13; Harris, 1897: 341 (in part), non Quoy and Gaimard.

Glycymeris maccoyi (Johnston).—Chapman and Gabriel, 1914: 304, pl. 24, fig. 1; Chapman, 1916: pl. 67, fig. 1 non Johnston, 1880.

Glycymeris gunyoungensis Chapman and Singleton, 1925: 23, pl. 1, figs 5a, b, 6, pl. 4, fig. 4.

Glycymeris (Tucetona) gunyoungensis Chapman and Singleton, 1925: Ludbrook, 1965: 92, pl. 3, figs 5–8.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). Gippsland Basin: Tambo River Formation. *Age:* middle–late Miocene.

***Tucetona convexa* (Tate, 1886)**

Pectunculus convexus Tate, 1886b: 138, pl. 11, figs 7a, b.—Harris, 1897: 342.

Glycymeris maccoyi (Johnston).—Chapman and Gabriel, 1914: 303, pl. 24, fig. 5; Chapman, 1916: pl. 67, fig. 5, non Johnston, 1880.

Glycymeris convexa (Tate, 1886).—Chapman and Singleton, 1925: 37, pl. 2, figs 16a, b, 17–20, pl. 4, figs 12, 13.

Tucetona crama Cotton, 1947: 660, pl. 20, figs 1, 2.

Glycymeris (Tucetona) convexa (Tate, 1886).—Ludbrook, 1955: 26; Ludbrook, 1965: 90, pl. 3, figs 15–20; Ludbrook, 1973: pl. 27, fig. 84; Ludbrook, 1983: 39, fig. 2e; Ludbrook, 1984: 238, Figs 58d, e.

Distribution. St Vincent Basin: Dry Creek Sands, Point Ellen Formation, Hallett Cove Sandstone. Murray Basin: Bookpurnong Formation, Norwest Bend Formation. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Bass Basin: Cameron Inlet Formation. *Age:* middle Miocene–late Pliocene.

***Tucetona decurrens* (Chapman and Singleton, 1925)**

Glycymeris decurrens Chapman and Singleton, 1925: 42, pl. 3, figs 24, 25, pl. 4, fig. 16.

Glycymeris (Tucetona) decurrens Chapman and Singleton, 1925: Ludbrook, 1965: 91, pl. 3, figs 9, 10.

Distribution. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. *Age:* early Pliocene.

***Tucetona lowryi* (Ludbrook, 1978)**

Glycymeris (Tucetona) lowryi Ludbrook, 1978: 40, pl. 1, figs 11–14.

Distribution. Eucla Basin: Roe Calcarenite, unnamed dune limestone (type). *Age:* late Pliocene, Pleistocene.

***Tucetona flabellata* (Tenison Woods, 1878)**

Glycymeris flabellata (Tenison Woods, 1878).—Chapman and Singleton, 1925: 45, pl. 3, figs 29, 30, pl. 4, figs 19, 20.

Glycymeris (Tucetona) flabellata (Tenison Woods, 1878).—Ludbrook, 1978: 40, pl. 1, figs 15, 16.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Werriko Limestone. Southern Australia (living). *Age:* late Pliocene–present.

Melaxinaea Iredale, 1930

***Melaxinaea planiuscula* (Chapman and Singleton, 1925) comb. nov.**

Glycymeris planiuscula Chapman and Singleton, 1925: 43, pl. 3, figs 26–28, pl. 4, figs 17, 18.—Matsukuma, 1980: 208.

Distribution. Otway Basin: Grange Burn Formation, Werriko Limestone. *Age:* early–late Pliocene.

Superfamily Limpoidea

Family Limposidae

Limopsis Sasso, 1827

***Limopsis rupestris* Darragh, 1994**

Limopsis sp. Singleton, 1943: 271, pl. 12, figs 2a, b.

Limopsis rupestris Darragh, 1994: 83, Figs 3A, B, F, G, J.—Stilwell, 2003: 251, Figs 4D–I; Whittle et al., 2011: Fig. 5A.

Distribution. Otway Basin. Pebble Point Formation (type). Dilwyn Formation. *Age:* late Paleocene–early Eocene.

***Limopsis multiradiata* Tate, 1886**

Limopsis multiradiata Tate, 1886b: 135, pl. 12, figs 1a, b.—Harris, 1897: 346; Chapman, 1911: 423, pl. 84, fig. 4, pl. 85, fig. 10; Ludbrook, 1965: 86, pl. 1, figs 23–27; Darragh and Kendrick, 1980: 13; Whittle et al., 2011: Fig. 5C.

Distribution. Eucla Basin: Pallinup Formation? St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Limopsis chapmani* Singleton, 1932**

Limopsis aurita (Brocchi).—McCoy, 1875b: 23, pl. 19, figs 5, 6, 6a, b, 7; Tate, 1886b: 134; Johnston, 1888: pl. 32, fig. 7, non Brocchi.

Limopsis insolita (G. B. Sowerby).—Tate, 1886b: 134; Chapman, 1911: 425, pl. 84, fig. 5, pl. 85, fig. 11 non G. B. Sowerby.

Limopsis chapmani Singleton, 1932: 296, pl. 24, figs 12–14, pl. 25, fig. 16a–c.—Ludbrook, 1965: 83, pl. 1, figs 1–9; Darragh and Kendrick, 1980: 13, Figs 2O–R; Darragh and Kendrick, 2000: 24; Darragh and Kendrick, 2008: 221, Fig. 1.21; Whittle et al., 2011: Fig. 5B.

Distribution. Eucla Basin: Werillup Formation, Pallinup Formation. St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation, Glen Aire Clay. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Eocene–late Oligocene.

***Limopsis* sp.**

Limopsis sp. Hedley, 1906: 545, pl. 32, fig. 17.

Distribution. St Vincent Basin: Blanche Point Formation. *Age:* late Eocene.

***Limopsis chapmani valida* Singleton, 1932**

Limopsis chapmani valida Singleton, 1932: 299, pl. 25, fig. 17a–c.

Distribution. Otway Basin: Gellibrand Formation (type). *Age:* early Miocene.

***Limopsis maccoyi* Chapman, 1911**

Limopsis belcheri (Adams and Reeve).—McCoy, 1875b: 25, pl. 19 figs 8, 8a, 9; Tate, 1886b: 134; Harris, 1897: 345, non Adams and Reeve.

Limopsis maccoyi Chapman, 1911: 421, pl. 83, fig. 2, pl. 85, fig. 8.—Ludbrook, 1955: 24, pl. 1, fig. 10; Ludbrook, 1965: 84, pl. 1, figs 17–22; Whittle et al., 2011: Fig. 5F.

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene–middle Miocene?

***Limopsis morningtonensis* Pritchard, 1901**

Limopsis morningtonensis Pritchard, 1901: 24, pl. 2, figs 6, 6a.—Chapman 1911: 420, pl. 83, fig. 1, pl. 85, fig. 7; Ludbrook, 1965: 85, pl. 1, figs 11–13; Whittle et al., 2011: Fig. 5D.

Distribution. Otway Basin: Muddy Creek Formation, Gellibrand Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Limopsis beaumariensis* Chapman, 1911**

Limopsis beaumariensis Chapman, 1911: 423, pl. 84, fig. 6, pl. 85, fig. 12.—Ludbrook, 1955: 23, pl. 5, fig. 7; Ludbrook, 1965: 83, pl. 1, figs 10, 14–16; Whittle et al., 2011: Fig. 5E.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Sandringham Sandstone (type). Gippsland Basin: Tambo River Formation, Jemmys Point Formation. *Age:* middle–late Miocene.

***Limopsis eucosmus* Verco, 1907**

Limopsis eucosmus Verco, 1907.—Ludbrook, 1955: 24, pl. 1, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age:* middle Miocene–present.

***Limopsis vixornata* Verco 1907**

Limopsis (Limopsis) vixornata Verco 1907.—Ludbrook, 1955: 24, pl. 1, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age:* middle Miocene–present.

***Limopsis beaumariensis depressa* Chapman, 1911**

Limopsis beaumariensis depressa Chapman, 1911: 424.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

***Limopsis werrikoensis* Singleton, 1941**

Limopsis werrikoensis Singleton, 1941: 425, pl. 20, figs 3a, b.—Whittle et al., 2011, Fig. 5H.

Distribution. Otway Basin. Werriko Limestone (type). *Age:* late Pliocene.

***Limopsis tenisoni* Tenison Woods, 1877**

Limopsis tenisoni Tenison Woods, 1878.—Ludbrook, 1978: 39.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Limopsis forteradiata* Cotton, 1930**

Limopsis forteradiata Cotton, 1930.—Ludbrook, 1978: 38, pl. 1, figs 7, 8.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Species doubtful, juvenile specimens, indeterminate?

Limopsis affinitalis Chapman and Crespín, 1928: 96, pl. 3, fig. 14a, b; Whittle et al., 2011: Fig. 5G.

Distribution. Port Phillip Basin. Gellibrand Formation (type). *Age:* late Miocene.

Superfamily Philobryoidea
Family Philobryidae
Limarca Tate, 1886

***Limarca angustifrons* Tate, 1886**

(Type species of genus OD)

Limarca angustifrons Tate, 1886b: 135, pl. 8, figs 5a, b.—Harris, 1897: 344; Ludbrook, 1973: pl. 24, figs 16–17; Tevesz, 1977: 15, Figs 7A, B; Darragh and Kendrick, 2000: 24, Figs 2E, F.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Glen Aire Clay. *Age:* late Eocene–early Oligocene.

Lissarca E. A. Smith, 1877

***Lissarca cincturata* Chapman and Crespín, 1928**

Lissarca cincturata Chapman and Crespín, 1928: 97, pl. 3, fig. 15.

Distribution. Port Phillip Basin. Gellibrand Formation (type). *Age:* middle Miocene.

***Lissarca rubricata* (Tate, 1887)**

Lissarca rubricata (Tate, 1887).—Chapman and Gabriel, 1914: 302; Ludbrook, 1955: 25, pl. 1, fig. 14.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. Southern Australia (living). *Age:* middle Miocene–present.

***Lissarca rhomboidalis* Verco, 1907**

Lissarca rhomboidalis Verco, 1907.—Ludbrook, 1955: 25, pl. 1, fig. 16.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age:* middle Miocene–present.

Cosa Finlay, 1926

***Cosa praenuntia* (Tate, 1898) comb. nov.**

Philobrya praenuntia Tate, 1898d: 88, pl. 4, fig. 9.

Distribution. Otway Basin: Glen Aire Clay (type). *Age:* early Oligocene.

***Cosa bernardi* (Tate, 1898) comb. nov.**

Philobrya bernardi, Tate 1898d: 88, pl. 4, fig. 10.—Chapman and Crespín, 1928: 99, pl. 4, fig. 16.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* early–middle Miocene.

Order Mytilida
Superfamily Mytiloidea
Family Mytilidae
Mytilus Linnaeus, 1758

***Mytilus deperditus* Tate, 1887**

Mytilus deperditus Tate, 1887a: 187, pl. 19, fig. 1.

Distribution. Otway Basin. Grange Burn Formation (type). *Age:* early Pliocene.

***Mytilus planulatus* Lamarck, 1819**

Distribution. Bass Basin: Memana Formation. Southeastern Australia (living). *Age:* early Pleistocene–present.

Brachidontes Swainson, 1840

***Brachidontes mooraboolensis* (Pritchard, 1903) comb. nov.**

Mytilus mooraboolensis Pritchard, 1903a: 88, pl. 14, fig. 1.

Distribution. Port Phillip Basin: Jan Juc Formation (type), Lower Maude Limestone. *Age:* late Oligocene.

***Brachidontes hirsutus* (Lamarck, 1819)**

Brachidontes hirsutus (Lamarck, 1819).—Ludbrook, 1955: 36, pl. 4, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands. Southern and eastern Australia (living). *Age:* middle Miocene–present.

***Brachidontes linguatulus* (Tate, 1887) comb. nov.**

Mytilus linguatulus Tate, 1887a: 187, pl. 19, fig. 3.—Ludbrook, 1973: pl. 27, fig. 81?

Distribution. Murray Basin: Bookpurnong Formation? Otway Basin. Grange Burn Formation (type). Age: middle Miocene?, early Pliocene.

***Brachidontes submenkeanus* (Tate, 1886)**

Mytilus submenkeanus Tate, 1886b: 124.

Brachidontes submenkeanus (Tate, 1886).—Ludbrook, 1955: 80, pl. 6, fig. 12.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Age: late Pliocene.

***Brachidontes suberosus* (Singleton, 1941) comb. nov.**

Aulacomya suberosa Singleton, 1941: 427, pl. 20, fig. 7.

Distribution. Otway Basin: Werrikoo Limestone (type). Age: late Pliocene.

***Brachidontes erosus* (Lamarck, 1819)**

Brachidontes erosus (Lamarck, 1819).—Ludbrook, 1978: 43, pl. 1, fig. 25.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Septifer Récluz, 1848

***Septifer subfenestratus* Basedow, 1904**

Septifer subfenestratus Basedow, 1904: 251, Text fig. —Darragh and Kendrick, 2000: 25, Figs 2D, G.

Septifer (*Septifer*) sp. cf. *S. (S.) fenestratus* Tate: Darragh and Kendrick, 1980: 13, Figs 3A–C.

Distribution. Eucla Basin: Pallinup Siltstone. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Septifer fenestratus* Tate, 1886**

Septifer fenestratus Tate, 1886b: 124, pl. 9, fig. 1.—Harris, 1897: 328.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin; Gellibrand Formation. Age: middle Miocene.

Trichomya Ihring, 1900

***Trichomya hamiltonensis* (Tate, 1887) comb. nov.**

Mytilus hamiltonensis Tate 1887a: 186, pl. 18, fig. 9.—Harris, 1897: 328.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

Musculus Röding, 1798

***Musculus semigranosa* (Tate, 1886) comb. nov.**

Modiolaria semigranosa Tate, 1886b: 125, pl. 3, fig. 5.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Musculus arcacea* (Tate, 1886) comb. nov.**

Modiolaria arcacea Tate, 1886b: 125, pl. 9, fig. 2a, b.

Distribution. St Vincent Basin: Rogue Formation (type). Age: late Eocene.

***Musculus balcombei* (Pritchard, 1901) comb. nov.**

Modiolaria balcombei Prichard, 1901: 29, pl. 3, fig. 2.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Musculus corioensis* (Tate, 1886) comb. nov.**

Modiolaria corioensis Tate, 1886b: 126, pl. 3, fig. 4.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Solamen Iredale, 1924

***Solamen singularis* (Tate, 1886) comb. nov.**

Modiolaria singularis Tate, 1886b: 125, pl. 3, fig. 7.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Exosiperna Iredale, 1929

***Exosiperna scapha* (Verco, 1908)**

Arcoperna scapha Verco, 1908: Chapman and Gabriel, 1914: 307, pl. 27, fig. 16; Chapman, 1916: pl. 70, fig. 16.

Distribution. Murray Basin: Bookpurnong Formation. Southern Australia (living). Age: middle Miocene–present.

Crenella T. Brown, 1827

***Crenella globularis* Tate, 1886**

Crenella globularis Tate, 1886b: 126, pl. 10, fig. 3a, b; Harris, 1897: 330.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Crenella* sp. aff. *Crenella globularis* Tate, 1886**

Solamen (*Exosiperna*) sp. aff. *globularis* (Tate, 1886).—Darragh and Kendrick, 2008: 223, Figs 1.1, 1.6.

Distribution. Southern Carnarvon Basin: unnamed sandstone Kalbarri. Age: late Eocene.

Lithophaga Röding, 1798

***Lithophaga brevis* Tate, 1887**

Lithodomus brevis Tate, 1887a: 186.

Lithophaga brevis (Tate, 1887).—Ludbrook, 1955: 79, pl. 6, fig. 13.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Age: late Pliocene.

Modiolus Lamarck, 1799***Modiolus adelaidensis* Tate, 1886**

Modiola adelaidensis Tate, 1886b: 123, pl. 11, fig. 3.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Age: late Eocene.

***Modiolus pueblensis* Pritchard, 1901**

Modiola pueblensis Pritchard, 1901: 26, pl. 3, fig. 1.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Modiolus latecaudatus* (Pritchard, 1903) comb. nov.**

Lithophagus latecaudatus Pritchard, 1903a: 88, pl. 14, fig. 4.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Modiolus mooraboolensis* Chapman, 1922**

Modiolus mooraboolensis Chapman, 1922: 7, pl. 3, fig. 17.

Distribution. Port Phillip Basin: Lower Maude Limestone (type). *Age:* late Oligocene.

***Modiolus praeruptus* Pritchard, 1901**

Modiola praerupta Pritchard, 1901: 25, pl. 2, figs 3, 4.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Modiolus lineus* (Hedley, 1907)**

Modiolus lineus (Hedley, 1907).—Chapman and Crespin, 1928: 100, pl. 4, fig. 17.

Distribution. Port Phillip Basin: Gellibrand Formation. Southern Australia (living). *Age:* late Miocene–present.

***Modiolus albicostatus* (Lamarck, 1819)**

Modiolus albicostatus (Lamarck, 1819).—Ludbrook, 1978: 44, pl. 1, fig. 24.

Distribution. Eucla Basin: Roe Calcarenite. Southern *Age:* late Pliocene–present.

Mytilid indet?

***Lithophaga fabaeformis* Crespin, 1926**

Lithophaga fabaeformis Crespin, 1926: 118, pl. 9, figs 14, 15.

Distribution. Gellibrand Formation (type). *Age:* middle Miocene.

Order Ostreida
Superfamily Pinnoidea
Family Pinnidae
Pinna Linnaeus, 1758

***Pinna* sp.**

Pinna sp. Darragh, 1994: 83, Figs 3U, V.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

Atrina Gray, 1842***Atrina janjukiensis* Crespin, 1950**

Atrina janjukiensis Crespin, 1950: 150, pl. 17, figs 18–20.

Atrina (Servatrina) janjukiensis Crespin, 1950.—Rosewater, 1961: 218, pl. 165, figs 2–4.

Distribution. Gippsland Basin. Lakes Entrance Formation (type). *Age:* late Oligocene.

***Atrina cordata* (Pritchard, 1895)**

Pinna cordata Pritchard, 1895: 228, pl. 12, figs 4, 5.

Atrina (Servatrina) cordata Pritchard, 1895.—Rosewater, 1961: 218, pl. 165, fig.1.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Atrina tateana* Hedley, 1924**

Pinna semicostata Tate, 1886b: 122, pl. 12, fig. 9 non Conrad, 1837.

Atrina tateana Hedley, 1924: 143 nom. nov. for *Pinna semicostata* Tate, 1886 non Conrad, 1837.

Pinna (Atrina) semicostata Tate, 1886.—Ludbrook, 1955: 28.

Atrina (Servatrina) tateana Hedley, 1924: Rosewater, 1961: 218, pl. 165, fig.5.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type).
Age: late Pliocene.

Streptopinna von Martens, 1880***Streptopinna?* reticosa (Chapman, 1912)**

Pinna reticosa Chapman, 1912b: 47, pl. 6, fig. 8.

Streptopinna? *reticosa* (Chapman, 1912).—Rosewater, 1961: 221, pl. 168.

Distribution. Bass Basin: unnamed limestone (type). *Age:* middle Miocene.

Superfamily Pterioidea

Family Pteriidae*Pteria* Scopoli, 1777***Pteria nasuta* (Tate, 1886) comb. nov.**

Avicula nasuta Tate, 1886b: 121, pl. 11, fig. 11, pl. 12, fig. 12.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Age: late Eocene.

***Pteria crassocardia* (Tate, 1886) comb. nov.**

Meleagrina crassocardia Tate, 1886b: 121, pl. 9, figs 9, 10.

?*Margaritifera crassocardia* (Tate, 1886).—Harris, 1897: 325.

Pinctada crassocardia (Tate, 1886).—Ludbrook, 1955: 27?

Distribution. St Vincent Basin: Dry Creek Sands? Murray Basin: Norwest Bend Formation (type). *Age:* Middle Miocene?, late Pliocene.

Family Isognomonidae*Isognomen* Lightfoot, 1786***Isognomen percassa* (Tate, 1899) comb. nov.**

Melina percassa Tate, 1899b: 276.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Family Vulsellidae
Electroma Stoliczka, 1871

***Electroma glessaria* Darragh, 1997**

Electroma sp. Darragh, 1994: 84, Figs 3C, D, I.
Electroma glessaria Darragh, 1997: 101, Figs 11M–O.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Vulsella Röding, 1798

***Vulsella laevigata* Tate, 1886**

Vulsella laevigata Tate, 1886b: 122, pl. 3, figs 3a, b.—Harris, 1897: 326; Darragh and Kendrick, 1980: 15, Figs 3D–H.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Tortachilla Limestone (type). *Age:* late Eocene.

***Vulsella* sp. cf. *V. laevigata* Tate, 1886**

Vulsella sp. cf. *V. laevigata* Tate, 1886: Darragh and Kendrick, 2008: 224, Fig. 1.11.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

Superfamily Ostreoidea
Family Ostreidae
Ostrea Linnaeus, 1758

***Ostrea tatei* Suter, 1913**

Ostrea hippopus Tate, 1886b: 98, pl. 4, figs 1a, b non Lamarck, 1818.
Ostrea tatei Suter, 1913: 889 nom. nov. for *Ostrea hippopus* Tate, 1886 non Lamarck, 1818.

Distribution. St Vincent Basin: Tortachilla Limestone (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Ostrea manubriata* Tate, 1887**

Ostrea manubriata Tate, 1887a: 184, pl. 19, fig. 10.—Harris, 1897: 300.

Distribution. Otway Basin: Grange Burn Formation (type). Whalers Bluff Formation. *Age:* early Pliocene.

***Ostrea arenicola* Tate, 1886**

Ostrea arenicola Tate, 1886b: 97, pl. 10, fig. 6.—Harris, 1897: 300; Ludbrook, 1955: 29; Cotton, 1947: 661; Ludbrook, 1959b: 222, pl. 4, figs 1, 2.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Murray Basin: Norwest Bend Formation. Bass Basin: Cameron Inlet Formation. *Age:* late Pliocene.

***Ostrea angasi* Sowerby, 1871**

Ostrea sinuata glenelgensis Singleton, 1941: 426, pl. 20, fig. 6.—Ludbrook, 1983: 39.
Ostrea angasi Sowerby, 1871.—Ludbrook, 1978: 49.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Werriook Limestone (type), Whalers Bluff Formation. Bass Basin: Memana Formation. Southern and eastern Australia (living). *Age:* late Pliocene–present.

***Ostrea sturtiana* Tate, 1886**

Ostrea sturtiana Tate, 1886b: 97, pl. 6, fig. 1.
Ostrea sp. cf. *O. sturtiana* Tate, 1886.—Ludbrook, 1978: 50.

Distribution. Eucla Basin: Roe Calcarenite? Murray Basin: Norwest Bend Formation (type). *Age:* late Pliocene.

Lopha Röding, 1778

***Lopha hyotidoidea* (Tate, 1899)**

Ostrea hyotis (Linnaeus, 1758).—Tate, 1886b: 96, pl. 6, fig. 5; Harris, 1897: 299 non Linnaeus, 1758.

Ostrea hyotidoidea Tate, 1899b: 268.

Ostrea (Lopha) hyotidoidea Tate, 1899.—Ludbrook, 1955: 28, pl. 5, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Morgan Limestone (type). Otway Basin: Muddy Creek Formation. *Age:* middle Miocene.

Magallana Salvi and Mariottini, 2016

***Magallana* cf. *M. ingens* (Zittel, 1865)**

Ostrea sturtiana Tate 1886.—Harris, 1897: 299 non Tate, 1886.
Ostrea ingens Zittel, 1864.—Chapman, 1922: 2, pl. 1, figs 1, 2.

Distribution. Port Phillip Basin: Waurn Ponds Limestone, Gellibrand Formation. Gippsland Basin: Bairnsdale Limestone. *Age:* late Oligocene–middle Miocene.

Family Gryphaeidae
Labrostroma Vialov, 1936

***Labrostroma?* sp.**

Labrostroma? sp. Darragh and Kendrick, 1991: 41, Figs 11A–D.

Distribution. Carnarvon Basin: Boongarooda Greensand, Wadera Calcarenite. *Age:* late Paleocene.

Pycnodonte Fischer von Waldheim, 1835

***Pycnodonte* sp. cf. *P. vesiculare* (Lamarck, 1806)**

Pycnodonte sp. cf. *P. vesiculare* (Lamarck, 1806).—Darragh and Kendrick, 1991: 36, Figs 8–10.

Distribution. Carnarvon Basin: Boongarooda Greensand. *Age:* late Paleocene.

Phygraea Vyalov, 1936

***Phygraea* sp.**

Pycnodonte (Phygraea) sp. Darragh, 1994: 85, Figs 3N, O, R–T, W.

Distribution. Pebble Point Formation. *Age:* late Paleocene.

Notostrea Finlay, 1928

***Notostrea lubra* Finlay, 1928**

Gryphaea tarda Hutton, 1873.—Tate, 1886b: 98, pl. 6, figs 2a, b; Harris, 1897: 302 non Hutton, 1873.

Notostrea lubra Finlay in Marwick, 1928: 432.—Ludbrook, 1969b: fig. 96.2; Ludbrook in Lowry, 1970: Fig. 21F; Ludbrook, 1973: pl. 24, figs 6–9.

Distribution. Eucla Basin: Wilson Bluff Limestone (type). St Vincent Basin: Blanche Point Formation. Otway Basin: Browns Creek Formation. **Age:** late Eocene.

Order Pectinida

Superfamily Pectinoidea

Family Pectinidae

Delectopecten Stewart, 1930

***Delectopecten crassistriatus* Beu and Darragh, 2001**

Delectopecten sp. Darragh, 1997: 103, Fig. 12L.

Delectopecten crassistriatus Beu and Darragh, 2001: 35, Figs 7A–I.

Distribution. Otway Basin: Pebble Point Formation (type). **Age:** late Paleocene.

Abrachlamys Beu and Darragh, 2001

(Type species of the genus OD)

***Abrachlamys toolinnensis* Beu and Darragh, 2001**

Abrachlamys toolinnensis Beu and Darragh, 2001: 39, Figs 8A, C–E.

Distribution. Eucla Basin: Abrakurrie Limestone (type). **Age:** early Miocene.

Austrohininites Beu and Darragh, 2001

***Austrohininites corioensis* (McCoy, 1879)**

(Type species of genus OD)

Hinnites corioensis McCoy, 1879: 31, pl. 58, figs 1a, b, 2–5, 5a.—Tate, 1886b: 116; Crespin, 1950: 152, pl. 15, fig. 13.

Pecten deformis Tate, 1887a: 185, pl. 18, fig. 4 non Gabb, 1864.

Hinnites tatei Cossmann, 1907: 201 nom. nov. for *Pecten deformis* Tate, 1887 non Gabb, 1864

Hinnites mulderi Chapman, 1922: 5, pl. 2, figs 9, 10.

Austrohininites corioensis (McCoy, 1879).—Beu and Darragh, 2001: 43, Figs 8B, 9A–E, 10A–E.

Distribution. Murray Basin: Mannum Formation. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Batesford Limestone, Gellibrand Formation (type), Port Campbell Limestone. Gippsland Basin: Bairnsdale Limestone, Wuk Wuk Marl, Tambo River Formation. Bass Basin: Freestone Cove Sandstone. **Age:** late Oligocene–middle Miocene.

***Austrohininites polyaktinos* (Ludbrook, 1955)**

Chlamys (Chlamys) polyaktinos Ludbrook, 1955: 30, pl. 4, fig. 16.

Hinnites corioensis McCoy, 1879.—Ludbrook, 1955: 34 non McCoy, 1879.

Hinnites tatei Cossmann, 1807.—Ludbrook, 1973: pl. 27, fig. 78.

Austrohininites polyaktinos (Ludbrook, 1955).—Beu and Darragh, 2001: 47, Figs 8F–H, 11A–H.

Distribution. St Vincent Basin: Dry Creek Sands (type). Murray Basin: Bookpurnong Formation. **Age:** middle Miocene.

Dichotochlamys Beu and Darragh, 2001

***Dichotochlamys dichotomalis* (Tate, 1886)**

(Type species of genus OD)

Pecten dichotomalis Tate, 1886b: 106, pl. 9, figs 3a–c.

Dichotochlamys dichotomalis (Tate, 1886).—Beu and Darragh, 2001: 51, Figs 12A–H.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** middle Miocene.

Equichlamys Iredale, 1929

***Equichlamys bifrons* (Lamarck, 1819)**

(Type species of the genus OD)

Pecten subbifrons Tate, 1882: 44.—Tate, 1886b: 104, pl. 3, fig. 2.

Pecten consobrinus Tate, 1886b: 104, pl. 3, fig. 6.—Harris, 1897: 317.

Pecten palmipes Tate, 1886b: 105, pl. 5, fig. 4, pl. 7, figs 4a, b.—Harris, 1897: 318; Marwick, 1924a: 326, pl. 5, fig. 6.

Chlamys (Equichlamys) consobrina (Tate, 1886).—Ludbrook, 1955: 31; Ludbrook, 1959b: 224, pl. 1, fig. 2.

Chlamys (Equichlamys) subbifrons (Tate, 1882).—Ludbrook, 1959b: 224, pl. 1, fig. 1.

Chlamys (Equichlamys) palmipes (Tate, 1886).—Ludbrook, 1959b: 225, pl. 1, figs 3–6.

Chlamys (Equichlamys) bifrons subbifrons (Tate, 1882).—Ludbrook, 1978: 47, pl. 2, figs 6, 7.

Chlamys (Equichlamys) bifrons palmipes (Tate, 1886).—Ludbrook, 1978: 46, pl. 2, fig. 5.

Equichlamys bifrons (Lamarck, 1819).—Beu and Darragh, 2001: 53, Figs 13A–H, 14A–F.

Distribution. Perth Basin: “older” and “younger” Ascot Formation. Eucla Basin: Roe Calcarenite. St Vincent Basin: upper Dry Creek Sands, Hallett Cove Sandstone. Murray Basin: Norwest Bend Formation. Otway Basin: Werriook Limestone. Bass Basin: Memana Formation. Eastern southern–southern Eastern Australia (living). **Age:** late Pliocene–present.

Notochlamys Cotton, 1930

***Notochlamys(?) nanarupensis* Beu and Darragh, 2001**

Notochlamys(?) nanarupensis Beu and Darragh, 2001: 58, Figs 15E, 16G, H.

Distribution. Eucla Basin: Nanarup Limestone (type), Pallinup Formation. **Age:** late Eocene.

***Notochlamys(?) squamundata* Beu and Darragh, 2001**

?*Notochlamys antedecens* (Singleton, 1941).—Ludbrook in Lowry, 1970: Figs 21I, J non Singleton, 1941.

Notochlamys(?) squamundata Beu and Darragh, 2001: 59: Figs 15A–D, F–H.

Distribution. Eucla Basin: Abrakurrie Limestone St Vincent Basin: Port Willunga Formation (type), Melton Limestone. Port Phillip Basin: Jan Juc Formation. Age: late Eocene(?)–early Miocene.

***Notochlamys kendricki* Beu and Darragh, 2001**

Notochlamys kendricki Beu and Darragh, 2001: 63, Figs 16A–F.

Distribution. Eucla Basin: Roe Calcarenite (type). Age: late Pliocene.

Semipallium Jousseume, 1928

***Semipallium foulcheri* (Tenison Woods, 1865)**

Pecten sp. Sturt, 1833: 254, pl. 3, fig. 14.

Pecten foulcheri Tenison Woods, 1865: 1, pl. 1, fig. 3.—Tate, 1886b: 111.

Pecten praecursor Chapman, 1912a: 36, pl. 5, figs 1–3.—Chapman, 1912b: 49, pl. 7, figs 1, 2.

Notochlamys antecessens Singleton, 1941: 427 unnecessary replacement name for *Pecten praecursor* Chapman, 1912, non *Pecten precursor* Dall, 1898.

Semipallium foulcheri (Tenison Woods, 1865).—Beu and Darragh, 2001: 67, Figs 19A–H, 20A–I.

Distribution. Carnarvon Basin: Mandu Calcarenite. Eucla Basin: Colville Sandstone. St Vincent Basin: Port Willunga Formation. Murray Basin: Mannum Formation, Cadell Marl, Morgan Limestone. Otway Basin: Gambier Limestone (type), Naracoorte Limestone, Sandford Limestone, Calder River Limestone, Clifton Formation, Fishing Point Marl, Gellibrand Formation, Bochara Limestone, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation, Point Addis Limestone, Waurin Ponds Limestone, Lower Maude Limestone, Puebla Formation, Zeally Limestone, Upper Maude Limestone, Batesford Limestone, Flinders Limestone, Gellibrand Formation. Gippsland Basin: Gippsland Limestone, Wuk Wuk Marl. Bass Basin: Fossil Bluff Sandstone, Freestone Cove Sandstone, Marawah Limestone. Age: late Oligocene–middle Miocene.

***Semipallium aktinos* (Petterd, 1886)**

Semipallium aktinos (Petterd, 1886).—Beu and Darragh, 2001: 75, Figs 18A–D, 21A–G.

Distribution. Perth Basin: “younger” Ascot Formation. Western, southern, eastern and northern Australia (living). Age: early Pleistocene–present.

Serripecten Marwick, 1928

***Serripecten?* sp.**

Serripecten? sp. Stilwell: 2005: 335, Fig. 2H.

Distribution. Perth Basin: Kings Park Formation. Age: late Paleocene.

***Serripecten aldingensis* (Tate, 1886)**

Pecten aldingensis Tate, 1886b: 109, pl. 7, figs 1a–c.

Pecten (Chlamys) aldingensis Tate, 1886.—Marwick, 1924a: 325, pl. 6, fig. 14.

Serripecten aldingensis (Tate, 1886).—Beu and Darragh, 2001: 77, Figs 22A, B, D, E.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Tortachilla Limestone (type). Age: late Eocene.

***Serripecten excultatus* Beu and Darragh, 2001**

Serripecten excultatus Beu and Darragh, 2001: 79: Figs 23A–C.

Distribution. Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Serripecten* sp.**

Serripecten sp. Beu and Darragh, 2001: 81, Fig. 22C.

Distribution. Otway Basin: Clifton Formation. Port Phillip Basin: Jan Juc Formation. Waurin Ponds Limestone. Age: late Oligocene.

***Serripecten squamocostatus* Beu and Darragh, 2001**

Serripecten squamocostatus Beu and Darragh, 2001: 82, Figs 23D–F.

Distribution. St Vincent Basin: Melton Limestone. Murray Basin: Mannum Formation (type), Gambier Limestone. Gippsland Basin: Gippsland Limestone. Age: early Miocene.

***Serripecten yahliensis* (Tenison Woods, 1865)**

Pecten yahliensis Tenison Woods, 1865, pl. 1, figs 4a, b.

Pecten yahliensis [sic] Tenison Woods, 1865.—Tate, 1886b: 110; Marwick, 1924a: 326, pl. 6, fig. 10.

Serripecten yahliensis (Tenison Woods, 1865).—Crespin, 1950: 152, pl. 16, figs 14, 15; Beu and Darragh, 2001: 83, Figs 24A–H, 25A–D, 26E.

Distribution. Murray Basin: Mannum Formation, Morgan Limestone, Bookpurnong Formation. Otway Basin: Gambier Limestone (type), Naracoorte Limestone, Sandford Limestone, Gellibrand Formation, Muddy Creek Formation, Port Campbell Limestone. Port Phillip Basin: Puebla Formation, Zeally Limestone, Batesford Limestone, Gellibrand Formation. Gippsland Basin: Gippsland Limestone, Wuk Wuk Marl, Bairnsdale Limestone. Bass Basin: Fossil Bluff Sandstone. New Zealand (early–late Miocene). Age: early Miocene–middle Miocene.

***Serripecten semilaevis* (McCoy, 1877)**

Pecten yahliensis [sic] var. *semilaevis* McCoy, 1877: 13, pl. 34, figs 1, 1a–d.

Pecten yahliensis [sic] Tenison Woods, 1865.—Tate, 1886b: 110 (in part).

Lentipecten adelaidensis Ludbrook, 1955: 32, pl. 1, figs 13a–c.

Serripecten yahliensis (Tenison Woods, 1865).—Ludbrook, 1973: pl. 27, fig. 80 non Tenison Woods, 1865.

Serripecten semilaevis (McCoy, 1876).—Beu and Darragh, 2001: 89, Figs 25E, 26A–D, 27A, B.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. Otway Basin: Muddy Creek Formation, Port Campbell Limestone, Goodwood Formation. Port Phillip Basin: Gellibrand Formation, Sandringham Sandstone. Gippsland Basin: Wuk Wuk Marl, Bairnsdale Limestone (type). Age: middle Miocene.

***Serripecten carteri* Beu and Darragh, 2001**

Serripecten carteri Beu and Darragh, 2001: 93, Figs 28A, B.

Distribution. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Tambo River Formation (type). *Age:* late Miocene.

Talochlamys Iredale, 1929

***Talochlamys badioriva* Beu and Darragh, 2001**

Talochlamys badioriva Beu and Darragh, 2001: 97, Figs 30A–I, 31A, D, F, H, 32A–C.

Distribution. Eucla Basin: Nanarup Limestone, Pallinup Siltstone. St Vincent Basin: Port Willunga Formation. Otway Basin: Browns Creek Formation (type). *Age:* late Eocene.

***Talochlamys eyrei* (Tate, 1886)**

Pecten eyrei Tate, 1886b: 107, pl. 8, figs 3a, b, 6.

Pecten flindersi Tate, 1886b: 108, pl. 8, fig. 7.

Pecten peroni Tate, 1886b: 108, pl. 10, figs 1a, b.—Harris, 1897: 317.

Chlamys eyrei (Tate, 1886).—Ludbrook, 1969b: fig. 96.1: Ludbrook in Lowry, 1970: Fig. 21E.

Chlamys peroni (Tate, 1886).—Ludbrook in Lowry, 1970: Fig. 21G.

Talochlamys eyrei (Tate, 1886).—Beu and Darragh, 2001: 101, Figs 31B, C, E, G, I, 32G, 33A–E, 34A–G.

cf. *Talochlamys eyrei* (Tate, 1886).—Darragh and Kendrick, 2008: 224, Figs 1.22, 1.23, 1.26.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Wilson Bluff Limestone, Abrakurrie Limestone. St Vincent Basin: Blanche Point Formation, Tortachilla Limestone (type), Port Willunga Formation, Rogue Formation, Melton Limestone, Point Turton Limestone. Murray Basin: Mannum Formation. Otway Basin: Browns Creek Formation, Gambier Limestone, Sandford Limestone, Calder River Limestone, Clifton Formation, Fishing Point Marl. Port Phillip Basin: Jan Juc Formation, Point Addis Limestone, Waurin Ponds Limestone, Zeally Limestone. *Age:* late Eocene–early Miocene.

***Talochlamys multilamellata* Beu and Darragh, 2001**

Talochlamys multilamellata Beu and Darragh, 2001: 106, Figs 35A–C, E.

Distribution: Eucla Basin: Abrakurrie Limestone (type). *Age:* early Miocene.

***Talochlamys laticostata* Beu and Darragh, 2001**

Talochlamys laticostata Beu and Darragh, 2001: 107, Figs 32D–F, 35D.

Distribution. Murray Basin: Morgan Limestone (type), Pata Limestone. *Age:* middle Miocene.

***Talochlamys keiloriana* (Crespin, 1926)**

Chlamys keiloriana Crespin, 1926: 118, pl. 8, fig. 13.

Talochlamys keiloriana (Crespin, 1926).—Beu and Darragh, 2001: 108, Figs 32H, I, 36A–H, 37A–H.

Distribution. Otway Basin: Muddy Creek Formation, Grange Burn Formation (remanié). Port Phillip Basin: Gellibrand

Formation (type). Gippsland Basin: Gippsland Limestone, Wuk Wuk Marl, Bairnsdale Limestone, Tambo River Formation. *Age:* middle–late Miocene.

***Talochlamys* sp.**

Talochlamys sp. Beu and Darragh, 2001: 111.

Distribution. Eucla Basin: Toolinna Limestone. *Age:* late Eocene.

***Talochlamys* sp.**

Talochlamys sp. Beu and Darragh, 2001: 111, Fig. 38B.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Talochlamys* sp.**

Talochlamys sp. Beu and Darragh, 2001: 113, Fig. 38A.

Distribution. Eucla Basin: Abrakurrie Limestone. *Age:* early Miocene.

***Talochlamys* sp.**

Talochlamys sp. Beu and Darragh, 2001: 113.

Distribution. Eucla Basin: Colville Sandstone. *Age:* middle Miocene?

***Talochlamys* sp.**

Talochlamys sp. Beu and Darragh, 2001: 115.

Distribution. Port Phillip Basin: Fyansford Formation. *Age:* middle Miocene.

Veprichlamys Iredale, 1929

***Veprichlamys leprosa* Beu and Darragh, 2001**

Veprichlamys leprosa Beu and Darragh, 2001: 115, Figs 39D–F, 40A–H.

Distribution. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Victoripecten Beu and Darragh, 2001

***Victoripecten victoriensis* (Crespin, 1950)**

(Type species of genus OD)

Pecten pleuronectes (Linnaeus, 1758).—Tenison Woods, 1865: 1, fig. 5 non Linnaeus 1758.

Pecten hochstetteri Zittel, 1864.—Tate, 1886b: 114 non Zittel, 1864.

Lentipecten victoriensis Crespin, 1950, pl. 151, pl. 15, figs 8–11.

Victoripecten victoriensis (Crespin, 1950).—Beu and Darragh, 2001: 123, Figs 42A–E, 43A–F.

Distribution. Eucla Basin: Abrakurrie Limestone. St Vincent Basin: Blanche Point Formation, Tortachilla Limestone, Port Willunga Formation, Muloowurtie Formation, Rogue Formation, Melton Limestone. Murray Basin: Mannum Formation, Otway Basin: Calder River Limestone, Clifton Formation, Gambier Limestone, Sandford Limestone, Naracoorte Limestone, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation, Point Addis Limestone, Waurin Ponds Limestone, Puebla Formation, Zeally Limestone, Gellibrand Formation. Gippsland Basin: Lakes Entrance Formation (type), Gippsland Limestone. Bass Basin: Fossil Bluff Sandstone. *Age:* late Eocene–middle Miocene.

Mimachlamys Iredale, 1929***Mimachlamys?* sp.**

Mimachlamys? sp. Beu and Darragh, 2001: 129, Figs 44F, H.

Distribution. St Vincent Basin: Blanche Point Formation. Age: late Eocene.

***Mimachlamys sturtiana* (Tate, 1886)**

Pecten sturtianus Tate, 1886b: 109, pl. 7, figs 2a–c.

Mimachlamys sturtiana (Tate, 1886).—Beu and Darragh, 2001: 129, Figs 44B–E, 45A–I.

Distribution. St Vincent Basin: Port Willunga Formation. Murray Basin: Mannum Formation, Cadell Marl, Morgan Limestone (type), Pata Limestone. Otway Basin: Muddy Creek Formation, Port Campbell Limestone. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Age: late Oligocene–middle Miocene.

***Mimachlamys asperrima* (Lamarck, 1819)**

Pecten asperrimus Lamarck var? Tate, 1882: 44.

Pecten antiaustralis Tate, 1886b: 106, pl. 9, figs 7a–c.

Chlamys asperrimus asperrimus [sic] (Lamarck, 1819).—Gatliff and Singleton, 1930: 73, pl. 2, figs 1, 2, 4, pl. 3, fig. 5, pl. 4, figs 11a, b, 12.

Chlamys asperrimus antiaustralis (Tate, 1886).—Gatliff and Singleton, 1930: 71, pl. 2, fig. 3, pl. 3, figs 6, 7, pl. 4, figs 10a, b.

Chlamys asperrimus dennanti Gatliff and Singleton, 1930: 73, pl. 3, figs 8, 9, pl. 4, figs 13a, b.

Chlamys (Chlamys) antiaustralis (Tate, 1886).—Ludbrook, 1955: 30, pl. 5, fig. 11.

Chlamys (Chlamys) asperrima (Lamarck, 1819).—Ludbrook, 1978: 45, pl. 2, figs 1, 2.

Mimachlamys asperrima (Lamarck, 1819).—Beu and Darragh, 2001: 133, Figs 46A–G, 47A–D, F, 52C.

Distribution. Perth Basin: Ascot Formation (“older” and “younger”), Tamala Limestone. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (upper), Hallett Cove Sandstone. Murray Basin: Norwest Bend Formation. Otway Basin: Muddy Creek Formation?, Goodwood Formation, Grange Burn Formation, Werrikoo Limestone. Port Phillip Basin: Gellibrand Formation, Sandringham Sandstone. Gippsland Basin: Bairnsdale Limestone, Tambo River Formation, Jemmans Point Formation. Bass Basin: Memana Formation. Southern Australia to southern Queensland (living). Age: middle Miocene?, late Miocene–present.

***Mimachlamys heterophyseta* Beu and Darragh, 2001**

Mimachlamys heterophyseta Beu and Darragh, 2001: 141, Figs 44A, G, 50A–E, 51A–G, 52B, D.

Distribution. Perth Basin: Ascot Formation (“younger”). Bass Basin: Memana Formation (type). Southwestern Western Australia (living). Age: early Pleistocene–present.

Annachlamys Iredale, 1939***Annachlamys rhipidata* Beu and Darragh, 2001**

Annachlamys rhipidata Beu and Darragh, 2001: 148, Figs 53A, 54C–E.

Distribution. Murray Basin: Mannum Formation. Otway Basin: Calder River Limestone, Clifton Formation. Port Phillip Basin: Jan Juc Formation (type), Point Addis Limestone, Waurin Ponds Limestone, Puebla Formation, Zeally Limestone. Age: late Oligocene–early Miocene.

***Annachlamys murrayana* (Tate, 1886)**

Pecten murrayanus Tate, 1886b: 105, pl. 7, figs 5a, b.—Harris, 1897: 314; Ludbrook, 1973: pl. 26, fig. 74.

Pecten murrayana Tate, 1886.—Ludbrook, 1969b, fig. 96.5.

Annachlamys murrayana (Tate, 1886).—Beu and Darragh, 2001: 149, Figs 54A, B, F, 55A–H.

Distribution. Eucla Basin: Nullarbor Limestone. Murray Basin: Morgan Limestone (type), Cadell Marl, Pata Limestone. Otway Basin: Bochara Limestone, Muddy Creek Formation, Port Campbell Limestone. Port Phillip Basin: Batesford Limestone, Flinders Limestone, Gellibrand Formation. Gippsland Basin: Gippsland Limestone, Wuk Wuk Marl. Age: early–middle Miocene.

***Annachlamys* sp.**

?*Pecten murrayanus* Tate, 1886: Ludbrook in Lowry, 1970: Figs 27H, I.

?*Chlamys (Annachlamys) aff. murrayana* (Tate, 1886).—McNamara and Kendrick, 1994: 18, Fig. 8B.

Annachlamys sp. Beu and Darragh, 2001: 153, Fig. 53B.

Distribution. Carnarvon Basin: Poivre Formation. Eucla Basin: Abrakurrie Limestone. Age: late Oligocene–early Miocene, middle Miocene.

Mesopeplum Iredale, 1929***Mesopeplum gambierense* (Tenison Woods, 1865)**

Pecten coarctatus(?) Born, 1778: Tenison Woods, 1862: 76, fig. non Born.

Pecten coarctatus Born, 1778: Tenison Woods, 1862: 255, fig. non Born.

Pecten gambierensis Tenison Woods, 1865: 1, fig. 2; Tate, 1886b: 112.

Chlamys gambierensis (Tenison Woods, 1865).—Ludbrook, 1961b: pl. 8, figs 7, 8.

Mesopeplum gambierense (Tenison Woods, 1865).—Beu and Darragh, 2001: 155, Figs 56H–K.

Distribution. Otway Basin: Gambier Limestone (type), Naracoorte Limestone. Age: early Miocene.

***Mesopeplum minimum* Beu and Darragh, 2001**

Mesopeplum minimum Beu and Darragh, 2001: 157, Figs 56A, C, D.

Distribution. Murray Basin: Mannum Formation (type). Otway Basin: Gambier Limestone. Port Phillip Basin: Puebla Formation, Zeally Limestone, Batesford Limestone. Gippsland Basin: Gippsland Limestone. Age: early Miocene.

***Mesopeplum incertum* (Tenison Woods, 1865)**

Pecten coarctatus (?) Born, 1778.—Sturt, 1833, vol. 2: 254, pl. 3, fig. 13 non Born.

Pecten incertum Tenison Woods, 1865: 1, fig. 1.

Pecten polymorphoides Zittel, 1864.—Tate, 1886b: 113, pl. 8, fig. 2 non Zittel, 1864.

Mesopeplum incertum (Tenison Woods, 1865).—Beu and Darragh, 2001: 158, Figs 56B, E–G.

Distribution. Murray Basin: Morgan Limestone (type), Cadell Marl. Otway Basin: Gellibrand Formation. Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Gippsland Limestone. Age: early–middle Miocene.

***Mesopeplum subconvexum* (Tate, 1887)**

Pecten subconvexus Tate, 1887a: 185, pl. 18, fig. 2.

Chlamys (Mesopeplum) incerta (Tenison Woods, 1865).—Ludbrook, 1955: 32, pl. 5, figs 8, 9 non Tenison Woods, 1865.

Mesopeplum subconvexum (Tate, 1887).—Beu and Darragh, 2001: 161, Figs 57A–J.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. Otway Basin: Port Campbell Limestone, Goodwood Formation, Grange Burn Formation (type, remanié). Gippsland Limestone: Wuk Wuk Marl, Bairnsdale Limestone. Age: middle–late Miocene.

***Mesopeplum(?) contrainflatum* Beu and Darragh, 2001**

Mesopeplum(?) contrainflatum Beu and Darragh, 2001: 163, Figs 58A–D.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene.

***Mesopeplum divergens* Beu and Darragh, 2001**

Mesopeplum divergens Beu and Darragh, 2001: 163, Figs 59A–I.

Distribution. Port Phillip Basin: Sandringham Sandstone. Gippsland Limestone: Tambo River Formation (type). Age: late Miocene.

***Mesopeplum meringae* (Tate, 1899)**

Pecten meringae Tate, 1899b: 271.

Mesopeplum meringae (Tate, 1899).—Beu and Darragh, 2001: 167, Figs 58E, F, 60A–E.

Distribution. Tambo River Formation?, Jemmys Point Formation (type). Bass Basin: Cameron Inlet Formation. Age: late Miocene–late Pliocene.

***Mesopeplum* aff. *M. fenestratum* (Hedley, 1901)**

Mesopeplum fenestratum (Hedley, 1901)?: Beu and Darragh, 2001: 171, Fig. 60F.

Distribution. Gippsland Basin: Tambo River Formation? Age: late Miocene.

Ylistrum Mynhardt and Alejandrino, 2014

***Ylistrum subcostatum* (Beu and Darragh, 2001) comb. nov.**

Amusium subcostatum Beu and Darragh, 2001: 174, Figs 63B, D, E, 64D, E.

Distribution. Murray Basin: Mannum Formation (type). Port Phillip Basin: Jan Juc Formation. Age: late Oligocene–early Miocene.

***Ylistrum morganense* (Beu and Darragh, 2001) comb. nov.**

Pecten lucens Tate, 1886b: 115 (in part).

Amusium morganense Beu and Darragh, 2001: 175, Figs 64A, F, 65A–E.

Distribution. Eucla Basin: Nullarbor Limestone. Murray Basin: Morgan Limestone (type), Cadell Marl. Age: middle Miocene.

***Ylistrum balloti* (Bernardi, 1861)**

Pecten lucens Tate, 1886b: 115 (in part).

Pecten tatei Gregorio, 1898: 39 (unnecessary replacement name for *P. lucens* not preoccupied by *Pleuronectia lucida* Wyville Thomson, 1873).

Amusium balloti (Bernardi, 1861).—Beu and Darragh, 2001: 179, Figs 63A, C, 64B, C, 66A–H.

Distribution. Perth Basin: “older” Ascot Formation. St Vincent Basin: Hallett Cove Sandstone. Murray Basin: Norwest Bend Formation. Gippsland Basin: Jemmys Point Formation. Northern Australia, Indo-Pacific (living). Age: late Miocene–Late Pliocene–present.

Pecten O. F. Müller, 1776

***Pecten fumatus* Reeve, 1852**

Pecten fumatus Reeve, 1852.—Beu and Darragh, 2001: 183 (with synonymy and comments on synonyms).

Distribution. Perth Basin: “younger” Ascot Formation. Otway Basin: Whalers Bluff Formation. Bass Basin: Memana Formation. Western, southern and eastern Australia (living). Age: early Pleistocene–present.

Pectinid A

Pectinidae, not determined A. Beu and Darragh, 2001: 185, Figs 67A–C.

Distribution. Eucla Basin: Nullarbor Limestone. Age: middle Miocene.

Pectinid B

Pecten murrayanus Tate, 1886.—Ludbrook, 1970: Figs 34D, E.

Pectinidae, not determined B. Beu and Darragh, 2001: 187, Figs 67A–C.

Distribution. Eucla Basin: Nullarbor Limestone. Age: middle Miocene.

Family Propeamussiidae

Parvamussium Sacco, 1897

***Parvamussium* sp.**

Parvamussium [sic] sp. cf. *P. hauniense* Ravn, 1939.—Darragh, 1994: 84, Figs 3P, Q.

Parvamussium sp. Stilwell, 2003: 253, Figs 4J, L–N; Stilwell, 2005: 334, Fig. 2G.

Distribution. Perth Basin: Kings Park Formation. Otway Basin: Pebble Point Formation, Dilwyn Formation. Age: late Paleocene–early Eocene.

***Parvamussium atkinsoni* (Johnston, 1880) comb. nov.**

Amusium atkinsoni Johnston, 1880: 41.

Pecten zitteli Hutton, 1873.—Tate, 1886b: 115, pl. 7, figs 3a–c; Johnston, 1888: pl. 31, figs. 15, 15a non Hutton.

Amusium zitteli Hutton, 1873.—Harris, 1897: 324 non Hutton.

Propeamusium atkinsoni (Johnston, 1880).—Chapman and Singleton, 1927: 117, pl. 10, figs 13–19; Ludbrook, 1955: 33.

Distribution. St Vincent Basin: Blanche Point Formation, Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). **Age:** late Eocene–middle Miocene.

Family Spondylidae

Spondylus Linnaeus, 1758

***Spondylus* sp. cf. *S. latus* (J. Sowerby, 1815)**

Spondylus sp. cf. *S. latus* (J. Sowerby, 1815).—Darragh and Kendrick, 1991: 78, Figs D–H.

Distribution. Carnarvon Basin: Boongarooda Greensand, Wadera Calcarenite? **Age:** late Paleocene.

***Spondylus gaderopoides* McCoy, 1877**

Spondylus gaderopoides McCoy, 1877: 27, pl. 38, figs 1, 1a–d.—McCoy, 1878: 17, pl. 45, figs 1, 1a, b, 3.

Spondylus gaderopoides McCoy, 1876: Ludbrook in Lowry, 1970: Figs 21B, 27E.

cf. *Spondylus gaderopoides* McCoy, 1876: Darragh and Kendrick, 1980: 15, Figs 4A, B; Darragh and Kendrick, 2010: 28, Figs 1D, M.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. Eucla Basin: Pallinup Formation, Wilson Bluff Limestone, Abrakurrie Limestone, Colville Sandstone. St Vincent Basin: Tortachilla Limestone. Otway Basin: Browns Creek Formation. Port Phillip Basin: Jan Juc Formation (type).

***Spondylus murravicus* Tate, 1899**

Pecten spondyloides variety Tate, 1886b: 112, pl. 4, fig. 7.

Spondylus murravicus Tate, 1899b: 275.

Distribution: Murray Basin: Morgan Limestone (type). **Age:** middle Miocene.

***Spondylus pseudoradula* McCoy, 1878**

Spondylus pseudoradula McCoy, 1878: 17, pl. 45, figs 2, 2a–c.—Harris, 1897: 308.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). **Age:** Middle Miocene.

***Spondylus baileyana* Chapman, 1922**

Spondylus baileyana Chapman, 1922: 7, pl. 2, fig. 11.

Distribution. Port Phillip Basin: Sandringham Sandstone (type). **Age:** late Miocene.

***Spondylus spondyloides* Tate, 1882**

Pecten spondyloides Tate, 1882: 44; 1886b: 112, pl. 4, figs 6, 7.

Spondylus arenicola Tate, 1896 in Tate, Howchin and David, 1896: 318 nom. nov. for *Pecten spondyloides* Tate, 1882 invalid name change.—Tate, 1899b: 275.

Spondylus aldingensis Tate, 1896 in Tate and Dennant, 1896: 121 nom. nov. for *Pecten spondyloides* Tate, 1882 invalid name change.

Spondylus pseudoradulus McCoy, 1877.—Crespin, 1950: 152, pl. 14, figs 1, 2 non McCoy.

Spondylus spondyloides (Tate, 1882).—Ludbrook, 1955: 34, pl. 2, fig. 1; Ludbrook, 1959b: pl. 2, fig. 1; Ludbrook, 1973: pl. 28, fig. 90; Ludbrook, 1978: 48, pl. 2, figs 3, 4.

Distribution: Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). Murray Basin: Norwest Bend Formation. Gippsland Basin: Jemmys Point Formation. **Age:** middle Miocene–Late Pliocene.

Superfamily Plicatuloidea**Family Plicatulidae**

Plicatula Lamarck, 1801

***Plicatula emaciata* Darragh and Kendrick, 2000**

Plicatula (*Plicatula*) sp. Darragh and Kendrick, 1980: 15, Figs 3I–L.

Plicatula (*Plicatula*) *emaciata* Darragh and Kendrick, 2000: 26, Figs 3A, C, E, G–J.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

***Plicatula ramulosa* Tate, 1898**

Plicatula ramulosa Tate, 1898a: 408, pl. 19, fig. 3.

Distribution. Bass Basin: Freestone Cove Sandstone (type). **Age:** early Miocene.

***Plicatula youngi* Chapman, 1922**

Plicatula youngi Chapman, 1922: 5, pl. 1, figs 4, 5.

Plicatula dennanti Chapman, 1922: 6, pl. 1, figs 6, 7.

Plicatula brevispina Chapman, 1922: 6, pl. 1, fig. 8.

Distribution: Otway Basin: Muddy Creek Formation (type). **Age:** middle Miocene.

Superfamily Dimyoidea**Family Dimyidae**

Dimya

***Dimya* sp.**

Dimya sp. Darragh and Kendrick, 1991: 42, Fig. 11F.

Distribution. Carnarvon Basin: Boongarooda Greensand. **Age:** late Paleocene.

***Dimya sigillata* Tate, 1886**

Dimya sigillata Tate, 1886b: 100, pl. 8, figs 8a, b; Harris, 1897: 306; Ludbrook, 1973: pl. 24, figs 14, 15; Darragh and Kendrick, 1980: 16, Figs 4C–F.

Dimyodon sigillata (Tate, 1886).—Ludbrook in Lowry, 1970, Fig. 21H.

Distribution. Eucla Basin: Pallinup Siltstone, Wilson Bluff Limestone. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. **Age:** late Eocene.

***Dimya dissimilis* Tate, 1886**

Dimya dissimilis Tate, 1886b: 100, pl. 3, figs 9a–c.—Harris, 1897: 306.

Distribution. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. *Age:* late Oligocene–middle Miocene.

Superfamily Anomioidea

Family Anomiidae

Anomia

Linnaeus, 1758

***Anomia* sp.**

Anomia sp. Darragh, 1994: 85, Figs 3H, K–M.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Anomia* sp. cf. *A. (A.) cymbula* Tate, 1886**

Anomia (Anomia) sp. cf. *A. (A.) cymbula* Tate, 1886.—Darragh and Kendrick, 2000: 28, Fig. 2H.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Anomia cymbula* Tate, 1886**

Anomia cymbula Tate, 1886b: 101, pl. 9, fig. 5.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Anomia tatei* Chapman and Singleton, 1928**

Placunanomia ione Gray, 1849.—Tate, 1886b: 101, pl. 5, figs 7a, b; Harris, 1897: 303.

Anomia tatei Chapman and Singleton in Chapman and Crespin, 1928: 99, pl. 11, figs 76a, b.—Ludbrook, 1955: 35, pl. 4, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type), Whalers Bluff Formation. *Age:* middle Miocene–late Pliocene.

Pododesmus Philippi, 1837

***Pododesmus sella* (Tate, 1886)**

Placunanomia sella Tate, 1886b: 102, pl. 5, figs 1a–c; Harris, 1897: 304; Chapman, 1912b: 50, pl. 6, fig. 10?

Pododesmus sella (Tate, 1886).—Beu, 1967: 241; Ludbrook, 1973, pl. 27, figs 82, 83.

Distribution. Murray Basin: Mannum Formation. Morgan Limestone, Bookpurnong Formation. Bass Basin: unnamed limestone (King Island)? *Age:* early?–middle Miocene.

Order Limida

Superfamily Limoidea

Family Limidae

Lima Bruguière, 1797

***Lima polyactina* Tate, 1886**

Lima polyactina Tate, 1886b: 118, pl. 8, figs 4a–c.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Lima maslinensis* Buonaiuto, 1977**

Lima bassii Tenison Woods, 1877, var. b.—Tate, 1886b: 117, pl. 8, fig. 1a–c non Tenison Woods, 1877.

Lima maslinensis Buonaiuto, 1977b: 79, Figs 5–10.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay *Age:* late Eocene–early Oligocene.

***Lima bassii* Tenison Woods, 1877**

Lima bassii Tenison Woods, 1877: 112.—Tate, 1886b: 117 (in part); Chapman, 1912b: 49, pl. 6, fig. 9?

Lima (Lima) bassi Tenison Woods, 1877.—Buonaiuto, 1977b: 77, Figs 1, 2, 11–13, 17–24.

Distribution. Bass Basin: Freestone Cove Sandstone (type), unnamed limestone (King Island)? *Age:* early Miocene.

***Lima morganensis* Buonaiuto, 1977**

Lima bassii Tenison Woods, 1877, var. a.—Tate, 1886b: 117, pl. 5, figs 8a, b non Tenison Woods.

Lima morganensis Buonaiuto, 1977b: 81, Figs 3, 4, 14–16.

Distribution. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Lima linguliformis* Tate, 1886**

Lima linguliformis Tate, 1886b: 118, pl. 3, figs 1a, b.—Harris, 1897: 310.

Distribution. Otway Basin: Muddy Creek Formation (type). Otway Basin: Gellibrand Formation. *Age:* middle Miocene.

***Lima elianae* Buonaiuto, 1977**

Lima elianae Buonaiuto, 1977b: 81, Figs 25–31.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Lima nimbifer* Iredale, 1924**

Lima gemina (Iredale, 1929).—Ludbrook, 1978: 48, pl. 1, figs 22, 23.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age:* late Pliocene–present.

Acesta H. and A. Adams, 1858

***Acesta?* sp.**

Plicacesta? sp. Darragh and Kendrick, 2008: 225, Fig. 1.10.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age:* late Eocene.

Notolimea Iredale, 1924

***Notolimea multicostulifera* (Darragh, 1997)**

Limid indet. Darragh, 1994: 85, Fig. 3E.

Limea (Notolimea) multicostulifera Darragh, 1997: 103, Figs 11J, M, N.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Notolimea alticosta* (Tate, 1886) comb. nov.**

Limea alticosta Tate, 1886b: 120, pl. 3, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

Limea Bronn, 1831

***Limea multiradiata* Tate, 1899**

Limea multiradiata Tate, 1899b: 274.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Limea transenna* Tate, 1886**

Limea transenna Tate, 1886b: 119, pl. 9, figs 6a, b.—Harris, 1897: 313.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation.

***Limea austrina* (Tate, 1887)**

Lima (*Limatula*) *subnodulosa* Tate, 1899b: 273.

Limea (*Gemellima*) *austrina* Tate, 1887.—Buonaiuto, 1977a: 30, Figs 12–15, 36–41.

Limea (*Gemellima*) sp. cf. *L. (G.) austrina* Tate, 1887.—Ludbrook, 1978: 49, pl. 9, figs 19–22.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Grange Burn Formation. Southern Australia (living). Age: early Pliocene–present.

Antarctolima Habe, 1977

***Antarctolima crebresquamata* (Tate, 1899) comb. nov.**

Lima (*Limatula*) *crebresquamata* Tate, 1899b: 274.

Limatula crebresquamata (Tate, 1899).—Buonaiuto, 1977a: 28, Figs 16–19.

Limatula (*Squamilima*) *crebresquamata* (Tate, 1899).—Fleming, 1978: 82, Fig. 97.

Distribution. Port Phillip Basin: Jan Juc Formation (type). Age: late Oligocene.

Limatula S. V. Wood, 1839

***Limatula trula arcis* Fleming, 1978**

Limatula (*Limatula*) *trula arcis* Fleming, 1978: 42, Fig. 12.

Distribution. Port Phillip Basin: Jan Juc Formation. New Zealand (middle–late Oligocene). Age: late Oligocene.

***Limatula strangei* subsp.**

Limatula (*Limatula*) *strangei* subsp. indet. Fleming, 1978: 46, Fig. 23.

Distribution. Gippsland Basin: Bairnsdale Limestone. Age: middle Miocene.

Stabilima Iredale, 1939

***Stabilima polynema* (Tate, 1886) comb. nov.**

Lima polynema Tate, 1886b: 119, pl. 10, fig. 9.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Stabilima margaritata* (Buonaiuto, 1977) comb. nov.**

Limatula margaritata Buonaiuto, 1977a: 21, Figs 1, 6–9.

Distribution. St Vincent Basin: Tortachilla Limestone (type). Blanche Point Formation. Age: late Eocene.

***Stabilima jeffreysiana* (Tate, 1885)**

Lima jeffreysiana Tate, 1885b: 230.—Tate, 1886b: 119, pl. 4, fig. 8.

Lima (*Limatula*) *jeffreysiana* Tate, 1885.—Harris, 1897: 311.

Limatula jeffreysiana (Tate, 1885).—Buonaiuto, 1977a: 22, Figs 1–5.

Limatula (*Stabilima*) *jeffreysiana jeffreysiana* (Tate, 1885).—Fleming, 1978: 65, Figs 63–65.

Distribution. Murray Basin: Mannum Formation, Morgan Limestone. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Bairnsdale Limestone, Jemmys Point Formation. Bass Basin: Freestone Cove Sandstone (type?). Age: early Miocene–late Miocene.

***Stabilima ludbrookae* (Buonaiuto, 1977) comb. nov.**

Limatula ludbrookae Buonaiuto, 1977a: 28, Figs 1, 10, 11, 27–35.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Order Trigoniida
Superfamily Trigonioidae
Family Trigoniidae
Eotrigonia Cossmann, 1912

***Eotrigonia paleocenica* Darragh, 1986**

Eotrigonia paleocenica Darragh, 1986: 10, Figs 4G, I–L, N, 5A, B; Darragh, 1994: 87, Figs 4R, S.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Eotrigonia eocenica* Darragh, 1986**

Eotrigonia eocenica Darragh, 1986: 11, Figs 5F–I.

Distribution. St Vincent Basin: Rogue Formation? Otway Basin: Browns Creek Formation (type). Age: late Eocene.

***Eotrigonia tubulifera* (Tate, 1885)**

Trigonia tubulifera Tate, 1885a: 3.—Tate, 1886b: 145, pl. 11, figs 13a, b; Harris, 1897: 354.

Eotrigonia tubulifera (Tate, 1885).—Deschet, 1966: 106, pl. 4, figs 2–4; Darragh, 1986: 12, Figs 4A–F, H, 10C, F, 11E.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation. Gellibrand Formation (type). Age: late Oligocene–middle Miocene.

***Eotrigonia intersitans* (Tate, 1896)**

Trigonia tatei Pritchard, 1895: 225, pl. 12, figs 1–3 non Holub and Neumayr, 1882.—Harris, 1897: 353.

Trigonia intersitans Tate in Tate and Dennant, 1896: 146 footnote nom. nov. for *Trigonia tatei* Pritchard, 1895 non Holub and Neumayr, 1882.

Eotrigonia intersitans (Tate, 1896).—Cossmann, 1912c: 77, pl. 3, figs 6–9; Deschet, 1966: 99, pl. 3, figs 8–11; Darragh, 1986: 14, Figs 6A–H.

Distribution. Port Phillip Basin: Lower Maude Limestone (type). Age: late Oligocene.

***Eotrigonia subundulata* (Jenkins, 1865)**

(Type species of genus OD as *Trigonia semiundulata* McCoy = *T. subundulata* Jenkins)

Trigonia subundulata Jenkins, 1865a: 363.—Harris, 1897: 352.

Trigonia semiundulata Jenkins, 1865b: 630, pl., fig. 6.—McCoy, 1866b: 481; 1875b: 22, pl. 19, figs 4, 4a–5; Tate, 1886b: 145; Johnston, 1888, pl. 29, fig. 5; Pritchard, 1903a: 91, pl. 15, figs 3, 4.

Trigonia semiundulata var. *granosa* Pritchard, 1903a: 92, pl. 15, fig. 5.

Trigonia semiundulata var. *lutosa* Pritchard, 1903a: 92, pl. 15, figs 6, 7.

Eotrigonia semiundulata (McCoy).—Cossmann, 1912c: 77, pl. 3, figs 4, 5; Deschet, 1966: 90, pl. 4, figs 6–10.

Eotrigonia semiundulata var. *lutosa* (Pritchard).—Cossmann, 1912c: 77, pl. 3, figs 5–8; Lebkuchner, 1932: 25, fig. 21; Deschet, 1966: 97, pl. 4, figs 5, 11–13.

Eotrigonia lutosa (Pritchard, 1903).—Ludbrook, 1973, pl. 27, fig. 79.

Eotrigonia subundulata (Jenkins, 1865).—Darragh, 1986: 16, Figs 5C, E, 7A–H.

Distribution. Eucla Basin: Abrakurrie Limestone, Nullarbor Limestone. Murray Basin: Bookpurnong Formation. Otway Basin: Fishing Point Marl, Gellibrand Formation, Muddy Creek Formation, Port Campbell Limestone, Goodwood Formation. Port Phillip Basin: Jan Juc Formation (type), Waurn Ponds Limestone, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone, Fossil Bluff Sandstone. Age: late Oligocene–late Miocene.

Neotrigonia Cossmann, 1912

***Neotrigonia acuticostata* (McCoy, 1866)**

Trigonia lamarcki Matheron.—Jenkins, 1866: 202, pl. 10, figs 3–7 non Gray, 1838.

Trigonia acuticostata McCoy, 1866b: 482, fig. 1.—McCoy, 1875b: 21, pl. 19, figs 1, 1a, b, 2; Tate, 1886b: 145; Harris, 1897: 355.

Trigonia lamarcki Gray.—Chapman and Gabriel, 1914: 304, pl. 25, figs 7; Chapman, 1916: pl. 68, fig. 7.

Trigonia margaritacea var. *acuticostata* McCoy, 1866.—Chapman and Gabriel, 1914: 305, pl. 26, fig. 12 (lectotype); Chapman, 1916: pl. 69, fig. 12

Neotrigonia trua Cotton, 1947: 661, pl. 20, figs 5, 6.—Ludbrook, 1955: 29; Ludbrook, 1973: pl. 27, fig. 77.

Neotrigonia cf. *acuticostata* (McCoy, 1866).—Darragh, 1986: 21, Figs 10A, B, D, E, G–I, 11A.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation. Otway Basin: Gellibrand Formation, Port Campbell Limestone, Goodwood Formation, Grange Burn Formation. Port Phillip Basin: Sandringham Sandstone (type).

Gippsland Basin: Wuk Wuk Marl, Tambo River Formation, Jemmys Point Formation. Age: middle–late Miocene.

***Neotrigonia howitti* (McCoy, 1875)**

Trigonia howitti McCoy, 1875a: 316, pl. 18B.—McCoy, 1876: 31, pl. 27, figs 1, 1a, b, 2, 2a–c; Harris, 1897: 354; Chapman and Gabriel, 1914: 305, pl. 25, fig. 10; Chapman, 1916: pl. 68, fig. 10.

Neotrigonia howitti (McCoy).—Cossmann, 1912c: 79, pl. 2, figs 13–15, pl. 4, figs 9–12; Deschet, 1966: 128, pl. 3, figs 1–4, 6; Skwarko, 1967: pl. 24, figs 4, 5; Darragh, 1986: 22, Figs 2B, 8A–G, 9F, G.

Distribution. Otway Basin: Grange Burn Formation. Gippsland Basin: Tambo River Formation, Jemmys Point Formation (type). Age: late Miocene–early Pliocene.

***Neotrigonia strangei* (A. Adams, 1854)**

Neotrigonia bednalli (Verco, 1907) var. —Chapman, 1922: 4, pl. 1, fig. 3.

Neotrigonia acuticostata (McCoy, 1866).—Deschet, 1966: 134, pl. 3, fig. 5.

Neotrigonia strangei (A. Adams, 1854).—Darragh, 1986: 24, Figs 11B, C, H, I.

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation. Eastern Australia (living). Age: late Miocene–early Pliocene–present.

***Neotrigonia medipontea* Darragh, 1986**

Neotrigonia medipontea Darragh, 1986: 25, Figs 9A–E.

Distribution. Murray Basin: Norwest Bend Formation (type). Age: late Pliocene.

***Neotrigonia margaritacea* (Lamarck, 1804)**

(Type species of the genus OD as *Trigonia pectinata* Lamarck, 1819 = *T. margaritacea*)

Neotrigonia margaritacea (Lamarck, 1804).—Darragh, 1986: 26, Figs 2C, 10J–L with synonymy.

Distribution. Otway Basin: Werriook Limestone. Bass Basin: Cameron Inlet Formation, Memana Formation. Southeast Australia (living). Age: late Pliocene–present.

***Neotrigonia uniophora* (Gray, 1847)**

Neotrigonia bednalli (Verco, 1907).—Ludbrook, 1978: 50, pl. 1, figs 20, 21.

Neotrigonia uniophora (Gray, 1847).—Darragh, 1986: 30, Fig. 11F.

Distribution. Eucla Basin: Roe Calcarenite. Northern Australia (living). Age: late Pliocene–present.

Order Carditida
Superfamily Carditoidea
Family Carditidae
Cardita Bruguière, 1792

***Cardita alata* (Tate, 1886)**

Mytilicardia alata Tate, 1886b: 149, pl. 2, fig. 12.

Cardita (*Jasonia*)*alata* (Tate, 1886).—Ludbrook, 1973: pl. 24, fig. 10.

Distribution. St Vincent Basin: Blanche Point Formation (type).
Age: late Eocene.

***Cardita platycostata* (Johnston, 1880) comb. nov.**

Mytilicardia platycostata Johnson, 1880: 40.—Tate, 1886b: 150.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Cardita compta* (Tate, 1886)**

Mytilicardia compta Tate, 1886b: 149, pl. 12, fig. 2.

Cardita compta (Tate, 1886).—Ludbrook, 1955: 40, pl. 2, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Norwest Bend Formation. Otway Basin: Grange Burn Formation (type). Age: middle Miocene–late Pliocene.

***Cardita subdeceptiva* Ludbrook, 1955**

Cardita subdeceptiva Ludbrook, 1955: 40, pl. 4, fig. 14; Ludbrook, 1983: 41, Figs 2f, g; Ludbrook, 1984: 242, Figs 58n, o.

Distribution. St Vincent Basin: Dry Creek Sands (type), Point Ellen Formation. Age: middle Miocene, late Pliocene.

***Cardita kalimnae* (Pritchard, 1903) comb. nov.**

Mytilicardia kalimnae Pritchard, 1903a: 97, pl. 12, fig. 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type).
Age: late Miocene–early Pliocene.

***Cardita sorrentae* Chapman and Crespin, 1928**

Cardita sorrentae Chapman and Crespin, 1928: 101, pl. 11, figs 77, 78.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: late Miocene?

Rotundicardia Heaslip, 1968

***Rotundicardia petraea* (Darragh, 1994)**

Venericardia (*Rotundicardia*) *petraea* Darragh, 1994: 93, Figs 6E, F, I–L; Stilwell, 2005: 335, Figs 2I–K.

Distribution. Perth Basin: Kings Park Formation. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Rotundicardia latissima* (Tate, 1886) comb. nov.**

Cardita latissima Tate, 1886b: 153, pl. 2, fig. 5.

Venericardia latissima (Tate, 1886).—Chapman and Singleton, 1927: 118, pl. 11, figs 22, 23.

Cardium arcaiformis Chapman and Crespin, 1934: 121, pl. 11, figs 25–27 non Gabb, 1869.

Fragum chapmani Crespin, 1945: 23 nom. nov. for *Cardium arcaiformis* Chapman and Crespin, 1934 non Gabb, 1869.

Glans latissima (Tate, 1886).—Ludbrook, 1973: pl. 24, figs 11, 12.

Glans (Fasciculicardia) latissima (Tate, 1886).—Darragh and Kendrick, 1980: 17, Figs 4G–L.

Glyptoactis (Fasciculicardia) sp. cf. *G.(F.) latissima* (Tate, 1886).—Darragh and Kendrick, 2008: 226, Fig. 1.5.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: middle–late Eocene.

***Rotundicardia curta* (Tate, 1886) comb. nov.**

Mytilicardia curta Tate, 1886b: 150, pl. 2, fig. 9.

Distribution. St Vincent Basin: Blanche Point Formation (type).
late Eocene.

Probably a synonym of *F. latissima*.

***Rotundicardia janjukiensis* (Chapman and Singleton, 1927) comb. nov.**

Venericardia janjukiensis Chapman and Singleton, 1927: 120, pl. 11, figs 30a, b, 31.—Crespin, 1950: 153, pl. 14, fig. 7.

Distribution. Port Phillip Basin: Jan Juc Formation (type).
Gippsland Basin: Lakes Entrance Formation. Age: late Oligocene.

***Rotundicardia maudensis* (Pritchard, 1895) comb. nov.**

Cardita maudensis Pritchard, 1895: 229, pl. 12, figs 6, 7.—Harris, 1897: 360.

Distribution. Port Phillip Basin: Lower Maud Limestone (type).
Age: late Oligocene.

***Rotundicardia gracilicostata* (Tenison Woods, 1877) comb. nov.**

Cardita gracilicostata Tenison Woods, 1877: 112.—Tate, 1886b: 152, pl. 2, figs 6, 8.

Venericardia gracilicostata (Tenison Woods, 1877).—Chapman and Singleton, 1927: 118, pl. 11, figs 20, 21.

Glans gracilicostata (Tenison Woods, 1877).—Ludbrook, 1967: 66, pl. 2, figs 46, 47.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Rotundicardia tasmanica* (Tate, 1886) comb. nov.**

Cardita tasmanica Tate, 1886b: 154, pl. 12, fig. 13.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Rotundicardia murrayana* (Tate, 1886) comb. nov.**

Cardita murrayana Tate, 1886b: 151, pl. 2, fig. 2.

Distribution. Murray Basin. Mannum Formation (type). Age: early Miocene.

***Rotundicardia scabrosa* (Tate, 1886) comb. nov.**

Cardita scabrosa Tate, 1886b: 152, pl. 2, fig. 4.

Cardita polynema Tate, 1886b: 153, pl. 2, fig. 7.

Venericardia scabrosa (Tate, 1886).—Chapman and Singleton, 1927: 119, pl. 11, figs 24–26.

Venericardia scabrosa var. *polynema* (Tate, 1886).—Chapman and Singleton, 1927: 120, pl. 11, figs 27–29.

Distribution. Murray Basin. Morgan Limestone (type). Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.

***Rotundicardia delicatula* (Tate, 1886) comb. nov.**

Cardita delicatula Tate, 1886b: 154, pl. 2, fig. 10.

Distribution. Murray Basin: Morgan Limestone (type). Age: middle Miocene.

***Rotundicardia spinulosa* (Tate, 1886) comb. nov.**

Cardita spinulosa Tate, 1886b: 153, pl. 2, fig. 3.

Glans spinulosa (Tate, 1886).—Ludbrook, 1955: 41, pl. 4, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Rotundicardia depressulata* (Chapman and Crespin, 1933) comb. nov.**

Venericardia depressulata Chapman and Crespin, 1933: 67, pl. 5, fig. 3.

Distribution. Gippsland Basin: Tambo River Formation, Jemmys Point Formation (type). *Age:* late Miocene–early Pliocene.

Glans Megerle von Mühlfeld, 1811

***Glans kelimnae* Crespin, 1959**

Venericardia spinulosa var. *dennanti* Chapman and Crespin, 1933: 68, pl. 5, figs 5, 6.

Glans dennanti (Chapman and Crespin, 1933).—Ludbrook, 1955: 41, pl. 2, fig. 6.

Glans kelimnae Crespin, 1959: 1127 nom. nov. for *Venericardia spinulosa* var. *dennanti* Chapman and Crespin, 1933 non *Glans dennanti* (Tate and Basedow, 1902).

Distribution. St Vincent Basin: Dry Creek Sands. Gippsland Basin: Tambo River Formation, Jemmys Point Formation (type). *Age:* middle–early Pliocene.

***Glans dennanti* (Tate and Basedow, 1902)**

Cardita dennanti Tate and Basedow in Basedow, 1902: 132, pl. 2, fig. 4.

Glans dennanti (Tate and Basedow, 1902).—Ludbrook, 1959b: 226, pl. 2 figs 2, 3.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.

Purpurocardia P. A. Maxwell, 1969

***Purpurocardia purpurata* (Deshayes, 1854)**

Venericardia quoyi Deshayes, 1852.—Ludbrook, 1978: 54, pl. 3, fig. 14.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Carditella E. A. Smith, 1881

***Carditella regularis* Pritchard, 1901**

Carditella regularis Pritchard, 1901: 28, pl. 2, fig. 5.

Distribution. Port Phillip Basin. Gellibrand Formation (type). *Age:* middle Miocene.

***Carditella vincentensis* Verco, 1908**

Cyclocardia (*Scalaricardita*) *vincentensis* (Verco, 1908).—Ludbrook, 1978: 54.

Distribution. Eucla Basin. Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Scalaricardita Sacco, 1899

***Scalaricardita compacta* (Tate, 1886) comb. nov.**

Cardita compacta Tate, 1886b: 151, pl. 2, fig. 13.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Scalaricardita subcompacta* (Chapman and Crespin, 1928)**

Venericardia subcompacta Chapman and Crespin, 1928: 102, pl. 5, fig. 21, pl. 11, fig. 80.

Cyclocardia (*Scalaricardita*) *subcompacta* (Chapman and Crespin, 1928).—Ludbrook, 1955: 43, pl. 2, figs 5, 8.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Gellibrand Formation (type). Gippsland Basin: Jemmys Point Formation. *Age:* middle–late Miocene.

Vimentum Iredale, 1925

***Vimentum?* sp.**

Cyclocardia (*Vimentum*)? Darragh and Kendrick, 2000: 28, Figs 3D, F.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Vimentum calva* (Tate, 1887) comb. nov.**

Cardita calva Tate, 1887a: 189, pl. 20, fig. 14.—Chapman and Gabriel, 1914: 310, pl. 27, fig. 18, Chapman, 1916: 391, pl. 70, fig. 18.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Grange Burn Formation (type, fide Dennant and Kitson, 1903: 123 footnote). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. *Age:* middle Miocene–early Pliocene.

Arcturellina Chavan, 1951

***Arcturellina hindmarshensis* (Ludbrook, 1955)**

Cyclocardia (*Arcturellina*) *hindmarshensis* Ludbrook, 1955: 44, pl. 2, fig. 9.

Distribution. St Vincent Gulf: Dry Creek Sands (type). *Age:* middle Miocene.

***Arcturellina peridonea* (Ludbrook, 1955)**

Cyclocardia (*Arcturellina*) *peridonea* Ludbrook, 1955: 44, pl. 2, fig. 7.

Distribution. St Vincent Gulf: Dry Creek Sands (type). *Age:* middle Miocene.

***Arcturellina gippslandica* (Chapman and Crespin, 1933) comb. nov.**

Venericardia gippslandica Chapman and Crespin, 1933: 67, pl. 5, fig. 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene.

***Arcturellina solida* (Tate, 1887) comb. nov.**

Cardita solida Tate, 1887a: 189, pl. 20, fig. 18; Harris, 1897: 360.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Age: late Miocene–Pliocene.

Pleuromeris Conrad, 1867

***Pleuromeris subpecten* Ludbrook, 1955**

Pleuromeris subpecten Ludbrook, 1955: 42, pl. 2, fig. 3.—Ludbrook, 1983: 41, Figs 2p, q; Ludbrook, 1984: 242, Figs 58r, s.

Distribution. St Vincent Gulf: Dry Creek Sands (type), Point Ellen Formation. Age: middle Miocene, late Pliocene.

***Pleuromeris pecten* (Tate, 1886)**

Cardita pecten Tate, 1886b: 151, pl. 2, fig. 11.

Pleuromeris pecten (Tate, 1886).—Ludbrook, 1955: 42.

Distribution. St Vincent Gulf: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Age: middle Miocene, early Miocene.

***Pleuromeris trigonalis* (Tate, 1886)**

Cardita trigonalis Tate, 1886b: 151, pl. 2, fig. 1.

Pleuromeris trigonalis (Tate, 1886).—Ludbrook, 1955: 43, pl. 2, fig. 4.

Distribution. St Vincent Gulf: Dry Creek Sands, Hallett Cove Sandstone (type). Age: middle Miocene, late Pliocene.

***Pleuromeris archaenepeanensis* (Chapman and Crespin, 1928) comb. nov.**

Venericardia archaenepeanensis Chapman and Crespin, 1928: 102, pl. 11, fig. 79.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: late Miocene.

Venericardia Lamarck, 1801

***Venericardia capricornia* Darragh and Kendrick, 2008**

Venericardia capricornia Darragh and Kendrick, 2008: 31, Figs 2A–D, 3C, D.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone (type). Age: late Eocene.

***Venericardia excrescens* (Pritchard, 1903) comb. nov.**

Cardita excrescens Pritchard, 1903a: 98, pl. 12, figs 2, 3.

Distribution. Otway Basin: Gellibrand Formation (type). Age: middle Miocene.

Family Condyllocardiidae

Warrana Laserson, 1953

***Warrana radiata* (Tate, 1886)**

Micromeris radiata Tate, 1886b: 148, pl. 10, figs 12a, b.

Carditella radiata (Tate, 1886).—Harris: 362.

Warrana radiata (Tate, 1886).—Middelfart, 2002: 67.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

***Warrana rugosa* (Tate, 1886)**

Micromeris rugosa Tate, 1886b: 148, pl. 10, fig. 11.

Cuna rugosa (Tate, 1886).—Ludbrook, 1973, pl. 24, figs 20–21.

Warrana rugosa (Tate, 1886).—Middelfart, 2002: 67.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Age: late Eocene.

Cuna Hedley, 1902

***Cuna aporema* Cotton, 1947**

Cuna aporema Cotton, 1947: 662, pl. 20, figs 7, 8.—Ludbrook, 1955: 39.

Distribution. St Vincent Basin: Dry Creek Sands (type).

Age middle Miocene.

***Cuna polita* (Tate, 1887)**

Carditella polita Tate, 1887a: 188, pl. 20, figs 20, 21.

Cuna polita (Tate, 1887).—Ludbrook, 1955: 39, pl. 1, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type?), Grange Burn Formation. Age: middle Miocene, late Pliocene.

Condylocardia F. Bernard, 1896

***Condylocardia tenuicostae* Chapman and Gabriel, 1914**

Condylocardia tenuicostae Chapman and Gabriel, 1914: 309, pl. 27, figs 17a–c.—Chapman, 1916: 388, pl. 70, figs 17a–c; Ludbrook, 1955: 45, pl. 1, figs 18, 19.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Bookpurnong Formation (type). Age: middle Miocene.

Carditellopsis Iredale, 1936

***Carditellopsis bellissima* Darragh, 1994**

Carditellopsis bellissima Darragh, 1994: 94, figs 6A–C, G, H, M, N.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

Superfamily Crassatelloidea

Family Astartidae

Astarte J. Sowerby, 1816

***Astarte (Astarte) notialis* Darragh, 1994**

Astarte (Astarte) notialis Darragh, 1994: 90, Figs 4H–K.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

Family Crassatellidae

Landinia Chavan, 1952

***Landinia dennanti* (Tate, 1886) comb. nov.**

Crassatella dennanti Tate, 1886b: 146, pl. 11, fig. 2.—Harris, 1897: 363.

Distribution. Otway Basin: Gellibrand Formation, Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: early–middle Miocene.

Salaputium Iredale, 1924

***Salaputium lamellatum* (Tate, 1886)**

Gouldia lamellata Tate, 1886b: 148, pl. 2, figs 17a, b.

Carditella lamellata (Tate, 1886).—Harris, 1897: 362.

Salaputium lamellata (Tate, 1886).—Ludbrook, 1973: pl. 24, figs 22, 23.

Distribution. St Vincent Gulf: Blanche Point Formation (type). Age: late Eocene.

***Salaputium communis* (Tate, 1886)**

Crassatella corrugata Tate, 1886b: 147, pl. 2, fig. 14 non Adams and Reeve, 1850.

Crassatella astartiformis Tate, 1886b: 147, pl. 11, figs 12, 15 non Nyst, 1847.

Crassatella communis Tate in Tate and Dennant, 1896: 129 footnote, nom. nov. for *Crassatella astartiformis* Tate, 1886 non Nyst, 1847.—Harris, 1897: 364.

Crassatella tatei Cossmann, 1913: 64 nom. nov. for *Crassatella astartiformis* Tate, 1886 non Nyst, 1847.

Salaputium aldingensis Finlay, 1930: 38 nom. nov. for *Crassatella corrugata* Tate, 1886 non Adams and Reeve, 1850.

Salaputium communis (Tate, 1886).—Darragh and Kendrick, 1980: 18, Figs 5A–C; Darragh and Kendrick, 2000: 29.

Distribution. Eucla Basin: Werillup Formation, Pallinup Formation. St Vincent Basin: Blanche Point Formation (type?). Otway Basin: Browns Creek Formation, Glen Aire Clay. middle–late Eocene.

***Salaputium abbreviatum* (Tate, 1886) comb. nov.**

Crassatella abbreviata Tate, 1886b: 147, pl. 11, fig. 16.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Salaputium multilamellum* (Tate, 1887)**

Carditella multilamella Tate, 1887a: 189, pl. 20, fig. 17.

Salaputium multilamellatum [sic] (Tate, 1887).—Middelfart: 2002: 12.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Salaputium corioensis* Chapple, 1934**

Salaputium corioensis Chapple, 1934: 162, pl. 19, figs 1, 1a.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Gippsland Basin: Wuk Wuk Marl. Age: middle Miocene.

Eucrassatella Iredale, 1924

***Eucrassatella oblonga* (Tenison Woods, 1876)**

Crassatella oblonga Tenison Woods, 1876: 25, fig. 11.—Johnston, 1888: pl. 29, figs 1, 1a.

Crassatella aphrodina Tenison Woods, 1876: 24, fig. 12.—Tate, 1886b: 147; Johnston, 1888: pl. 29, fig. 2.

Crassatellites oblonga (Tenison Woods, 1876).—May, 1919b: 105.

Eucrassatella oblonga (Tenison Woods, 1876).—Darragh, 1965a: 99, pl. 12, figs 4, 9, 10, pl. 14, fig. 21; Darragh, 1965b: 90, pl. 7, figs 5–7; Ludbrook, 1967: 66, pl. 1, figs 1, 3–5.

Distribution. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone. Age: early Miocene.

***Eucrassatella eupontica* Darragh, 1965**

Eucrassatella eupontica Darragh, 1965a: 101, pl. 13, figs 13, 14, 16, pl. 15, fig. 32.

Eucrassatella deltooides Darragh, 1965.—Ludbrook, 1973, pl. 27, fig. 75 non Darragh, 1965.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation, Sandringham Sandstone (type). Gippsland Basin: Bairnsdale Limestone, Tambo River Formation. Age: middle–late Miocene.

***Eucrassatella rosicollina* Darragh, 1965**

Eucrassatella rosicollina Darragh, 1965a: 102, pl. 12, figs 5–7.

Distribution. Gippsland Basin: Tambo River Formation (type). Age: late Miocene.

***Eucrassatella dorsennata* Darragh, 1965**

Eucrassatella camura (Pritchard, 1903).—Cotton, 1947: 662, pl. 20, fig. 15, 16; Ludbrook, 1955: 38, pl. 5, fig. 4.

Eucrassatella kingicoloides [sic] (Pritchard, 1903).—Crespin, 1950: 153, pl. 14, fig. 6; *E. kingicoloides* Ludbrook, 1955: 39, pl. 5, fig. 6.

Eucrassatella dorsennata Darragh, 1965a: 103, pl. 13, fig. 18, pl. 14, figs 27–29.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Goodwood Formation. Gippsland Basin: Jemmys Point Formation (type). Age: middle Miocene–early Pliocene.

***Eucrassatella camura* (Pritchard, 1903)**

Crassatellites camurus Pritchard, 1903a: 96, pl. 14, figs 5–9.

Eucrassatella camura (Pritchard, 1903).—Darragh, 1965a: 105, pl. 13, fig. 12, pl. 14, fig. 24, pl. 15, figs 33, 34.

Distribution. Otway Basin: Goodwood Formation, Grange Burn Formation (type). Age: late Miocene–early Pliocene.

***Eucrassatella kingicoloides* (Pritchard, 1903)**

Crassatellites kingicoloides Pritchard, 1903a: 94, pl. 13, figs 1–3.

Eucrassatella kingicoloides (Pritchard, 1903).—Darragh, 1965a: 106, pl. 14, figs 23, 25, 26.

Distribution. Gippsland Basin: Jemmys Point Formation (type). Age: late Miocene–early Pliocene.

***Eucrassatella deltooides* Darragh, 1965**

Eucrassatella deltooides Darragh, 1965a: 107, pl. 13, figs 15, 17, pl. 15, figs 30, 31; Darragh 1965b: 89, pl. 7, figs 1–4.

Distribution. Bass Basin: Cameron Inlet Formation (type). Age: late Pliocene.

***Eucrassatella donacina* (Lamarck, 1818)**

Eucrassatella donacina (Lamarck, 1818).—Ludbrook, 1978: 55, pl. 3, figs 15, 16.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.

***Eucrassatella memanae* Darragh, 1965**

Eucrassatella memanae Darragh, 1965a: 108, pl. 12, figs 2, 3, pl. 13, figs 19, 20.

Distribution. Bass Basin: Memana Formation (type). *Age*: early Pleistocene.

Spissatella Iredale, 1926

***Spissatella maudensis* (Pritchard, 1903)**

Crassatellites maudensis Pritchard, 1903a: 93, pl. 14, figs 2, 3.

Spissatella maudensis (Pritchard, 1903).—Darragh, 1965a: 110, pl. 12, figs 1, 8, pl. 13, fig. 11, pl. 14, fig. 22; Collins et al., 2013: Fig. 2K

Eucrassatella maudensis (Pritchard, 1903).—Collins et al., 2014: 114, Figs 10H–J.

Distribution. Port Phillip Basin: Jan Juc Formation (type), Lower Maude Limestone. *Age*: late Oligocene.

Order Lucinida
Superfamily Lucinoidea
Family Lucinidae
Jagolucina Chavan, 1937

***Jagolucina? psephenata* Darragh, 1997**

Jagolucina? sp. Darragh, 1994: 87, Figs 4E, G.

Jagolucina? psephenata Darragh, 1997: 104, Figs 12A, H.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

“*Lucina*”

***Lucina projecta* Tate, 1886**

Lucina projecta Tate, 1886b: 158, pl. 12, fig. 6; Tate, 1887a: 143.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Lucina leucomomorpha* Tate, 1886**

Lucina leucomomorpha Tate, 1886b: 158, pl. 12, fig. 7; Tate, 1887a: 142.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Lucina gunyoungensis* Pritchard, 1903**

Lucina gunyoungensis Pritchard, 1903a: 98, pl. 14, fig. 13.

Distribution. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation (type). *Age*: late Oligocene–middle Miocene.

Cardiolucina Sacco, 1901

***Cardiolucina nuciformis* (Tate, 1886) comb. nov.**

Lucina nuciformis Tate, 1886b: 158, pl. 12, figs 10a, b.—Tate, 1887a: 144; Harris, 1897: 385.

Linga (*Bellucina*) *nuciformis* (Tate, 1886).—Ludbrook, 1955: 49, pl. 2, figs 14, 15.

Distribution. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). *Age*: middle Miocene–late Pliocene.

***Cardiolucina crassilirata* (Tate, 1887)**

Linga (*Bellucina*) *crassilirata* (Tate, 1887).—Ludbrook, 1978: 53.

Distribution. Eucla Basin: Roe Calcarenite. Southeastern Australia (living). *Age*: late Pliocene–present.

***Cardiolucina praetermissa* (Ludbrook, 1983)**

Linga (*Bellucina*) *praetermissa* Ludbrook: 1983: 41, figs 3a–d; Ludbrook, 1984: 242, Figs 59e, f.

Distribution. St Vincent Basin: Point Ellen Formation (type). Southern Australia (living). *Age*: late Pliocene–present.

Callucinella Chavan, 1961

***Callucinella balcombica* (Cossmann, 1912)**

Lucina affinis Tate, 1887a: 143, pl. 18, fig. 11 non Eichwald, 1830.

Lucina balcombica Cossmann, 1912a: 214 nom. nov. for *Lucina affinis* Tate, 1887 non Eichwald, 1830.

Callucina balcombica (Cossmann, 1912).—Ludbrook, 1955: 50, pl. 2, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Norwest Bend Formation (type). *Age*: middle Miocene, late Pliocene.

Pseudolucinisca Chavan, 1959

***Pseudolucinisca lacteola* (Tate, 1897)**

Callucina lacteola (Tate, 1897).—Ludbrook, 1978: 51, pl. 3, figs 2–5.

Distribution. Eucla Basin: Roe Calcarenite. Western and southern Australia (living). *Age*: late Pliocene–present.

Wallucina Iredale, 1930

***Wallucina simulans* (Tate, 1887) comb. nov.**

Loripes simulans Tate, 1887a: 146, pl. 14, fig. 19.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age*: late Pliocene.

Epicodakia Iredale, 1930

***Epicodakia* sp.**

Epicodakia sp. Darragh and Kendrick, 2008: 226, Fig. 1.20; Taylor et al., 2011: Fig. 6N.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age*: late Eocene.

***Epicodakia* sp.**

Epicodakia sp. Darragh and Kendrick, 1980: 17, Figs 4M, N.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

***Epicodakia araneosa* (Tate, 1887) comb. nov.**

Lucina araneosa Tate, 1887a: 144, pl. 20, fig. 13.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Epicodakia despectans* (Tate, 1887) comb. nov.**

Lucina despectans Tate, 1887a: 144, pl. 20, figs 15, 16.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Monitilora Iredale, 1930

***Monitilora idonea* Ludbrook, 1955**

Monitilora (Monitilora) idonea Ludbrook, 1955: 47, pl. 3, figs 1, 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Prophetilora Iredale, 1930

***Prophetilora chavani* (Ludbrook, 1955)**

Monitilora (Prophetilora) chavani Ludbrook, 1955: 47, pl. 2, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Gonimyrtea Marwick, 1929

***Gonimyrtea araea* (Tate, 1887)**

Lucina araea Tate, 1887a: 143, pl. 19, fig. 9.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.

Remarks. The holotype has disintegrated, and identification is impossible (Ludbrook, 1955: 79).

***Gonimyrtea salisburyensis* Ludbrook, 1955**

Gonimyrtea salisburyensis Ludbrook, 1955: 50, pl. 2, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Gonimyrtea crassior* Ludbrook, 1955**

Gonimyrtea crassior Ludbrook, 1955: 51, pl. 3, figs 3, 4.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Gonimyrtea validior* Ludbrook, 1955**

Gonimyrtea validior Ludbrook, 1955: 52, pl. 3, figs 5, 6.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Gonimyrtea notabilior* Ludbrook, 1955**

Gonimyrtea notabilior Ludbrook, 1955: 53, pl. 3, figs 7, 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Myrtea Turton, 1822

***Myrtea faseolata* Darragh, 1994**

Myrtea faseolata Darragh, 1994: 88, Figs 5A–G.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Myrtea fabuloides* (Tate, 1886)**

Lucina fabuloides Tate, 1886b: 158, pl. 12, fig. 5.—Tate, 1887a: 145.

Myrtea fabuloides (Tate, 1886).—Ludbrook, 1955: 46, pl. 2, fig. 16; Ludbrook, 1978: 51, pl. 9, fig. 18.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). *Age:* middle Miocene–late Pliocene.

Miltha H. and A. Adams, 1857

***Miltha* sp.**

Miltha sp. Darragh and Kendrick, 2010: 29, Figs 1J, L, 3E.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. *Age:* late Eocene.

***Miltha nullarborensis* Ludbrook, 1969**

Miltha nullarborensis Ludbrook, 1969a: 61, pl. 4, figs 3–6.—Ludbrook, 1973: pl. 26, fig. 61.

Distribution. Eucla Basin: Nullarbor Limestone (type). St Vincent Basin: Melton Limestone. *Age:* early–middle Miocene.

***Miltha hora* (Cotton, 1947)**

Dosinia grandis N. H. Woods, 1931: 148, pl. 7, figs 5, 6 non Nelson, 1870.

Miltha (Milthoidea) grandis (N. H. Woods, 1931).—Singleton and Woods, 1934: 208, pl. 8, figs 1a, b, 2a, b, 3.

Milthoidea hora Cotton, 1947: 663 nom. nov. for *Dosinia grandis* N. H. Woods, 1931 non Nelson, 1870.

Miltha hora (Cotton, 1947).—Ludbrook, 1955: 53.

Miltha flindersiana Singleton and Woods, 1934 (in part).—Ludbrook, 1969a: 59, pl. 2, figs 1, 6.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Miltha dennanti* Wilkins, 1963**

Miltha flindersiana dennanti Wilkins, 1963: 43, pl. 5, figs 3, 4.

Miltha dennanti Wilkins, 1962[sic]: Ludbrook, 1969a: 59, pl. 1, figs 1–6.

Distribution. Murray Basin: Bookpurnong Formation. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Tambo River Formation (type). *Age:* middle–late Miocene.

***Miltha lindsayi* Ludbrook, 1969**

Miltha lindsayi Ludbrook, 1969a: 61, pl. 5, figs 1–7.

Distribution. St Vincent Basin: Hallett Cove Sandstone. Murray Basin: Norwest Bend Formation (type). *Age:* late Pliocene.

***Miltha hamptonensis* Ludbrook, 1969**

Miltha hamptonensis Ludbrook, 1969a: 60, pl. 3, figs 1–3, pl. 4, figs 1, 2.—Ludbrook, 1978: 52, pl. 3, figs 1, 10; Ludbrook, 1983: 41, fig. 2b; Ludbrook, 1984: 242, Fig. 59c.

Distribution. Eucla Basin: Roe Calcarenite (type). St Vincent Basin: Point Ellen Formation. *Age:* late Pliocene.

***Miltha findersiana* Singleton and Woods, 1934**

Miltha (Milthoidea) grandis findersiana Singleton and Woods, 1934: 210, pl. 8, figs 4a, b.

Miltha findersiana Singleton and Woods, 1934.—Wilkins, 1963: 43, pl. 5, figs 1, 2; Ludbrook, 1969a: 59, pl. 2, figs 2–5.

Distribution. Bass Basin: Cameron Inlet Formation (type). *Age:* late Pliocene.

Gibbolucina Cossmann, 1904

***Gibbolucina salebrosa* (N. H. Woods, 1931)**

Codakia salebrosa N. H. Woods, 1931: 149, pl. 8, figs 4, 5.

Eomiltha (Gibbolucina) salebrosa (N. H. Woods, 1931).—Ludbrook, 1955: 48, pl. 6, fig. 3;

Gibbolucina (Gibbolucina) salebrosa (N. H. Woods, 1931).—Ludbrook, 1978: 53, pl. 3, figs 6–9.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene, late Pliocene.

***Gibbolucina confirmans* (Ludbrook, 1955)**

Eomiltha (Gibbolucina) confirmans Ludbrook, 1955: 49, pl. 2, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Pegophysema Stewart, 1930

***Pegophysema sphericula* (Basedow, 1902) comb. nov.**

Meretrix sphericula Basedow, 1902: 131, pl. 2, fig. 2.

Glycymeris australis var. *gigantea* Chapman, 1915b: 49.—Chapman and Singleton, 1925: 47, pl. 3, fig. 32, pl. 4, fig. 22.

Anodontia sphericula (Basedow, 1902).—Ludbrook, 1959b: 227, pl. 3, figs 1–3, pl. 5, figs 1, 4; Ludbrook, 1973: pl. 26, fig. 65; Ludbrook, 1978: 52, pl. 5, fig. 1; 1983: 41, fig. 2a; Ludbrook, 1984: 240, Fig. 59d.

Distribution. Eucla Basin: Nullarbor Limestone, Roe Calcarenite. St Vincent Basin: Melton Limestone, Dry Creek Sands, Point Ellen Formation, Hallett Cove Sandstone (type). *Age:* middle Miocene–late Pliocene.

Divalucina Iredale, 1936

***Divalucina cumingi* (Adams and Angus, 1864)**

Lucina dentata Wood: Tate 1886b: 158, pl. 12, fig. 3 non Wood.

Lucina quadrisulcata d'Orbigny, 1847.—Tate, 1887a: 145, citing Tate 1886b: pl. 12, fig. 3 non d'Orbigny, 1847.

Divalucina entypoma Cotton, 1947: 663, pl. 20, figs 9, 10.

Divalucina cumingi (Adams and Angus, 1863).—Ludbrook, 1955: 54, pl. 3, fig. 9.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Norwest Bend Formation. Port Phillip Basin: Sandringham Sandstone. Bass Basin: Cameron Inlet Formation, Memana Formation. Southern Australia (living). *Age:* middle Miocene–present.

Codakia Scopoli, 1777

***Codakia* (?) sp.**

Codakia (?) sp. McNamara and Kendrick, 1994: 19, Figs 8C, D.

Distribution. Poivre Formation. *Age:* middle Miocene.

Fimbria Megerle von Mühlfeld, 1811

***Fimbria* aff. *F. soverbii* (Reeve, 1841)**

Fimbria aff. *soverbii* (Reeve, 1842) [sic]: McNamara and Kendrick, 1994: 19, Figs 8E, F.

Distribution. Poivre Formation. *Age:* middle Miocene.

Saltocuna Iredale, 1936

***Saltocuna particula* (Hedley, 1902)**

Cuna particula Hedley, 1902.—Chapman and Crespin, 1933: 66, pl. 5, figs 1, 2; Middelfart, 2002: 113.

Distribution. Gippsland Basin: Jemmys Point Formation. Eastern Australia (living). *Age:* late Miocene–present.

Superfamily Thyasiroidea

Family Thyasiridae

Thyasira Lamarck, 1818

***Thyasira* sp.**

Thyasira sp. Darragh, 1994: 89, Figs 4P, Q.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Thyasira sinuata* (N. H. Woods, 1931)**

Cryptodon sinuatum N. H. Woods, 1931: 149: pl. 8, fig. 6.

Thyasira sinuata (N. H. Woods, 1931).—Ludbrook, 1955: 56, pl. 6, fig. 6.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Thyasira mactraeformis* (Tate, 1887) comb. nov.**

Cryptodon mactraeformis Tate, 1887a: 146, pl. 19, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Thyasira subflexuosa* (Tate, 1895) comb. nov.**

Cryptodon subflexuosus Tate, 1895: 262.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

Order Galeommatida
 Superfamily Galeomatoidea
Family Lasaeidae
Litigiella Monterosato, 1909

***Litigiella crassa* (Tate, 1880) comb. nov.**

Lepton crassum Tate, 1880: 130, pl. 5, fig. 9.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Litigiella adelaidensis* Ludbrook, 1955**

Litigiella adelaidensis Ludbrook, 1955: 57, pl. 3, fig. 11.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Borniola Iredale, 1924

***Borniola flabellaris* Darragh, 1997**

Borniola? sp. Darragh, 1994: 89, Figs 4N, O.

Bornia flabellaris Darragh, 1997: 104, Figs 12D–F.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

Myllita d'Orbigny and Récluz, 1850

***Myllita hindmarshensis* Ludbrook, 1955**

Myllita hindmarshensis Ludbrook, 1955: 57, pl. 3, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Lepton Turton, 1822

***Lepton macer* (N. H. Woods, 1931) comb. nov.**

Rochefortia macer N. H. Woods, 1931: 147, pl. 7, fig. 3.

Mysella macer (N. H. Woods, 1931).—Ludbrook, 1955: 60, pl. 6, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Remarks. Possibly a juvenile mastrid.

***Lepton trigonale* Tate, 1880**

Bornia trigonale (Tate, 1879 [sic]).—Ludbrook, 1955: 56, pl. 3, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands. Southern Australia (living). Age: middle Miocene–present.

***Lepton planiusculum* Tate, 1880**

Lepton planiusculum Tate, 1880: 130, pl. 5, fig. 12.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Age: late Pliocene.

Arthritica Finlay, 1926

***Arthritica micans* (Tate, 1887) comb. nov.**

Kellia micans Tate, 1887a: 148, pl. 19, fig. 13.

Properycina micans (Tate, 1887).—Ludbrook, 1955: 58, pl. 6, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Age: middle Miocene, early Pliocene.

***Arthritica torrensensis* (Ludbrook, 1955) comb. nov.**

Properycina torrensensis Ludbrook, 1955: 58, pl. 3, fig. 13.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Mysella Angas, 1877

***Mysella tellinoides* (N. H. Woods, 1931)**

Rochefortia tellinoides N. H. Woods, 1931: 148, pl. 7, fig. 4.

Mysella tellinoides (N. H. Woods, 1931).—Ludbrook, 1955: 60, pl. 6, fig. 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Mysella sericea* (Tate, 1887) comb. nov.**

Montacuta sericea Tate, 1887a: 148, pl. 14, fig. 6.—Ludbrook, 1955: 59, pl. 3, fig. 15.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Age: middle Miocene, early Pliocene.

***Mysella anomala* Angas, 1877**

Mysella anomala Angas, 1877.—Ludbrook, 1955: 59, pl. 3, fig. 14.

Distribution. St Vincent Basin: Dry Creek Sands. Southeast Australia (living). Age: middle Miocene–present.

***Mysella ovalis* Tate, 1892**

Mysella ovalis Tate, 1892.—Ludbrook, 1955: 59.

Distribution. St Vincent Basin: Dry Creek Sands. South Australia (living). Age: middle Miocene–present.

Order Cardiida
 Superfamily Cyamioidea
Family Cyamiidae
Cyamiocardium Soot-Ryan, 1951

***Cyamiocardium silicula* Darragh, 1994**

Cyamiocardium silicula Darragh, 1994: 90, Figs 4A–D, F.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

Family Basterotiidae
Anisodonta Deshayes, 1857

***Anisodonta subrectangularis* (N. H. Woods, 1931) comb. nov.**

Solecortus subrectangularis N. H. Woods, 1931: 149, pl. 8, fig. 7.—Ludbrook, 1955: 75, pl. 6, fig. 10.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Family Sportellidae
Sportella Deshayes, 1858

***Sportella jubata* Hedley, 1909**

Sportella jubata Hedley, 1909.—Ludbrook, 1955: 45, pl. 1, fig. 20.

Distribution. St Vincent Basin: Dry Creek Sands. Northern Queensland (living). *Age:* middle Miocene–present.

Superfamily Cardioidea
Family Cardiidae
Cardium Linnaeus, 1758

***Cardium? cuculoides* Tate, 1886**

Cardium cuculoides Tate, 1886b: 158, pl. 12, fig. 14a, b.—Tate, 1887a: 152.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Hedecardium Marwick, 1944

***Hedecardium monilectum* (Tate, 1887)**

Cardium monilectum Tate, 1887a: 151, pl. 14, figs 3a, b.

Hedecardium monilectum (Tate, 1887).—Darragh, 2017: 98, Fig. 10.1.

Distribution. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point (type). *Age:* late Eocene.

***Hedecardium pseudomagnum* (McCoy, 1878) comb. nov.**

Cardium pseudomagnum McCoy, 1878: 15, pl. 44, fig. 1, 1a–c.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Hedecardium septuagenarium* (Tate, 1887) comb. nov.**

Cardium septuagenarium Tate, 1887a: 151.—Johnston, 1888: pl. 32, figs 1, 15, 16.

Distribution. Murray Basin. Bookpurnong Formation? Bass Basin: Freestone Cove Sandstone? (type). *Age:* early–middle Miocene.

Vepricardium Iredale, 1929

***Vepricardium antiquum* Ludbrook, 1978**

Vepricardium[sic] *antiquum* Ludbrook, 1978: 55, pl. 4, figs 1–3.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Trachycardium Mörch, 1853

***Trachycardium gippslandicum* Crespin, 1950**

Trachycardium (*Ovicardium*) *gippslandicum* Crespin, 1950: 154, pl. 14, figs 3, 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* late Miocene.

Acrosterigma Dall, 1900

***Acrosterigma* sp.**

Acrosterigma sp. McNamara and Kendrick, 1996: 20, Fig. 8G.

Distribution. Poivre Formation. *Age:* middle Miocene.

***Acrosterigma victoriae* (Tate, 1887) comb. nov.**

Cardium victoriae Tate, 1887a: 151, pl. 14, figs 1a, b.—Harris, 1897: 367.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Acrosterigma submaculosum* (Ludbrook, 1955) comb. nov.**

Vasticardium (*Vasticardium*) *submaculosum* Ludbrook, 1955: 60, pl. 4, fig. 18.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Acrosterigma praecygnorum* (Ludbrook, 1955) comb. nov.**

Vasticardium (*Regozara*) *praecygnorum* Ludbrook, 1955: 61, pl. 4, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Acrosterigma cygnorum* (Deshayes, 1855)**

Acrosterigma (*Regozara*) *cygnorum* (Deshayes, 1855).—Ludbrook, 1978: 56, pl. 4, fig. 4.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia. *Age:* late Pliocene–present.

Fulvia Gray, 1853

***Fulvia tenuicostata* (Lamarck, 1819)**

Fulvia tenuicostata (Lamarck, 1819).—Ludbrook, 1955: 62, pl. 4, fig. 13.

Laevicardium (*Fulvia*) *tenuicostatum* (Lamarck, 1819).—Ludbrook, 1978: 57, pl. 4, fig. 5.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Bass Basin: Memana Formation. Australia (living). *Age:* middle Miocene, late Pliocene–present.

***Fulvia mediosulcata* (Tate and Basedow, 1902) comb. nov.**

Cardium mediosulcata Tate and Basedow in Basedow, 1902: 131, pl. 2, fig. 3.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). *Age:* late Pliocene.

Pratulium Iredale, 1924

***Pratulium hemimeris* (Tate, 1887)**

Cardium hemimeris Tate, 1887a: 153, pl. 14, figs 2a–c.

Protocardium hemimeris (Tate, 1887).—Harris, 1897: 368.

Pratulium hemimeris (Tate, 1887).—Poutiers, 1992, fig. 2h; Darragh and Kendrick, 2008: 227, Fig. 1.15.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). St Vincent Basin: Blanche Point Formation (type). Otway Basin Browns Creek Formation. *Age:* late Eocene.

***Pratulium ornithopetronicum* (Chapman and Crespin, 1928)**

Protocardia ornithopetronica Chapman and Crespin, 1928: 103, pl. 12, fig. 81.

Pratulium ornithopetronicum (Chapman and Crespin, 1928).—Poutiers, 1992, Fig. 2i.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age*: late Oligocene

***Pratulium proterothetidis* (Ludbrook, 1955)**

Nemocardium (Pratulium) proterothetidis Ludbrook, 1955: 64: 3, figs 16, 17.

Pratulium proterothetidis (Ludbrook, 1955).—Poutiers, 1992, Fig. 2j.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

Nemocardium Meek, 1876

***Nemocardium antisemigranulatum* (McCoy, 1878)**

Cardium (Protocardium) antisemigranulatum McCoy, 1878: 16, pl. 44, figs 2, 2a–c, 3.

Cardium antisemigranulatum McCoy, 187. —Tate, 1887a: 152.

Protocardium antisemigranulatum (McCoy, 1877).—Harris, 1897: 368.

Nemocardium antisemigranulatum (McCoy, 1877).—Poutiers, 1992, Fig. 2e.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

Frigidocardium Habe, 1951

***Frigidocardium* sp.**

Frigidocardium sp. Poutiers, 1992, Fig. 2g.

Distribution. Otway Basin: Muddy Creek Formation. *Age*: middle Miocene.

Lahillia Cossmann, 1899

***Lahillia australica* Singleton, 1943**

Lahillia australica Singleton, 1943: 273, pl. 12, figs 3–5.—Ludbrook, 1973: pl. 24, figs 4, 5; Darragh, 1994: 95, Figs 7A–G.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

Superfamily Tellinoidea
Family Tellinidae
Bertinella

***Bertinella lapidaria* Darragh, 1994**

Bertinella lapidaria Darragh, 1994: 95, Figs 6O–V.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

Tellina Linnaeus, 1758

***Tellina cainozoica* Tenison Woods, 1877**

Tellina cainozoica Tenison Woods, 1877: 113.—Tate, 1887a: 164, pl. 18, fig. 5.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Tellina masoni* Tate, 1887**

Tellina masoni Tate, 1887a: 165, pl. 16, figs 6a–c.—Harris, 1897: 387; Ludbrook, 1955: 73.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Tellina albinelloides* Tate, 1887**

Tellina albinelloides Tate, 1887a: 164, pl. 16, figs 4a, b.—Harris, 1897: 386; Ludbrook, 1955: 74, pl. 5, fig. 12.

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. *Age*: middle Miocene?, early Pliocene.

***Tellina* (s. l.) sp.**

Tellina (s. l.) sp. B McNamara and Kendrick, 1996: 21, Figs 9A–C.

Distribution. Carnarvon Basin: Poivre Formation, Trealla Limestone. *Age*: middle Miocene.

Macomona Finlay, 1926

***Macomona stirlingi* (Tate, 1887) comb. nov.**

Tellina stirlingi Tate, 1887a: 166, pl. 16, figs 7a, b.—Harris, 1897: 387.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

Tellinides Lamarck, 1818

***Tellinides margaritinus* (Lamarck, 1818)**

Tellina (Macomona) mariae (Tenison Woods, 1876).—Ludbrook, 1978: 67, pl. 6, fig. 2.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.

Laciolina Iredale, 1937

***Laciolina aldingae* Ludbrook, 1959**

Laciolina aldingae Ludbrook, 1959b: 229, pl. 2, fig. 4.

Tellina (Tellinella) aldingae (Ludbrook, 1959).—Ludbrook, 1978: 66, pl. 6, figs 1, 6.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Hallett Cove Sandstone (type). *Age*: late Pliocene.

Pseudarcopagia Bertin, 1878

***Pseudarcopagia planatella* (Tate, 1885)**

Lucina planatella Tate, 1885b: 229.—Tate, 1886b: 158, pl. 12, fig. 11; Tate, 1887a: 146.

Pseudarcopagia planatella (Tate, 1885).—Ludbrook, 1973: pl. 26, fig. 63.

Distribution. St Vincent Basin: Melton Limestone. Port Phillip Basin: Maude Limestone. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Pseudoarcopagia detrita* N. H. Woods, 1931**

Pseudoarcopagia detrita N. H. Woods, 1931: 149, pl. 7, fig. 9.—Ludbrook, 1955: 74, pl. 6, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Pseudoarcopagia basedowi* (Tate, 1901)**

Tellina basedowi Tate in Basedow, 1901: 148, pl. 3.

Macoma basedowi (Tate, 1901).—Ludbrook, 1959b: 229, pl. 4, figs 3, 4.

Pseudoarcopagia basedowi (Tate, 1901).—Ludbrook, 1973: pl. 28, figs 105, 108.

Tellina (Pseudoarcopagia) basedowi (Tate, 1901).—Ludbrook, 1978: 66, pl. 5, figs 2, 5.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Hallett Cove Sandstone (type). Murray Basin: Norwest Bend Formation. *Age:* late Pliocene.

Semelangulus Iredale, 1924

***Semelangulus porrectus* (Tate, 1887) comb. nov.**

Tellina porrecta Tate, 1887a: 165, pl. 16, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

***Semelangulus tenuiliratus* (Sowerby, 1867)**

Tellina (Semelangulus) tenuilirata (Sowerby, 1867).—Ludbrook, 1978: 65.

Distribution. Eucla Basin: Roe Calcarenite. Southern and Eastern Australia (living). *Age:* late Pliocene–present.

***Semelangulus vincentianus* (Tate, 1891)**

Tellina (Semelangulus) vincentiana (Tate, 1891).—Ludbrook, 1978: 65.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

Strigilla Turton, 1822

***Strigilla australis* Tate, 1887**

Strigilla australis Tate, 1887a: 167, pl. 19, fig. 6.

Distribution. Otway Basin: Grange Burn Formation (type, fide Dennant and Kitson, 1903: 139 footnote). *Age:* early Pliocene.

Macoma Leach, 1879

***Macoma ralphi* (Finlay, 1927) comb. nov.**

Tellina aequaliterata Tate, 1887a: 16, pl. 16, figs 5a, b, 9a, b, pl. 20, fig. 19 non Koch and Dunbar, 1837.—Harris, 1897: 387.

Tellina ralphi Finlay, 1927: 530 nom. nov. for *Tellina aequaliterata* Tate, 1886 non Koch and Dunbar, 1837.—Ludbrook, 1955: 73, pl. 4, figs 9, 10.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). *Age:* middle Miocene, early Pliocene.

Tellinid sp.

Tellina sp. Ludbrook, 1983: 42, figs 21, m; Ludbrook, 1984: 244, Figs 59a, b.

Distribution. St Vincent Basin: Point Ellen Formation. *Age:* late Pliocene.

Incertae sedis

Tellina krausei McCoy in Brough Smyth, 1875: 22, fig. 3.

This taxon is a natural mould in ironstone and insufficient detail is preserved to enable its determination with any certainty.

Chapman (1905) stated that *Tellina krausei* was the senior synonym of *Semele krauseana* Tate, 1887. This conclusion needs to be checked by making a good cast of McCoy's type to compare with specimens of Tate's species.

Family Psammobiidae

Plebidonax Iredale, 1930

***Plebidonax kenyoniana* (Chapman and Gabriel, 1914) comb. nov.**

Donax kenyoniana Chapman and Gabriel, 1914: 312, pl. 27, figs 19a, b, 20, 21.—Chapman, 1916: 391, pl. 70, figs 19a, b, 20, 21.

Distribution. Murray Basin: Bookpurnong Formation (type). *Age:* middle Miocene.

***Plebidonax depressa* (Tate, 1887) comb. nov.**

Donax depressa Tate, 1887a: 168, pl. 16, fig. 11.

Distribution. Murray Basin: Norwest Bend Formation (type). *Age:* late Pliocene.

Gari Schuhmacher, 1817

***Gari modesta* (Deshayes, 1855)**

Psammobia aequalis Tate, 1885a: 4.—Tate, 1887a: 168, pl. 16, fig. 10.

Gari aequalis (Tate, 1885).—Harris, 1897: 378; Ludbrook, 1955: 72.

Gari (Gari) modesta (Deshayes, 1855).—Willan, 1993: 23, Figs 82–93, 383 with extensive synonymy.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type of *P. aequalis*). Western, southern and eastern Australia (living). *Age:* middle Miocene? early Pliocene–present.

***Gari livida* (Lamarck, 1818)**

Psammobia hamiltonensis Tate, 1885a: 4.—Tate, 1887a: 167, pl. 16, fig. 13.

Gari hamiltonensis (Tate, 1885).—Harris, 1897: 377; Ludbrook, 1955: 72, pl. 4, fig. 17.

Gari sp. Ludbrook, 1978: 68, pl. 6, figs 4, 5.

Gari (Psammobia) livida (Lamarck, 1818).—Willan, 1993: 41, Figs 158–170, 390 with extensive synonymy.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type of *P. hamiltonensis*). Port Phillip Basin: Sandringham Sandstone. Eastern and southern Australia (living). *Age:* middle Miocene–present.

***Gari kenyoniana* (Pritchard and Gatliff, 1904)**

Gari (*Psammobia*) *kenyoniana* (Pritchard and Gatliff, 1904).—Willan, 1993: 47, Figs 186–191, 393 with extensive synonymy.

Distribution. Otway Basin: Grange Burn Formation. Southeastern Australia (living). *Age*: early Pliocene–present.

Hiatula Modeer, 1793

***Hiatula biradiata* (Wood, 1815)**

Sanguinolaria (*Psammotellina*) *biradiata* (Wood, 1815).—Ludbrook, 1978: 68, pl. 5, fig. 3, pl. 8, figs 2, 4, 6.

Distribution. Eucla Basin: Roe Calcarenite. Western, southern and eastern Australia (living). *Age*: late Pliocene–present.

Family Semelidae

Semele Schuhmacher, 1817

***Semele vesiculosa* Tate, 1887**

Semele vesiculosa Tate, 1887a: 169, pl. 16, fig. 12.—Harris, 1897: 388; Ludbrook, 1955: 74.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

***Semele krauseana* Tate, 1887**

Semele krauseana Tate, 1887a: 169, pl. 16, figs 18a, b.—Harris, 1897: 388.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

***Semele?* sp.**

Semele (?) sp. McNamara and Kendrick, 1996: 21, Fig. 9D.

Distribution. Carnarvon Basin: Poivre Formation, Trealla Limestone. *Age*: middle Miocene.

Family Solecortidae

Solecortus Blainville, 1824

***Solecortus legrandi* Tenison Woods, 1877**

Solecortus legrandi Tenison Woods, 1876: 25, fig. 14.—Tate, 1887a: 181, pl. 17, fig. 15; Johnston, 1888: pl. 32, fig. 18; Ludbrook, 1967: 66, pl. 2, fig. 45.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Solecortus murrayvianus* Finlay, 1927**

Solecortus ellipticus Tate, 1887a: 182, pl. 16, fig. 14 non Dana, 1849.

Solecortus murrayvianus Finlay, 1927: 531 nom. nov. for *Solecortus ellipticus* Tate, 1887 non Dana, 1849.

Distribution. Murray Basin: Cadell Marl (type). *Age*: middle Miocene.

***Solecortus dennanti* Tate, 1887**

Solecortus dennanti Tate, 1887a: 181, pl. 16, fig. 17.—Ludbrook, 1955: 75.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). *Age*: middle Miocene.

Order Venerida
Superfamily Ungulinoidea
Family Ungulinidae
Zemysia Finlay, 1926

***Zemysia* sp.**

Felaniella (*Zemysia*) sp. Darragh, 1994: 89, Figs 4L, M.

Distribution. Otway Basin: Pebble Point Formation. *Age*: late Paleocene.

Diplodonta Bronn, 1831

***Diplodonta harrisi* Chapman, 1922**

Diplodonta harrisi Chapman, 1922: 8, pl. 2, fig. 12.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age*: late Oligocene.

***Diplodonta balcombensis* Pritchard, 1906**

Diplodonta subquadrata Tate, 1887a: 147, pl. 14, figs 10a, b non Carpenter, 1855.—Johnston, 1888: pl. 32, figs 14, 14a; Harris, 1897: 375.

Diplodonta balcombensis Pritchard, 1906: 117 nom. nov. for *Diplodonta subquadrata* Tate, 1887 non Carpenter, 1855.

Distribution. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Bass Basin: Freestone Cove Sandstone. *Age*: late Oligocene–middle Miocene.

***Diplodonta solitaria* N. H. Woods, 1931**

Diplodonta solitaria N. H. Woods, 1931: 149, pl. 8, fig. 3

Diplodonta (*Diplodonta*) *solitaria* N. H. Woods, 1931.—Ludbrook, 1955: 55, pl. 6, fig. 4.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

Numella Iredale, 1924

***Numella suborbicularis* (Tate, 1887)**

Sacchia suborbicularis Tate, 1887a: 147, pl. 18, figs 10a–c.

Numella suborbicularis (Tate, 1887).—Ludbrook, 1955: 56.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Norwest Bend Formation (type). *Age*: middle Miocene, late Pliocene.

Superfamily Chamoidea

Family Chamidae

Chama Linnaeus, 1758

***Chama* sp.**

Chama sp. Darragh and Kenrick, 2008: 225, Figs 1.2, 1.3.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). *Age*: late Eocene.

***Chama* sp.**

Chama sp. Darragh and Kenrick, 2010: 29, Figs 1A, E, F, I.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. *Age*: late Eocene.

***Chama lamellifera* Tenison Woods, 1877**

Chama lamellifera Tenison Woods, 1877: 114.—Tate, 1887a: 149, pl. 14, figs 5a, b; Pritchard, 1896: 133; Harris, 1897: 369; Ludbrook, 1955: 46; Ludbrook, 1967: 66, pl. 1, fig. 2.

Distribution. St Vincent Basin. Blanche Point Formation, Dry Creek Sands. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Gippsland Basin: Wuk Wuk Marl. Bass Basin: Freestone Cove sandstone (type). *Age:* late Eocene–middle Miocene.

Superfamily Hemidonacoidea

Family Hemidonacidae

Hemidonax Mörch, 1871

***Hemidonax* sp. cf. *H. dixonii* (Tate, 1887)**

Hemidonax sp. cf. *dixonii* (Tate, 1887).—Ponder et al., 1981: 53, Fig. 8.

Distribution. Port Phillip Basin: Lower Maude Limestone. *Age:* late Oligocene.

***Hemidonax dixonii* (Tate, 1887)**

Donax dixonii Tate, 1887a: 168, pl. 16, fig. 15.—Harris, 1897: 377.

Hemidonax dixonii (Tate, 1887).—Ponder et al., 1981: 52, pl. 1, figs 15, 16.

Distribution. Otway Basin: Muddy Creek Formation (type), Grange Burn Formation, Werrikoo Limestone. *Age:* middle Miocene–late Pliocene.

***Hemidonax chapmani* (Gatliff and Gabriel, 1923)**

Hemidonax chapmani (Gatliff and Gabriel, 1923).—Ponder et al., 1981: 49, pl. 1, figs 10–14, Fig. 12.

Distribution. Perth Basin: Ascot Formation. Southern Australia (living). *Age:* late Pliocene–present.

Superfamily Glossoidea

Family Glossidae

Miocardiopsis Glibert, 1936

***Miocardiopsis* sp.**

Glossus (Miocardiopsis) sp. Darragh and Kendrick, 1980: 18.

Distribution. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Superfamily Mactroidea

Family Mactridae

Mactra Linnaeus, 1758

***Mactra axiniformis* Tate, 1887**

Mactra axiniformis Tate, 1887a: 170, pl. 17, figs 1a, b.—Harris, 1897: 379.

Distribution. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. *Age:* early Pliocene.

***Mactra hamiltonensis* Tate, 1887**

Mactra hamiltonensis Tate, 1887a: 171, pl. 17, figs 4a, b.—Harris, 1897: 380.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. *Age:* late Miocene–early Pliocene.

***Mactra australis* Lamarck, 1818**

Mactra australis Lamarck, 1818.—Ludbrook, 1978: 57, pl. 4, fig. 6.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age:* late Pliocene–present.

***Mactra rufescens* Lamarck, 1818**

Mactra rufescens Lamarck, 1818.—Ludbrook, 1978: 58, pl. 4, figs 11, 12.

Distribution. Eucla Basin: Roe Calcarenite. Southern and south eastern Australia (living). *Age:* late Pliocene–present.

***Mactra pura* Deshayes, 1853**

Mactra pura Deshayes, 1853.—Ludbrook, 1978: 58, pl. 4, figs 7, 8.

Distribution. Eucla Basin: Roe Calcarenite. Bass Basin: Memana Formation. Southern Australia (living). *Age:* late Pliocene–present.

Mactrotoma Dall, 1894

***Mactrotoma howchiniana* (Tate, 1887) comb. nov.**

Mactra howchiniana Tate, 1887a: 171, pl. 17, figs 3a, b.—Harris, 1897: 380.

Mactra (Electromactra)[sic] howchiniana (Tate, 1887).—Ludbrook, 1955: 76, pl. 4, fig. 8.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation, Sandringham Sandstone. *Age:* middle Miocene–late Miocene.

Spisula Gray, 1837

***Spisula trigonella* (Lamarck, 1818)**

Spisula (Notospisula) trigonella (Lamarck, 1818).—Ludbrook, 1978: 59, pl. 4, fig. 9.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (upper). Australia (living). *Age:* Pliocene–present.

Zenatiopsis Tate, 1880

***Zenatiopsis fragilis* Pritchard, 1896**

Zenatiopsis fragilis Pritchard, 1896: 139, pl. 4, figs 3, 4.—Gill and Darragh, 1963: 182, pl. 28, figs 1, 2, pl. 31, fig. 3.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). *Age:* early Miocene.

***Zenatiopsis angustata* Tate, 1880**

(Type species of genus OD)

Zenatiopsis angustata Tate, 1880: 129, pl. 5, figs 6a, b.—Tate, 1887a: 172; Ludbrook, 1955: 77; Gill and Darragh, 1963: 180, pl. 29, figs 1, 3, 4, pl. 31, figs 1, 2, 6, 10.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl (type). Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Gippsland Basin: Tambo River Formation. *Age:* middle Miocene–late Miocene.

***Zenatiopsis phorca* Gill and Darragh, 1963**

Zenatiopsis phorca Gill and Darragh, 1963: 183, pl. 28, figs 3, 4, pl. 29, figs 2, 5, 6, pl. 31, figs 4, 7, 8.

Distribution. Otway Basin: Goodwood Formation. Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. *late Miocene–early Pliocene.*

***Zenatiopsis ultima* Darragh and Kendrick, 1971**

Zenatiopsis sp. Gill and Darragh, 1963: 185.

Zenatiopsis ultima Darragh and Kendrick, 1971: 89, pl. 1, figs 1, 4–6.

Zenatia (*Zenatiopsis*) sp. Ludbrook, 1978: 62, pl. 4, fig. 10.

Distribution. Perth Basin: Ascot Formation. Eucla Basin: Roe Calcarenite. Otway Basin. Werriook Limestone. Bass Basin: Memana Formation (type). *Age:* late Pliocene–early Pleistocene.

Zenatina Gill and Darragh, 1963

***Zenatina victoriae* (Pritchard and Gatliff, 1903)**

(Type species of genus OD)

Zenatina victoriae (Pritchard and Gatliff, 1903).—Gill and Darragh, 1963: 186, pl. 30, figs 3–5, pl. 31, figs 5, 9.

Distribution. Otway Basin: Grange Burn Formation. Gippsland Basin: Jemmys Point Formation. Eastern Australia (living) *Age:* early Pliocene–present.

Family Mesodesmatidae

Atactodea Dall, 1895

***Atactodea cuneata* (Lamarck, 1818)**

Amesodesma cuneata (Lamarck, 1818).—Ludbrook, 1983: 42, Figs 2h, i; Ludbrook, 1984: 244, Figs 58i, j.

Distribution. St Vincent Basin: Point Ellen Formation. Southern Australia (living). *Age:* late Pliocene–present.

***Atactodea erycinaea* (Lamarck, 1818)**

Distribution. Bass Basin: Cameron Inlet Formation. Southeastern Australia (living).

Age. Late Pliocene–present.

Paphies Lesson, 1831

***Paphies angusta* (Reeve, 1854)**

Amesodesma angusta (Reeve, 1854).—Ludbrook, 1983: 41, Figs 2j, k; Ludbrook, 1984: 244, Figs 58g, h.

Distribution. St Vincent Basin: Point Ellen Formation. Southern Australia (living). *Age:* late Pliocene–present.

Anapella Dall, 1895

***Anapella variabilis* (Tate, 1887)**

Anapa variabilis Tate, 1887a: 172, pl. 17, figs 5a, b.

Anapella variabilis (Tate, 1887).—Ludbrook, 1955: 76; Ludbrook, 1959b: 230, pl. 4, figs 5, 6; Ludbrook, 1978: 64, pl. 3, fig. 13.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (upper), Hallett Cove Sandstone (type). *Age:* late Pliocene.

***Anapella cycladea* (Lamarck, 1818)**

Anapella cycladea (Lamarck, 1818).—Ludbrook, 1978: 63, pl. 3, figs 11, 12.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (upper). *Age:* late Pliocene–present.

Superfamily Veneroidea

Family Neoleptonidae

Neolepton Monterosato, 1875

***Neolepton planiliratum* (Gatliff and Gabriel, 1911)**

Neolepton novacambrium Hedley, 1915.—Chapman and Crespin, 1928: 103, pl. 5, figs 22a, b.

Distribution. Port Phillip Basin: Gellibrand Formation. Southern Australia (living). *Age:* middle Miocene–present.

Family Veneridae

Dosina Gray, 1835

***Dosina multilamellata* (Tate, 1887)**

Chione multilamellata Tate, 1887a: 154, pl. 15, figs 6a, b.

Chione multitaeniata Tate in Tate and Dennant, 1896: 129 footnote, invalid replacement name.

Dosina (*Dosina*) *multitaeniata* (Tate).—Ludbrook, 1973: pl. 24, figs 18, 19.

Dosina (*Dosina*) *multilamellata* (Tate, 1887).—Darragh and Kendrick, 1980: 19; Darragh and Kendrick, 2008: 227, Fig. 1.16.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone. *Age:* late Eocene–early Miocene.

***Dosina occidentalis* Ludbrook, 1978**

Dosina occidentalis Ludbrook, 1978: 69, pl. 6, figs 7–10.

Distribution. Eucla Basin: Roe Calcarenite (type). *Age:* late Pliocene.

Marama (*Hina*) Marwick, 1927

***Marama* (*Hina*) *cainozoica* (Tenison Woods, 1877)**

Venus (*Chione*) *cainozoica* Tenison Woods, 1877: 113.

Chione cainozoica (Tenison Woods, 1877).—Tate, 1887a: 156, pl. 16, figs 3a, b; Johnston, 1888: pl. 32, figs 8, 8a, 11, 11a; Harris, 1897: 373.

Dosina (*Hina*) *cainozoica* (Tenison Woods, 1877).—Ludbrook, 1955: 66, pl. 5, fig. 5.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl. Otway Basin: Muddy Creek Formation, Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Bass Basin: Freestone Cove Sandstone (type). *Age:* early–middle Miocene.

Periglypta Jukes-Brown, 1914

***Periglypta weegeeree* Darragh and Kendrick, 2010**

Periglypta weegeeree Darragh and Kendrick, 2010: 31, Figs 2K, M, N, 3F, G.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone (type). *Age:* late Eocene.

Proxichione Iredale, 1929

***Proxichione etheridgei* (Pritchard, 1903)**

Chione etheridgei Pritchard, 1903a: 99, pl. 12, fig. 1.

Proxichione etheridgei (Pritchard, 1903).—Darragh, 1965c: 167, pl. 21, fig. 3, pl. 22, fig. 13, pl. 24, figs 26–28.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

***Proxichione hormophora* (Tate, 1885)**

Chione (Timoclea) hormophora Tate, 1885b: 230.

Chione hormophora Tate.—Tate, 1887a: 155, pl. 15, figs 1a, b.

Proxichione hormophora (Tate, 1885).—Darragh, 1965c: 168, pl. 21, fig. 2, pl. 22, figs 11, 12, pl. 23, figs 16, 17.

Distribution. Port Phillip Basin: Puebla Formation. Gippsland Basin: Wuk Wuk Marl. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone.

***Proxichione dimorphophylla* (Tate, 1885)**

Chione (Timoclea) dimorphophylla Tate, 1885b: 230.

Chione dimorphophylla Tate, 1885: 1887a: 155, pl. 15, figs 3a, b; Harris, 1897: 373 (in part).

Proxichione dimorphophylla (Tate, 1885).—Darragh, 1965c: 169, pl. 21, fig. 1, pl. 22, figs 8–10; Ludbrook, 1973: pl. 26, fig. 64.

Distribution. St Vincent Basin: Melton Limestone. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Proxichione subtilicostata* Darragh, 1965**

Proxichione subtilicostata Darragh, 1965c: 169, pl. 21, figs 4–7.—Darragh, 2010: Fig. 4A.

Distribution. Otway Basin. Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

***Proxichione moondarae* Darragh, 1965**

Antigona (Proxichione) cognata (Pritchard, 1903).—Crespin, 1950: 154, pl. 14, fig. 5.

Chione dimorphophylla Tate, 1885.—Johnston, 1888: pl. 32, fig. 4?

Proxichione moondarae Darragh, 1965c: 170, pl. 23, figs 18–21.—Ludbrook, 1969b: fig. 96.10; Darragh, 2010: 376, Figs 4C, E.

Distribution. Murray Basin: Bookpurnong Formation. Otway Basin: Gellibrand Formation. Port Phillip Basin: Gellibrand Formation. Sandringham Sandstone. Gippsland Basin. Tambo

River Formation (type), Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. *Age:* middle Miocene–late Pliocene.

***Proxichione cognata* (Pritchard, 1903)**

Chione cognata Pritchard, 1903a: 101, pl. 12, fig. 5.

Antigona (Antigona) cognata (Pritchard, 1903).—Ludbrook, 1955: 66.

Proxichione cognata (Pritchard, 1903).—Darragh, 1965c: 171, pl. 22, figs 14, 15, pl. 24, figs 24, 25; Darragh, 2010: 376, Figs 4B, D.

Proxichione sp. cf. *P. cognata* (Pritchard, 1903).—Ludbrook, 1978: 70, pl. 8, figs 1, 3, 5, 7.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). *Age:* middle Miocene?, early Pliocene–late Pliocene.

Gafrarium Röding, 1798

***Gafrarium perornatum* N. H. Woods, 1931**

Gafrarium perornatum N. H. Woods, 1931: 148, pl. 7, figs 7, 8.—Ludbrook, 1955: 67, pl. 6, fig. 9; Ludbrook, 1983: 43, Fig. 20; Ludbrook, 1984: 246, Figs 581, m.

Distribution. St Vincent Basin: Dry Creek Sands (type), Point Ellen Formation. Otway Basin: Muddy Creek Formation. *Age:* middle Miocene, late Pliocene.

Sunetta Link, 1807

***Sunetta gibberula* (Tate, 1887)**

Meroe gibberula Tate, 1887a: 162, pl. 15, figs 4a, b.

Sunetta gibberula (Tate, 1887).—Harris, 1897: 372.

Sunetta (Sunemeroe) gibberula (Tate, 1887).—Ludbrook, 1973: 70, pl. 6, fig. 11.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene–late Pliocene.

Notocallista Iredale, 1924

***Notocallista (Notocallista) kingi* (Gray, 1827)**

Notocallista (Notocallista) kingi (Gray, 1827).—Ludbrook, 1973: 71, pl. 7, figs 1, 2.

Distribution. Eucla Basin: Roe Calcarenite. Southeastern Australia (living). *Age:* late Pliocene–present.

***Notocallista (Notocallista) disrupta* (G. B. Sowerby II, 1853)**

Distribution. Bass Basin: Memana Formation. Southeastern–eastern Australia (living). *Age:* early Pleistocene–present.

Notocallista (Fossacallista) Marwick, 1938

***Notocallista (Fossacallista) tatei* (Cossmann, 1920)**

Cytherea tenuis Tate, 1887a: 159, pl. 14, fig. 16 non Hall and Meek, 1856.

Meretrix tenuis (Tate, 1887).—Harris, 1897: 371.

Cytherea tatei Cossmann, 1920: 37 nom. nov. for *Cytherea tenuis* Tate, 1887 non Hall and Meek, 1856.

Notocallista (Fossacallista) exigua Marwick, 1938: 77, pl. 13, figs 10, 11.

Notocallista (Fossacallista) tatei (Cossmann, 1920).—Marwick, 1938: 77, pl. 14, figs 1–3; Ludbrook, 1973, pl. 24, fig. 13.

cf. *Fossacallista tatei* (Cossmann, 1920).—Darragh and Kendrick, 2008: 227, Fig. 1.7.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation., Glen Aire Clay. Port Phillip Basin: Jan Juc Formation. Age: late Eocene–late Oligocene.

***Notocallista (Fossacallista) singletoni* Marwick, 1938**

Notocallista (Fossacallista) singletoni Marwick, 1938: 78, pl. 14, figs 15, 16.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). Age: early Miocene.

***Notocallista (Fossacallista) eburnea* (Tate, 1887)**

Cytherea eburnea Tate, 1887a: 160, pl. 18, fig. 7.

Meretrix eburnea (Tate, 1887).—Harris, 1897: 371.

Notocallista (Fossacallista) eburnea (Tate, 1887).—Marwick, 1938: 76, pl. 13, figs 16–18.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Notocallista (Fossacallista) opima* Marwick, 1938**

Notocallista (Fossacallista) opima Marwick, 1938: 76, pl. 13, figs 13–15.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Notocallista (Fossacallista) ancisa* Marwick, 1938**

Notocallista (Fossacallista) ancisa Marwick, 1938: 77, pl. 14, figs 11, 14.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

Notocallista (Striacallista) Marwick, 1938

***Notocallista (Striacallista) cudmorei* Marwick, 1938**

Notocallista (Striacallista) cudmorei Marwick, 1938: 72, pl. 13, figs 1, 2.

Distribution. Bass Basin: Fossil Bluff Sandstone (type). Age: early Miocene.

***Notocallista (Striacallista) lutea* Marwick, 1938**

Notocallista (Striacallista) lutea Marwick, 1938: 72, pl. 13, figs 5, 6.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Notocallista (Striacallista) mollesta* Marwick, 1938**

Notocallista (Striacallista) mollesta Marwick, 1938: 73, pl. 13, figs 7–9.—Ludbrook, 1955: 65, pl. 5, fig. 2.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Notocallista (Striacallista) pestis* Marwick, 1938**

Notocallista (Striacallista) pestis Marwick, 1938: 73, pl. 13, figs 3, 4.—Ludbrook, 1955: 65, pl. 5, fig. 3; Ludbrook, 1978: 71, pl. 7, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite? St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene, late Pliocene?

***Notocallista (Striacallista) submultistriata* (Tate, 1887)**

Cytherea submultistriata Tate, 1887a: 160, pl. 18, figs 6, 8.

Meretrix submultistriata (Tate, 1887).—Harris, 1897: 370.

Notocallista (Striacallista) submultistriata Tate, 1887.—Marwick, 1938: 72, pl. 12, figs 9–11, 13.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation. Age: late Miocene–early Pliocene.

Dosinia Scopoli, 1777

***Dosinia grata* Deshayes, 1853**

Dosinia (Dosinia) grata Deshayes, 1853.—Ludbrook, 1978: 72, pl. 7, figs 5, 6, 8, 9.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Dosinobia Finlay and Marwick, 1937

***Dosinobia saxatilis* (Darragh, 1994)**

Dosinia (Dosinobia) saxatilis Darragh, 1994: 97, Figs 8P–V.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

Dosinia (Kereia) Marwick, 1927

***Dosinia (Kereia) imparistriata* Tate, 1887**

Dosinia imparistriata Tate, 1887a: 162, pl. 14, fig. 11.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Dosinia (Kereia) numerosissima* Darragh and Kendrick, 2010**

Dosinia (Kereia) numerosissima Darragh and Kendrick, 2010: 32, Figs 2E, G–I, 3A, B.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone (type). Age: late Eocene.

***Dosinia (Kereia) densilineata* Pritchard, 1896**

Dosinia densilineata Pritchard, 1896: 135, pl. 4, figs 5–7.

Distribution. Port Phillip Basin: Jan Juc Formation (type), Lower Maude Limestone. Bass Basin: Freestone Cove Sandstone. Age: late Oligocene–early Miocene.

***Dosinia (Kereia) johnstoni* Tate, 1887**

Dosinia johnstoni Tate, 1887a: 161, pl. 14, figs 9, 12a, b.

Dosinia (Kereia) johnstoni Tate, 1887.—Ludbrook, 1955: 64?

Distribution. St Vincent Basin: Dry Creek Sands? Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Sandringham Sandstone. Age: middle Miocene? late Miocene–early Pliocene.

Dosinia (Phacosoma) Jukes-Brown, 1912

***Dosinia (Phacosoma) edithburgensis* Ludbrook, 1959**

Dosinia (Phacosoma) edithburgensis Ludbrook, 1959b: 228, pl. 3, figs 4, 5.

Distribution. St Vincent Basin: Hallett Cove Sandstone (type). Age: late Pliocene.

Dosinia (Austrodosinia?) Dall, 1902

***Dosinia (Austrodosinia)* sp.**

Dosinia (Austrodosinia?) sp. B McNamara and Kendrick, 1996: 24, Figs 10B, C.

Distribution. Carnarvon Basin: Poivre Formation. Age: middle Miocene.

Katelsysia Römer, 1857

***Katelsysia corioensis* (Tate, 1887) comb. nov.**

Chione corioensis Tate, 1887a: 157, pl. 16, fig. 1.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Katelsysia multistrigosa* Chapman and Crespin, 1928**

Katelsysia multistrigosa Chapman and Crespin, 1928: 105, pl. 5, fig. 25.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Katelsysia praecursor* Ludbrook, 1978**

Katelsysia praecursor Ludbrook, 1978: 74, pl. 7, figs 11–16.

Distribution. Eucla Basin: Roe Calcarenite, Quaternary sand (type). Age: late Pliocene–Pleistocene.

***Katelsysia scalarina* (Lamarck, 1818)**

Katelsysia scalarina (Lamarck, 1818).—Ludbrook, 1978: 75, pl. 7, fig. 10; Ludbrook, 1983: 43, Fig. 2n; Ludbrook, 1984: 244, Fig. 58k.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Point Ellen Formation. Southern Australia (living). Age: late Pliocene–present.

***Katelsysia rhytiphora* (Lamy, 1935)**

Katelsysia rhytiphora (Lamy, 1935).—Ludbrook, 1978: 74, pl. 7, fig. 7.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Venerupis Lamarck, 1818

***Venerupis paupertina* Tate, 1887**

Venerupis paupertina Tate, 1887a: 162, pl. 14, fig. 15.

Distribution. Murray Basin: Norwest Bend Formation. Otway Basin: Grange Burn Formation (type). Age: early–late Pliocene.

***Venerupis galactites* (Lamarck, 1818)**

Venerupis galactites (Lamarck, 1818).—Ludbrook, 1978: 76, pl. 9, figs 3, 4.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). Age: late Pliocene–present.

Bassina Jukes-Brown, 1914

***Bassina paucirugata* (Tate, 1887)**

Cytherea paucirugata Tate, 1887b: 158, pl. 14, fig. 14.

Meretrix paucirugata (Tate, 1887).—Harris, 1897: 370.

Bassina (Bassina) paucirugata (Tate, 1887).—Fleming, 1962: 236, pl. 1, fig. 2.

Distribution. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. Age: early Pliocene.

***Bassina murrayana* (Tate, 1887) comb. nov.**

Cytherea murrayana Tate, 1887b: 159, pl. 14, fig. 18.

Distribution. Murray Basin: Norwest Bend Formation (type). Age: late Pliocene.

***Bassina pachyphylla* (Jonas, 1839)**

Bassina (Bassina) pachyphylla (Jonas, 1839).—Fleming, 1962: 236, pl. 1, fig. 1.

Distribution. Otway Basin: Whalers Bluff Formation. Southern and eastern Australia (living). Age: late Pliocene–present.

Circumphalus Mörch, 1853

***Circumphalus allporti* (Tenison Woods, 1876) comb. nov.**

Venus allporti Tenison Woods, 1876: 26, fig. 10.—Johnston, 1888: pl. 32, figs 2, 3.

Chione allporti (Tenison Woods, 1876).—Tate, 1887a: 154.

Bassina allporti (Tenison Woods, 1876).—Ludbrook, 1955: 69.

Bassina (Callanaitis) allporti (Tenison Woods, 1876).—Fleming, 1962: 236, pl. 1, fig. 13.

Distribution. Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene.

***Circumphalus shelfordensis* (Chapman and Crespin, 1928) comb. nov.**

Clausinella shelfordensis Chapman and Crespin, 1928: 105, pl. 6, fig. 27.

Distribution. Port Phillip Basin. Gellibrand Formation (type). Age: middle Miocene.

Placamen Iredale, 1925

***Placamen subroboratum* (Tate, 1887)**

Chione subroborata Tate, 1887a: 156, pl. 14, figs 17a, b.—Harris, 1897: 374; Marwick, 1924a: 322, pl. 6, fig. 8.

Placamen subroborata (Tate, 1887).—Ludbrook, 1955: 69, pl. 4, figs 2, 3.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Gippsland Basin: Jemmys Point Formation. Age: middle Miocene–early Pliocene.

***Placamen placidum* (Philippi, 1844)**

Placamen placidum (Philippi, 1844).—Ludbrook, 1978: 78, pl. 9, figs 5, 6.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Whalers Bluff Formation. Bass Basin: Memana Formation. Southeastern Australia (living). *Age*: late Pliocene–present.

Gomphina Mörch, 1853

***Gomphina undulosa* (Lamarck, 1818)**

Gomphina undulosa (Lamarck, 1818).—Ludbrook, 1978: 73, pl. 6, fig. 3.

Distribution. Eucla Basin: Roe Calcarenite. Southern Australia (living). *Age*: late Pliocene–present.

Tawera Marwick, 1927

***Tawera halli* (Pritchard, 1895) comb. nov.**

Chione halli Pritchard, 1895: 229, pl. 12, figs 10–12.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age*: late Oligocene.

***Tawera propinqua* (Tenison Woods, 1877) comb. nov.**

Chione propinqua Tenison Woods, 1877: 113.—Tate, 1887a: 157, pl. 14, figs 7, 8; Johnston, 1888: pl. 32, figs 12, 12a?; Pritchard, 1896: 135.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Tawera pernitida* (N. H. Woods, 1931)**

Antigona pernitida N. H. Woods, 1931: 148, pl. 8, figs 1, 2.

Tawera pernitida (N. H. Woods, 1931).—Ludbrook, 1955: 67, pl. 6 fig. 5.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Tawera incurvilamellata* Ludbrook, 1955**

Tawera incurvilamellata Ludbrook, 1955: 68, pl. 3, figs 18, 19.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Tawera gallinula* (Lamarck, 1818)**

Tawera gallinula (Lamarck, 1818).—Ludbrook, 1955: 68, pl. 3, fig. 20; Ludbrook, 1978: 79.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Southern Australia (living). *Age*: middle Miocene, late Pliocene–present.

***Tawera dictua* (Tate, 1887) comb. nov.**

Chione dictua Tate, 1887a: 158, pl. 16, fig. 2.—Harris, 1897: 373.

Distribution. Murray Basin: Norwest Bend Formation (type). *Age*: late Pliocene.

***Tawera lagopus* (Lamarck, 1818)**

Tawera lagopus (Lamarck, 1818).—Ludbrook, 1978: 79, pl. 9, figs 7, 8.

Distribution. Eucla Basin: Roe Calcarenite. Bass Basin: Memana Formation. Southern Australia (living). *Age*: late Pliocene–present.

Timoclea T. Brown, 1827

***Timoclea protomarica* (Cotton, 1936)**

Glycodonta protomarica Cotton, 1936: 504, figs 1a, b.

Timoclea (Veremolpa) protomarica (Cotton, 1936).—Ludbrook, 1955: 70; Ludbrook, 1973: pl. 28, figs 91, 92.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Timoclea kendricki* Ludbrook, 1978**

Timoclea (Veremolpa) kendricki Ludbrook, 1978: 80, pl. 9 figs 9–12, 15, 16.—Ludbrook, 1983: 43, Figs 2r, s; Ludbrook, 1984: 246, Figs 58p, q.

Distribution. Eucla Basin: Roe Calcarenite (type). St Vincent Basin: Point Ellen Formation. *Age*: late Pliocene.

Chioneryx Iredale, 1924

***Chioneryx dennanti* (Chapman and Crespin, 1928)**

Antigona dennanti Chapman and Crespin, 1928: 104, pl. 6, figs 26a, b, pl. 12, fig. 82.

Chioneryx dennanti (Chapman and Crespin, 1928).—Ludbrook, 1955: 70, pl. 4, fig. 19.

Distribution. St Vincent Basin: Dry Creek Sands. Port Phillip Basin: Sandringham Sandstone. Gippsland Basin: Jemmys Point Formation (type). *Age*: middle Miocene–early Pliocene.

Callistina (Tikia) Marwick, 1926

***Callistina (Tikia)? scopulensis* Darragh, 1994**

Callistina (Tikia)? scopulensis Darragh, 1994: 99, Figs 8I–O.

Distribution. Otway Basin: Pebble Point Formation (type). *Age*: late Paleocene.

***Globivenus?* sp.**

Ventricolaria? sp. McNamara and Kendrick, 1996: 23, Fig. 10A.

Distribution. Carnarvon Basin: Poivre Formation. *Age*: middle Miocene.

Superfamily Cyrenoidea

Family Cyrenidae

Corbicula Mergel von Mühlfeld, 1811

***Corbicula?* sp.**

Corbicula? sp. Darragh, 1997: 105, Figs 12K, O.

Distribution. Otway Basin: Pebble Point Formation. *Age*: late Paleocene.

Order Adapedonta
Superfamily Solenoidea
Family Solenidae
Solen Mörch, 1853

***Solen sordidus* Tate, 1887**

Solen sordidus Tate, 1887a: 180, pl. 19, fig. 2.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Solen vaginoides* Lamarck, 1818**

Distribution. Bass Basin: Memana Formation. Eastern Australia (living). *Age:* early Pleistocene–present.

Family Pharidae
Capistrocardia Tate, 1887

***Capistrocardia fragilis* Tate, 1887**

(Type species of genus OD)

Capistrocardia fragilis Tate, 1887a: 180, pl. 19, figs 14a, b.—Harris, 1897: 383; Pacaud, 2019: 24, Figs 1, 3, 4.

Distribution. Murray Basin: Cadell Marl (type). Port Phillip Basin: Gellibrand Formation. *Age:* middle Miocene.

Orbicularia Deshayes, 1850

***Orbicularia?* sp.**

Orbicularia? sp. McNamara and Kendrick, 1996: 22, Figs 9E, F.

Distribution. Carnarvon Basin: Poivre Formation, Trealla Limestone. *Age:* middle Miocene.

Superfamily Hiatelloidea
Family Hiatellidae
Hiatella Bosc, 1801

***Hiatella australis* (Lamarck, 1818)**

Saxicava australis (Lamarck, 1818).—Tate, 1886b: 158, pl. 12, fig. 8.
Saxicava arctica (Linnaeus, 1767).—Tate, 1887a: 178.

Hiatella australis (Lamarck, 1818).—Ludbrook, 1955: 78, pl. 5, fig. 10; Ludbrook, 1978: 82, pl. 9, fig. 23.

Distribution: Eucla Basin: Roe Calcarenite. St Vincent Basin: Blanche Point Formation, Dry Creek Sands. Australia and New Zealand (living). late Eocene–present.

***Hiatella angasi* (Angas, 1865)**

Hiatella angasi (Angas, 1865).—Ludbrook, 1955: 79, pl. 5, figs 13, 14.

Distribution. St Vincent Basin: Dry Creek Sands. South Australia (living). middle Miocene–present.

Panopea Ménard de la Groye, 1807

***Panopea* sp.**

Panopea sp. Darragh, 1994: 100, Figs 8W, X.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Panopea agnewi* (Tenison Woods, 1876)**

Lyonsia agnewi Tenison Woods, 1876: 25, fig. 13.

Panopaea agnewi (Tenison Woods, 1876).—Tate 1887a: 179; Johnston, 1888: pl. 29, fig. 3; Ludbrook, 1967: 66, pl. 1, fig. 6.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Panopea ralphi* (Finlay, 1926)**

Panopaea orbita Hutton, 1885.—Tate, 1887a: 179, pl. 18, fig. 3 non Hutton, 1885.

Panopea sp. Marwick, 1924a: 320, pl. 5, fig. 11.

Panope ralphi Finlay, 1926: 473.

Distribution. Murray Basin: Cadell Marl (type). *Age:* middle Miocene.

***Panopea kalimnensis* (Crespin, 1950)**

Panope kalimnensis Crespin, 1950: 155, pl. 17, figs 16, 17.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* early Pliocene.

Order Myida
Superfamily Myoidea
Family Corbulidae
Caryocorbula J. Gardner, 1926

***Caryocorbula* sp.**

Caryocorbula sp. Darragh, 1994: 100, Figs 8D, G, H.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Caryocorbula pixidata* (Tate, 1887)**

Corbula pixidata Tate, 1887a: 177, pl. 17, figs 12a, bHarris, 1897: 382.

Corbula (*Caryocorbula*) *pixidata* (Tate, 1887).—Darragh and Kendrick, 1980: 19, Figs 5D–H.

Caryocorbula pixidata (Tate, 1887).—Darragh and Kendrick, 2008: 228, Figs 1.9, 1.13, 1.17.

Distribution. Southern Carnarvon Basin: unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age:* late Eocene–early Oligocene.

***Caryocorbula adelaidensis* (Ludbrook, 1955) comb. nov.**

Corbula equivalvis N. H. Woods, 1931: 150, pl. 8, figs 8, 9 non Philippi, 1836.

Corbula adelaidensis Ludbrook, 1955: 78, pl. 6, fig. 11 nom. nov. for *Corbula equivalvis* N. H. Woods, 1931 non Philippi, 1836.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Corbula Brugière, 1797

***Corbula smithiana* Brazier, 1880**

Distribution. Otway Basin: Whalers Bluff Formation. Southern and eastern Australia (living). *Age:* late Pliocene–present.

Notocorbula Iredale, 1930***Notocorbula ephamilla* (Tate, 1887) comb. nov.**

Corbula ephamilla Tate, 1885b: 229.—Tate, 1887a: 176, pl. 17, figs 13a–c, 14; Harris, 1897: 382; Ludbrook, 1955: 77, pl. 4, figs 4–7; Ludbrook, 1961b: pl. 7, figs 10, 11.

Distribution. St Vincent Basin: Dry Creek Sands. Murray Basin: Cadell Marl (type), Bookpurnong Formation. Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. Sandringham Sandstone. Gippsland Basin: Tambo River Formation, Jemmys Point Formation. Bass Basin: Freestone Cove Sandstone. **Age:** middle Miocene–early Pliocene.

***Notocorbula* sp. cf. *N. iredalei* Cotton, 1930**

Corbula (*Notocorbula*) sp. cf. *C. (N.) iredalei* Cotton, 1930.—Ludbrook, 1978: 81, pl. 9, figs 13, 14.

Distribution. Eucla Basin: Roe Calcarenite. **Age:** late Pliocene.

Superfamily Pholadoidea
Family Pholadidae
Martesia G. B. Sowerby I, 1824

***Martesia elegantula* Tate, 1898**

Martesia elegantula Tate, 1898a: 409, pl. 20, figs 7a, b.

Distribution. Otway Basin. Grange Burn Formation (type). **Age:** early Pliocene.

Barnea Risso, 1826

***Barnea tiara* Tate, 1887**

Barnea tiara Tate, 1887a: 182, pl. 18, figs 1a–c.—Harris, 1897: 384.

Distribution. Otway Basin: Grange Burn Formation (type). **Age:** early Pliocene.

***Barnea australasiae* (G. B. Sowerby II, 1849)**

Pholas australasiae G. B. Sowerby II, 1849.—Ludbrook, 1978: 82.

Distribution. Eucla Basin: Roe Calcarenite. Australia (living). **Age:** late Pliocene–present.

Jouannetia Desmoulins, 1828

***Jouannetia cuneata* Tate, 1887**

Jouannetia cuneata Tate, 1887a: 183, pl. 17, fig. 2.

Distribution. St Vincent Basin: Blanche Point Formation (type). **Age:** late Eocene.

Family Teredinidae

Teredinid, genus and species undetermined

Darragh and Kendrick, 2010: 34, Figs 4A–D.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone. **Age:** late Eocene.

Teredo Linnaeus, 1758***Teredo* sp.**

Teredo sp. Tate, 1887a: 184, pl. 19, fig. 4.

Distribution. Otway Basin: Muddy Creek Formation. **Age:** middle Miocene.

Remarks. Pieces of fossil wood with teredinid burrows and sometimes containing shell material have been found in the Gellibrand Formation.

Megaorder Anomalodesmata
Order Pandorida
Superfamily Pandoroidea
Family Laternulidae
Laternula Röding, 1798

***Laternula dolabraeformis* (Tate, 1894) comb. nov.**

Anatina dolabraeformis Tate, 1894: 188, pl. 12, fig. 3.

Distribution. Port Phillip Basin: Gellibrand Formation (type). **Age:** early Miocene.

Superfamily Clavagelloidea
Family Clavagellidae
Stirpulina Stoliczka, 1870

***Stirpulina pallinupensis* Morton, 2006**

Stirpulina pallinupense Morton, 2006: 104, Figs 1–3.

Distribution. Eucla Basin: Pallinup Formation (type). **Age:** late Eocene.

Dianadema B. Morton, 2003

***Dianadema multangularis* (Tate, 1887)**

Aspergillum (Humphreyia) liratum Tate, 1887a: 184, pl. 19, fig. 11.

Clavagella (Clavagella) multangularis (Tate, 1887).—Smith, 1971: 137, pl. 10, figs 1–3.

Dianadema lirata (Tate, 1887).—Morton, 2006: 104.

Distribution. St Vincent Basin: Blanche Point Formation (type of *lirata*). Otway Basin: Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation. Southern and eastern Australia (living). **Age:** late Eocene–present.

Clavagella Blainville, 1817

***Clavagella majorina* B. J. Smith, 1971**

Clavagella (Clavagella) majorina B. J. Smith, 1971: 139, pl. 10, figs 6–8.

Distribution. Port Phillip Basin: Jan Juc Formation (type). **Age:** late Oligocene.

Family Penicillidae
Humphreyia Gray, 1858

***Humphreyia strangei* (Adams, 1852)**

Humphreyia strangei (Adams, 1852).—Ludbrook, 1955: 37; Smith, 1971: 145.

Humphreyia incerta (Chenu, 1842).—Ludbrook, 1955: 37 (Yates, 2011: 381, Fig. 10 regarded the material as Penicillidae gen. et sp. indet.).
Distribution. St Vincent Basin: Dry Creek Sands? Southeastern Australia (living). *Age*: middle Miocene? Present.

Brechites Guettard, 1770

***Brechites australis* (Chenu, 1843):**

Brechites (Brechites) australis (Chenu, 1843).—Smith, 1971: 148; Ludbrook, 1978: 83.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands. Western Australia to South Australia (living). *Age*: middle Miocene, late Pliocene–present.

Kendrickiana B. Morton, 2004

***Kendrickiana veitchi* (B. J. Smith, 1971)**

(Type species of the genus OD)

Brechites (Foegia) veitchi B. J. Smith, 1971: 154, pl. 13, fig. 27.—Ludbrook, 1978: 83, pl. 9, figs 24, 25.

Kendrickiana veitchi (B. J. Smith, 1971.—Yates, 2011: 382, Figs 11A, B.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Hallett Cove Sandstone. South Australia (living). *Age*: late Pliocene–present.

***Kendrickiana coquinacola* Yates, 2011**

Kendrickiana coquinacola Yates, 2011: 376, Figs 4, 5A–F, 6A–F, 7A–F, 8A, B.

Distribution. Murray Basin: Bryant Creek Formation (type). *Age*: middle Miocene.

Order Pholadomyida
Superfamily Pholadomyoidea
Family Pholadomyidae
Pholadomya G. B. Sowerby I, 1823

***Pholadomya australica* Tate, 1894**

Pholadomya australica Tate, 1894: 187, pl. 12, fig. 2, 2a.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age*: middle Miocene.

Order Thraciida
Superfamily Thracioidea
Family Cleidothaeridae
Cleidothaerus Stutchbury, 1830

***Cleidothaerus crassa* (Tate, 1885) comb. nov.**

Chamostrea crassa Tate, 1885c: 228.

Chamostrea albida Lamarck, 1819: Tate, 1887a: 149 (in part) .—Pritchard, 1896: 133.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Cleidothaerus adelaidensis* Cotton, 1947**

Cleidothaerus adelaidensis Cotton, 1947: 664, pl. 20, figs 23, 24.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age*: middle Miocene.

***Cleidothaerus albidus* (Lamarck, 1818)**

Chamostrea albidus (Lamarck, 1818).—Tate, 1887a: 149 (in part).

Distribution. Otway Basin: Grange Burn Formation. Gippsland Basin: Jemmys Point Formation. Western Australia, southern Australia, eastern Australia (living). *Age*: late Miocene–present.

Family Myochamidae

Myochama Stutchbury, 1830

***Myochama rugata* Tate, 1894**

Myochama rugata Tate, 1894: 190, pl. 12, figs 5, 5a.

Distribution. Otway Basin: Gellibrand Formation. Port Phillip Basin: Jan Juc Formation. *Age*: late Oligocene–middle Miocene.

***Myochama trapezia* Pritchard, 1895**

Myochama trapezia Pritchard, 1895: 227, pl. 12, figs 8, 9.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age*: early–middle Miocene.

***Myochama plana* Tate, 1894**

Myochama plana Tate, 1894: 190, pl. 12, fig. 4.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age*: early Pliocene.

***Myochama?* sp.**

?*Myochama* sp. Ludbrook, 1973, pl. 26, fig. 62.

Distribution. St Vincent Basin: Melton Limestone. *Age*: middle Miocene.

Myadora Gray, 1840

***Myadora lamellata* Tate, 1887**

Myadora lamellata Tate, 1887a: 175, pl. 17, figs 6a–c, 7.

Distribution. St Vincent Basin: Blanche Point Formation (type). Otway Basin: Browns Creek Formation, Glen Aire Clay. *Age*: late Eocene–early Oligocene.

***Myadora aequilateralis* Johnston, 1880**

Myadora aequilateralis Johnston, 1880: 40; Tate, 1887a: 175, pl. 17, fig. 8.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Myadora australis* Johnston, 1880**

Myadora australis Johnston, 1880: 40; Tate, 1887a: 174, pl. 17, figs 10a, b.

Myadora australis Johnston, 1880.—Harris, 1897: 390.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age*: early Miocene.

***Myadora tenuilirata* Tate, 1887**

Myadora tenuilirata Tate, 1887a: 174, pl. 17, figs 9a, b.
Myadora tenuilirata Tate, 1887.—Harris, 1897: 390.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Myadora alea* Cotton, 1947**

Myadora alea Cotton, 1947: 665, pl. 20, figs 20–22.—Ludbrook, 1955: 36.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

***Myadora gabrieli* Chapman and Crespin, 1928**

Myadora gabrieli Chapman and Crespin, 1928: 100, pl. 4, figs 18a–d.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: late Miocene.

***Myadora angustior* Tate, 1887**

Myadora angustior Tate, 1887a: 174, pl. 16, fig. 16.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Myadora corrugata* Tate, 1887**

Myadora corrugata Tate, 1887a: 175, pl. 17, figs 11a, b.
Myadora corrugata Tate.—Harris, 1897: 391; Ludbrook, 1955: 37, pl. 1, fig. 17.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Grange Burn Formation (type). Age: middle Miocene, early Pliocene.

***Myadora praelonga* Tate, 1887**

Myadora praelonga Tate, 1887a: 173, pl. 19, figs 12a–d.
Myadora praelonga Tate, 1887.—Harris, 1897: 391.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Myadora complexa* Iredale, 1924**

Myadora pervalida Cotton, 1931.—Ludbrook, 1978: 83, pl. 9, fig. 17.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Whalers Bluff Formation. Southern Australia (living). Age: late Pliocene–present.

***Myadora brevis* (G. B. Sowerby I, 1827)**

Distribution: Otway Basin: Whalers Bluff Formation. Bass Basin: Memana Formation. Victoria, Tasmania, eastern Australia (living). Age: late Pliocene–present.

Family Periplomatidae

Periploma Schuhmacher, 1817

***Periploma vivarirex* Stillwell, 2005**

Periploma vivarirex Stillwell, 2005: 337, Figs 2L–Q.

Distribution. Perth Basin: Kings Park Formation (type). Age: late Paleocene.

Family Thraciidae

Thracia Blainville, 1824

***Thracia perscabrosa* Tate, 1887**

Thracia perscabrosa Tate, 1887a: 172, pl. 15, fig. 5.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

Phragmorisma Tate, 1894

***Phragmorisma anatinaeformis* Tate, 1894**

Phragmorisma anatinaeformis Tate, 1894: 189, pl. 12, fig. 1, 1a.

Distribution. Port Phillip Basin: Jan Juc Formation. Bass Basin: Freestone Cove Sandstone. Age: late Oligocene–early Miocene.

Order Poromyida

Superfamily Cuspidarioidea

Family Cuspidariidae

Cuspidaria Nardo, 1840

***Cuspidaria obbata* Darragh, 1997**

Cuspidaria sp. Darragh, 1994: 101, Figs 8A–C, E, F.
Cuspidaria obbata Darragh, 1997: 105, Fig. 12G.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Cuspidaria adelaidensis* (Tate, 1887) comb. nov.**

Neaera adelaidensis Tate, 1887a: 178, pl. 19, fig. 8.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Cuspidaria tatei* Hedley, 1902**

Neaera (Rhinomya) latesulcata Tate, 1887a: 178, pl. 19, fig. 7 non Tenison Woods, 1878.

Cuspidaria tatei Hedley, 1902: 312 nom. nov. for *Neaera (Rhinomya) latesulcata* Tate, 1887 non Tenison Woods, 1878.

Distribution. St Vincent Basin: Blanche Point Formation (type). Age: late Eocene.

***Cuspidaria subrostrata* (Tate, 1887)**

Neaera subrostrata Tate, 1887a: 177, pl. 15, figs 2a, b.

Cuspidaria subrostrata (Tate, 1887).—Harris, 1897: 389; Ludbrook, 1955: 38.

Distribution. St Vincent Basin: Dry Creek Sands. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Cuspidaria vellicata* Chapman and Crespin, 1928**

Cuspidaria vellicata Chapman and Crespin, 1928: 101, pl. 5, fig. 20.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: late Miocene.

Superfamily Verticordioidea
Family Verticordiidae
Verticordia J. de C Sowerby, 1844

***Verticordia* sp.**

Verticordia sp. Darragh, 1994: 101, Fig. 6D.

Distribution. Otway Basin: Pebble Point Formation (type). Age: late Paleocene.

***Verticordia* sp. A**

Verticordia sp. Darragh and Kendrick, 1980: 19.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Verticordia* sp. B**

Verticordia (Verticordia) sp. B Darragh and Kendrick, 2000: 29, Fig. 3B.

Distribution. Eucla Basin: Pallinup Formation. Age: late Eocene.

***Verticordia rhomboidea* Tate, 1887**

Verticordia rhomboidea Tate, 1887a: 149, pl. 14, fig. 4.—Ludbrook, 1961b: pl. 7, figs 14, 15.

Distribution. Murray Basin: Cadell Marl (type). Age: middle Miocene.

***Verticordia pectinata* Tate, 1887**

Verticordia pectinata Tate, 1887a: 150, pl. 14, fig. 13.

Distribution. Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.

***Verticordia excavata* Pritchard, 1901**

Verticordia excavata Pritchard, 1901: 30.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

CLASS SCAPHOPODA
 Order Dentaliida
 Superfamily Dentalioidea
Family Dentaliidae
Dentalium Linnaeus, 1758

***Dentalium?* sp.**

Dentalium? sp. Stilwell, 2003: 268, Figs 6U, AA, DD.

Distribution. Otway Basin: Dilwyn Formation. Age: early Eocene.

***Dentalium aratum* Tate, 1887**

Dentalium aratum Tate, 1887b: 192, pl. 20, fig. 8.—Harris, 1897: 293.

Dentalium (Episiphon) aratum Tate, 1887.—Tate, 1899b: 265.

Dentalium (Dentalium) aratum Tate.—Ludbrook, 1959a: 141, pl. 1, fig. 3.

Distribution. Murray Basin: Cadell Marl (type). Otway Basin: Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation, Gellibrand Formation. Age: late Oligocene—middle Miocene.

***Dentalium semiaratum* Chapman and Crespin, 1928**

Dentalium semiaratum Chapman and Crespin, 1928: 105, pl. 6, fig. 28.

Distribution. Port Phillip Basin: Gellibrand Formation (type). Age: middle Miocene.

***Dentalium latesulcatum* Tate 1899**

Dentalium (Fissidentalium) latesulcatum Tate 1899b: 262, pl. 8, fig. 9.

Dentalium howchini Cotton and Ludbrook, 1938: 224, pl. 12, fig. 6.

Dentalium (Dentalium) latesulcatum Tate.—Ludbrook, 1956: 1, pl. 1, figs 10–14; Ludbrook, 1959a: 142, pl. 1, fig. 1; Ludbrook, 1978: 84, pl. 9, fig. 26.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Point Ellen Formation. Otway Basin: Grange Burn Formation (type). Age: middle Miocene—late Pliocene.

***Dentalium intercalatum* Gould, 1859**

Dentalium (Dentalium) bednalli Pilsbry and Sharp, 1898.—Ludbrook, 1978: 84, pl. 9, fig. 27.

Dentalium intercalatum Gould, 1859.—Lamprell and Healy, 1998: 59

Distribution. Eucla Basin: Roe Calcarenite. South Australia, New South Wales, northern Australia, China seas (living). Age: late Pliocene—present.

Antalis H. and A. Adams, 1854

***Antalis bifrons* (Tate, 1887)**

Dentalium (?) bifrons Tate, 1887b: 192, pl. 20, fig. 5.—Harris, 1897: 295.

Dentalium (Antalis) bifrons Tate.—Ludbrook, 1959a: 142, pl. 2, fig. 2.

Distribution. Otway Basin: Grange Burn Formation (type). Port Phillip Basin: Jan Juc Formation? Age: late Oligocene? Early Pliocene.

***Antalis sectiformis* (Tate, 1899)**

Dentalium (Graptacme) sectiforme Tate, 1899b: 262, pl. 8, figs 6, 6a.

Dentalium (Antalis) sectiforme Tate.—Ludbrook, 1959a: 143, pl. 2, fig. 5.

Distribution. Otway Basin: Grange Burn Formation (type). Age: early Pliocene.

***Antalis denotatis* (Ludbrook, 1956)**

Dentalium (Antalis) denotatum Ludbrook, 1956: 3, pl. 1, figs 7–9.

Distribution. St Vincent Basin: Dry Creek Sands (type). Age: middle Miocene.

Fissidentalium P. Fischer, 1885

***Fissidentalium gracilicostatum* (Singleton, 1943)**

Dentalium (Fissidentalium) gracilicostatum Singleton, 1943: 275, pl. 12, figs 6a, b, pl. 13, figs 9a, b.

Fissidentalium gracilicostatum (Singleton, 1943).—Darragh, 1997: 92, Figs 8D, E, G, H, J, K.

Fissidentalium sp. cf. *F. gracilicostatum* (Singleton, 1943).—Stilwell, 2003: 269, Figs 6Y, BB.

Distribution. Otway Basin: Pebble Point Formation (type), Dilwyn Formation. *Age:* late Paleocene–early Eocene.

***Fissidentalium mawsoni* (Ludbrook, 1956)**

Dentalium kicksii Nyst 1843.—Tenison Woods, 1876: 15, non Nyst, 1843.

Entalis mantelli (Zittel, 1865).—Tate, 1887a: 190; Harris, 1897: 293 (in part) non Zittel, 1865.

Dentalium (Fissidentalium) mantelli (Zittel, 1865).—Tate, 1899b: 261, non Zittel, 1865.

Dentalium (Fissidentalium) mawsoni Ludbrook, 1956: 2, pl. 1, figs 5, 6; Darragh and Kendrick, 2008: 228, Figs 3.1, 3.2.

Fissidentalium mawsoni (Ludbrook, 1956).—Darragh, 2017: 97, Figs 9.3, 9.22.

Distribution. Southern Carnarvon Basin: Unnamed sandstone. Eucla Basin: Pallinup Formation. St Vincent Basin: Blanche Point Formation. Dry Creek Sands. Murray Basin: Cadell Marl (type). Otway Basin: Browns Creek Formation. Glen Aire Clay. Jan Juc Formation. Puebla Formation. Gellibrand Formation. Muddy Creek Formation. Bass Basin: Freestone Cove Sandstone. *Age:* late Eocene–middle Miocene.

Family Laevidentaliidae

Laevidentalium Cossmann, 1888

***Laevidentalium pictile* Tate, 1899**

Dentalium (Laevidentalium) pictile Tate, 1899b: 263, pl. 8, fig. 8.

Dentalium (Laevidentalium) pictile Tate, 1899.—Ludbrook, 1959a: 146, pl. 2, fig. 4.

Distribution. Bass Basin: Freestone Cove Sandstone (type). *Age:* early Miocene.

***Laevidentalium subfissura* (Tate, 1887)**

Entalis subfissura Tate, 1887b: 191, pl. 20, figs 4a, b.

Dentalium subfissura (Tate, 1887).—Harris, 1897: 296.

Dentalium (Laevidentalium) subfissura (Tate, 1887).—Tate, 1899b: 263; Ludbrook, 1959a: 146, pl. 2, fig. 3.

Distribution. St Vincent Basin: Blanche Point Formation. Murray Basin: Cadell Marl (type). Otway Basin: Glen Aire Clay, Jan Juc Formation, Gellibrand Formation, Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation. *Age:* late Eocene–middle Miocene.

***Laevidentalium acriculum* (Tate, 1887)**

Entalis acriculum Tate, 1887b: 192, pl. 20, fig. 11.

Dentalium acriculum (Tate, 1887).—Harris, 1897: 296.

Dentalium (Fustiaria) acriculum (Tate, 1887).—Tate, 1899b: 264.

Dentalium (Laevidentalium) lacteolum Tate, 1899b: 264.

Dentalium (Laevidentalium) acriculum (Tate, 1887).—Ludbrook, 1959a: 144, pl. 1, fig. 2.

Distribution. Otway Basin: Muddy Creek Formation (type), Gellibrand Formation. *Age:* middle Miocene.

***Laevidentalium australe* (Sharp and Pilsbury, 1898)**

Entalis annulatum Tate, 1887b: 191, pl. 20, figs 6a, b, non Gmelin, 1788.

Dentalium australis Sharp and Pilsbury, 1898: 199, nom. nov. for *Entalis annulatum* Tate, 1887 non Gmelin, 1788.

Dentalium (Fustiaria) australe Sharp and Pilsbury, 1898.—Tate, 1899b: 264.

Dentalium (Laevidentalium) australe Sharp and Pilsbury, 1898.—Ludbrook, 1959a: 145, pl. 2, fig. 1.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Laevidentalium largicrescens* (Tate, 1899)**

Dentalium (Laevidentalium) largicrescens Tate, 1899b: 264, pl. 8, figs 10, 10a.—Ludbrook, 1959a: 145, pl. 1, fig. 4; Ludbrook, 1978: 85, pl. 9, fig. 28.

Laevidentalium largicrescens (Tate, 1899).—Lamprell and Healy, 1998: 115, Figs 121B, 122E, F, 124, 129A, B.

Distribution. Eucla Basin: Roe Calcarenite. Otway Basin: Grange Burn Formation. Port Phillip Basin: Sandringham Sandstone (type). Eastern Australia (living).

Age: late Miocene–present.

Family Omniglyptidae

Omniglypta Kuroda and Habe, 1953

***Omniglypta? tornatissima* (Tate, 1899) comb. nov.**

Dentalium (Episiphon) tornatissimum Tate, 1899b: 265, pl. 8, figs 7, 7a.

Dentalium (Fustiaria) tornatissimum Tate, 1899.—Ludbrook, 1959a: 143, pl. 2, figs 6, 7.

Distribution. Gippsland Basin: Jemmys Point Formation (type). *Age:* early Pliocene.

Order Gadilida

Superfamily Gadiloidea

Family Gadiliniidae

Gadilina Foresti, 1895

***Gadilina tatei* (Sharp and Pilsbury, 1898)**

Dentalium (?) triquetrum Tate, 1887b: 193, pl. 20, fig. 3, non Brocchi, 1814.

Dentalium tatei Sharp and Pilsbury, 1898: 218, nom. nov. for *Dentalium triquetrum* Tate, 1887 non Brocchi, 1814.

Dentalium (Gadilina) tatei Sharp and Pilsbury, 1898.—Tate, 1899b: 266; Ludbrook, 1959a: 144, pl. 1, fig. 5; Ludbrook, 1961b: pl. 8, fig. 10.

Distribution. St Vincent Basin: Blanche Point Formation (type). Murray Basin: Olney Formation. *Age:* late Eocene.

Compressidens Pilsbury and Sharp, 1897

***Compressidens laticornuata* Darragh, 1997**

Compressidens laticornuata Darragh, 1997: 94, Figs 8A–8C, 8F.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

Family Gadilidae
Gadila Gray, 1847

***Gadila laguncula* Darragh, 1997**

Gadila laguncula Darragh, 1997: 94, Figs 8I, L–P; Stilwell, 2003: 269, Figs 6V, Z, CC.

Distribution. Otway Basin: Pebble Point Formation (type), Dilwyn Formation. *Age:* late Paleocene–early Eocene.

***Gadila mucronata* (Tate, 1887)**

Cadulus mucronatus Tate, 1887b: 193, pl. 20, fig. 10.—Harris, 1897: 297.

Cadulus (Gadila) mucronatus Tate, 1887.—Ludbrook, 1959a: 147, pl. 1, fig. 8.

Distribution. Otway Basin: Muddy Creek Formation (type). *Age:* middle Miocene.

***Gadila infans* (Tate, 1899)**

Cadulus (Gadila) infans Tate, 1899b: 266, pl. 8, fig. 11.—Ludbrook, 1959a: 148, pl. 1, fig. 6.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

***Gadila acuminata* (Tate, 1887)**

Cadulus acuminatus Tate, 1887b: 194.

Cadulus (Gadila) acuminatus Tate, 1887.—Pilsbry and Sharp, 1898: 183, pl. 32, figs 47–49; Tate, 1899b: 266, pl. 8, fig. 12; Ludbrook, 1956: 5, pl. 1, fig. 2; Ludbrook, 1959a: 147, pl. 1, fig. 7; Ludbrook, 1978: 86, pl. 24, fig. 14.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands, Hallett Cove Sandstone (type). *Age:* middle Miocene–late Pliocene.

Siphonodentalium Sars, 1859

***Siphonodentalium adelaidense* Ludbrook, 1956**

Siphonodentalium (Pulsellum) adelaidense Ludbrook, 1956: 4, pl. 1, fig. 1.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* late Miocene.

Dischides Jeffreys, 1867

***Dischides yatalensis* (Ludbrook, 1956)**

Cadulus (Dischides) yatalensis Ludbrook, 1956: 4, pl. 1, figs 3, 4.—Ludbrook, 1978: 85, pl. 24, fig. 13.

Distribution. Eucla Basin: Roe Calcarenite. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene–late Pliocene.

CLASS CEPHALOPODA
Subclass Nautiloidea
Order Nautilida

Nautilida are pelagic animals and often have a wide distribution. Their dead chambered shells can drift far from the habitat of the living animal. In the past palaeontologists have rarely taken this

into consideration, so there is a proliferation of names, most of which will prove to be synonyms when researchers evaluate material from many parts of the world. Australian taxa will be no exception to this, and it is unlikely that any of them will prove to be endemic, as has been shown already with some species of *Aturia*.

Superfamily Nautiloidea
Family Nautilidae
Nautilus Linnaeus, 1758

***Nautilus praepompilius* Shimansky, 1957**

Nautilus praepompilius Shimansky, 1957: 39.—Saunders et al., 1996: 609–610, Figs 1.1–1.4, 2.1, 3.2; Ward et al., 2016: 400, Figs 6, 7.1.

Distribution. Otway Basin: Pebble Point Formation. *Age:* late Paleocene.

***Nautilus balcombense* Chapman, 1915**

Nautilus balcombensis Chapman, 1915a: 353, pl. 3, figs 3, 4, pl. 4, figs 5, 6, pl. 8, figs 18, 19.—Teichert and Glenister, 1952: 738.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Eutrephoceras Hyatt, 1894

***Eutrephoceras victorianum* (Teichert, 1943)**

Nautilus victorianus Teichert, 1943: 262, pl. 11, figs 2, 5–7.

Eutrephoceras victorianum (Teichert, 1943).—Teichert, 1947a: 42, figs 5–7; Darragh, 1997: 95, Figs 9A–C, E, I; Ward et al., 2016: 396, Fig. 5.

Distribution. Otway Basin: Pebble Point Formation (type). *Age:* late Paleocene.

***Eutrephoceras altifrons* (Chapman, 1915)**

Nautilus altifrons Chapman, 1915a: 356, pl. 5, figs 10–12, pl. 6, fig. 13.

Eutrephoceras altifrons (Chapman, 1915).—McGowran, 1959: 439, pl. 64, figs 3–5, pl. 65, fig. 8, pl. 66, figs 1, 2, Figs 6–9.

Distribution. Eucla Basin: Nullarbor Limestone. Murray Basin: Naracoorte Limestone, Mannum Formation, Morgan Limestone (type). *Age:* late Oligocene–middle Miocene.

***Eutrephoceras geelongensis* (Foord, 1891)**

Nautilus geelongensis Foord, 1891: 332, figs 69a–c.—Chapman, 1915a: 354, pl. 4, figs 7–9; Teichert, 1943: 263, Fig. 4.

Eutrephoceras geelongensis (Foord, 1891).—McGowran, 1959: 437, pl. 64, figs 1, 2, pl. 66, figs 3–4, Figs 2–5, 9.

Distribution. Eucla Basin: Nullarbor Limestone. Murray Basin: Mannum Formation, Morgan Limestone. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

***Eutrephoceras* sp.**

Nautiloid indet. Haig and Mory, 2003: 108, Figs 3S, T.

Eutrephoceras sp. Darragh and Kendrick, 2008: 220, Figs 1.14, 1.24–25.

Distribution. Southern Carnarvon Basin. Unnamed sandstone.
Age late Eocene.

***Eutrephoceras?* sp.**

Eutrephoceras? sp. Darragh, 2017: 98, Figs 9.10–11.

Distribution. Eucla Basin. Pallinup Formation. *Age:* late Eocene.

Family Hercoglossidae

Aturoidea Vredenburg, 1925

***Aturoidea distans* Teichert, 1943**

Aturoidea distans Teichert, 1943: 260, pl. 11, figs 1–4, Fig. 1.—Teichert, 1947a: 40, Figs 1–4; Darragh, 1997: 95, Figs 9D, F–H, 10A–C; Ward et al., 2016: 394–396, Figs 3, 4, 7.3.

Aturoidea brunnschweileri Glenister et al., 1956: 500, pl. 55, figs, 1, 2, 5, 6, pl. 56, figs 1, 2, Figs 6B, 7.

Distribution. Carnarvon Basin: Boongarooda Greensand?, Jubilee Calcarenite, Giralia Calcarenite. Pebble Point Formation (type). *Age:* late Paleocene–middle Eocene.

Cimomia Conrad, 1866

***Cimomia felix* (Chapman, 1915)**

Nautilus felix Chapman, 1915a: 357, pl. 6, fig. 14, pl. 7, fig. 15.

Cimomia felix (Chapman, 1915).—McGowran, 1959: 443, pl. 65, figs 1–7, Fig. 10.

Distribution. St Vincent Basin: Tortachilla Limestone (type). Otway Basin: Browns Creek Formation. *Age:* late Eocene.

***Cimomia yorkensis* McGowran, 1959**

Cimomia yorkensis McGowran, 1959: 445, pl. 66, figs 5–8, Fig. 11.

Distribution. St Vincent Basin: Blanche Point Formation (type). *Age:* late Eocene.

Deltoidonautilus Spath, 1927

***Deltoidonautilus prora* (Glenister, Miller and Furnish, 1956) comb. nov.**

(Type species of *Teichertia* Glenister, Miller and Furnish, 1956 OD)

Teichertia prora Glenister, Miller and Furnish, 1956: 497, pl. 54, figs 1–8, figs 3b, 4b, c.—Glenister and Glover, 1958: 84, figs 2a–d.

Distribution. Carnarvon Basin: Giralia Calcarenite (type), Jubilee Calcarenite. Eucla Basin: Pallinup Formation. *Age:* late Eocene.

Family Aturiidae

Aturia Bronn, 1838

***Aturia clarkei* Teichert, 1944**

Aturia aturi (Basterot, 1925).—Newton, 1919: 160, pls 5, 6.

Aturia cf. *A. ziczac* (Sowerby).—Miller and Crespin, 1939: 80, pl. 14, fig. 1, Figs 1, 2.

Aturia clarkei Teichert, 1944: 79, pl. 15, figs 1–4, pl. 16, figs 1, 2, Fig. 2.—Glaessner, 1955: 354, pl. 34, fig. 2, pl. 35, fig. 3, Figs 1–3; Darragh and Kendrick, 2008: 220, Figs 1.18–19. Darragh and Kendrick, 2010: 37, Figs 6A–J.

Aturia cf. *A. clarkei* Teichert, 1944.—Glenister et al., 1956: 502, pl. 55, figs 3, 4.

Deltoidonautilus bakeri Teichert, 1947b: 48, Figs 1–3.

Aturia sp. Teichert, 1947b: 50, Fig. 6.

Aturia clarkei attenuata Teichert and Cotton, 1949: 255, pl. 21.

Aturia sp. Haig and Mory, 2003: 108, Figs 3Q, R.

Distribution. Southern Carnarvon Basin: Merlinleigh Sandstone (type), Unnamed sandstone (Kalbarri). Eucla Basin: Pallinup Formation. St Vincent Basin: Tortachilla Limestone. Otway Basin: Clifton Formation (reworked). *Age:* late Eocene.

***Aturia stansburiensis* Glaessner, 1955**

Aturia stansburiensis Glaessner, 1955: 357, pl. 34, fig. 1a, b, fig. 4.

Distribution. St Vincent Basin: Port Willunga Formation (type). *Age:* late Eocene.

***Aturia cubaensis* (Lea, 1841)**

Nautilus ziczac Sowerby.—Woods, 1862: 83, Fig., non J. Sowerby, 1812.

Aturia ziczac australis McCoy, 1876: 21, pl. 24, figs 1, 2, 2a, 3, 3a, 4, 4a, 5.

Aturia aturi australis McCoy, 1876: Foord, 1891: 355, Fig. 71b.

Aturia australis McCoy, 1876.—Chapman, 1915a: 351, pl. 3, fig. 2; Chapman, 1921a: 12–16, Fig.; Teichert, 1944: 74, pl. 14, figs 1–4, pl. 16, fig. 3; Glaessner, 1955: 358, pl. 35, figs 1a, b, 2.

Aturia cubaensis (Lea, 1841).—Jung, 1966: 489, pl. 1, figs 2–7, pl. 2, figs 2–6; Beu, 1973: 298, pl. 32, figs 1–7.

Distribution. Murray Basin: Cadel Marl. Otway Basin: Naracoorte Limestone, Gellibrand Formation. Muddy Creek Formation. Port Phillip Basin: Jan Juc Formation. Gellibrand Formation. Bass Basin: Freestone Cove Sandstone, Cape Grim beds. Europe, India, Japan, North and South America, New Zealand. *Age:* late Oligocene–middle Miocene.

***Aturia coxi* Miller, 1947**

Aturia coxi Miller, 1947.—Beu, 1973: 303, pl. 33, figs 8–16.

Distribution. Otway Basin: Goodwood Formation. Port Phillip Basin: Sandringham Sandstone. Africa, Japan, New Zealand. *Age:* late Miocene.

Subclass Coleoidea

Order Spirulida

Superfamily Spiruloidea

Family Spirulirostridae

Spirulirostra d'Orbigny, 1842

***Spirulirostra curta* Tate, 1894**

Spirulirostra curta Tate, 1894: 170, pl. 10, figs 1, 1a, b.

Distribution. Port Phillip Basin: Jan Juc Formation (type). *Age:* late Oligocene.

Order Sepiida

Superfamily Sepioidea

Family Sepiidae

Notosephia Chapman, 1915

***Notosepia cliftonensis* Chapman, 1915**

(Type species of the genus OD)

Notosepia cliftonensis Chapman, 1915a: 357, pl. 7, figs 16, 17, pl. 8, figs 20–22; Košťák et al., 2017: 161, Figs 4a–q.**Distribution.** Otway Basin: Muddy Creek Formation (type). Port Phillip Basin: Gellibrand Formation. Age: middle Miocene.*Sepia* Linnaeus, 1758***Sepia* sp.***Sepia* sp. Košťák et al., 2017: 164, Figs 5–8.**Distribution.** Otway Basin: Gambier Limestone. Age: middle Miocene.***Sepia* sp.***Sepia* sp. McNamara and Kendrick, 1994: 9, Fig. 6.**Distribution.** Carnarvon Basin: Poivre Formation. Age: middle Miocene.

CLASS POLYPLACOPHORA

All species of Australian Tertiary chitons are based on isolated valves. Many of these valves are fragmentary and worn and several species are based on single poorly preserved specimens, particularly those described by Ashby and Cotton in 1939. In that paper all the illustrations are drawings and, if of fragmentary specimens, of an idealised complete valve with a line on the drawing showing the actual outline of the fragment.

Order Lepidopleurida
Superfamily Lepidochitonoidea
Family **Leptochitonidae**
Leptochiton Gray, 1847

Leptochiton badioides* (Ashby and Cotton, 1939)Lepidopleurus badioides* Ashby and Cotton, 1939: 222, pl. 19, fig. 4, pl. 21, fig. 47.*Terenochiton badioides* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 576, Fig. 583; Cotton, 1964: 120, Fig. 133.*Leptochiton badioides* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 7.**Distribution.** Otway Basin: Muddy Creek Formation (type), Grange Burn Formation (reworked?). Age: middle Miocene, early Pliocene?***Leptochiton diversigranonus* (Ashby and Cotton, 1939)***Lepidopleurus diversigranonus* Ashby and Cotton, 1939: 227, pl. 19, figs 1, 9.*Terenochiton diversigranonus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 576, Fig. 583; Cotton, 1964: 120, Fig. 133.*Leptochiton diversigranonus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.**Distribution.** Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.***Leptochiton magnogranifer* (Ashby, 1925)***Lepidopleurus magnogranifer* Ashby, 1925: 171, pl. 18, fig. 1.—Ashby and Cotton, 1939: 224, pl. 19, fig. 3.*Lepidopleurus relatus* Ashby and Cotton, 1939: 224, pl. 19, fig. 12. *Terenochiton magnogranifer* (Ashby, 1925).—Cotton and Godfrey, 1940: 576, Fig. 583; Cotton, 1964: 120, Fig. 133.*Terenochiton relatus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 576, Fig. 584; Cotton, 1964: 120, Fig. 134.*Leptochiton magnogranifer* (Ashby, 1925).—Gowlett-Holmes and McHenry, 1988b: 8.**Distribution.** Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.**Remarks.** Cotton and Weeding, 1941: 444 suggested that *L. relatus* was probably an eroded fragment of *L. magnogranifer*. Gowlett-Holmes and McHenry (1988b) confirmed the synonymy after examining the type specimens.***Leptochiton nivarus* (Ashby and Cotton, 1939)***Lepidopleurus nivarus* Ashby and Cotton, 1939: 222, pl. 19, fig. 5. *Ischnochiton nivarus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 576, Fig. 584; Cotton, 1964: 120, Fig. 134.*Leptochiton nivarus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.**Distribution.** Otway Basin: Muddy Creek Formation (type). Age: middle Miocene.***Leptochiton babidus* (Ashby and Cotton, 1939)***Lepidopleurus babidus* Ashby and Cotton, 1939: 226, pl. 19, fig. 6. *Terenochiton babidus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 574, Fig. 577; Cotton, 1964: 120, Fig. 127.*Leptochiton babidus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 7.**Distribution.** Otway Basin: Grange Burn Formation (type). Age: early Pliocene.***Leptochiton pulcherrimus* (Ashby and Cotton, 1939)**(Type species of *Belchiton* Ashby and Cotton, 1939 OD)*Belchiton pulcherrimus* Ashby and Cotton, 1939: 221, pl. 19, fig. 10.—Cotton and Godfrey, 1940: 574, Fig. 577; Cotton, 1964: 120, Fig. 127.*Leptochiton pulcherrimus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 7.**Distribution.** Otway Basin: Grange Burn Formation (type). Age: early Pliocene.***Leptochiton sephus* (Ashby and Cotton, 1939)***Lepidopleurus sephus* Ashby and Cotton, 1939: 225, pl. 19, fig. 11.*Terenochiton sephus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 574, Fig. 577; Cotton, 1964: 120, Fig. 127.*Leptochiton sephus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.**Distribution.** Otway Basin: Grange Burn Formation (type). Age: early Pliocene.***Leptochiton sinervus* (Ashby and Cotton, 1939)***Lepidopleurus sinervus* Ashby and Cotton, 1939: 225, pl. 19, fig. 7.*Terenochiton sinervus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 574, Fig. 577; Cotton, 1964: 120, Fig. 127.*Leptochiton sinervus* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Leptochiton singus* (Ashby and Cotton, 1939)**

Lepidopleurus singus Ashby and Cotton, 1939: 226, pl. 19, fig. 8.
Terenochiton singus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 574, fig. F77; Cotton, 1964: 120, Fig. 127.

Leptochiton singus (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Leptochiton uxellus* (Ashby and Cotton, 1939)**

?*Lepidopleurus uxellus* Ashby and Cotton, 1939: 223, pl. 19, fig. 13.

Terenochiton uxellus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 574, Fig. 577; Cotton, 1964: 120, Fig. 127.

Leptochiton uxellus (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 8.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Pseudoischnochiton Ashby, 1929

***Pseudoischnochiton wynyardensis* Ashby, 1929**

(Type species of the genus OD)

Pseudoischnochiton wynyardensis Ashby, 1929b: 36, pl. 1, figs 1a, b.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

Family Protochitonidae

Protochiton Ashby, 1925

***Protochiton granulosus* (Ashby and Torr, 1901)**

(Type species of the genus OD)

Acanthochites (*Notoplax*) *granulosus* Ashby and Torr, 1901: 139, pl. 4, fig. 9.

Ischnochiton (*Ischnoplax*) *granulosus* (Ashby and Torr, 1901).—Chapman, 1908: 218, pl. 18 [labelled 17], figs 5–7.

Protochiton granulosus (Ashby and Torr, 1901).—Ashby, 1925: 176, pl. 18, figs 2–4, 5a, b, Fig. 1; Ashby, 1939: 188; Cotton and Godfrey, 1940: 573, Fig. 584; Cotton, 1964: 126, Fig. 134; Gowlett-Holmes and McHenry, 1998a: 3, 8, 9.

Lepidopleurus pamphilius Ashby and Cotton, 1939: 222, pl. 19, fig. 2.

Distribution: Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Order Chitonida

Superfamily Chitonoidea

Family Ischnochitonidae

Ischnochiton Gray, 1847

***Ischnochiton ashbyi* Cotton and Godfrey, 1940**

Ischnochiton (*Heterozona*) *cariosus* Pilsbry, 1892.—Ashby, 1929a: 225, pl. 24, fig. 7 non Pilsbry, 1892.

Ischnochiton ashbyi Cotton and Godfrey, 1940: 570, Fig. 584.—Cotton and Weeding, 1941: 445; Cotton, 1964: 124, Fig. 138.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
Age: middle Miocene.

***Ischnochiton cossyrus* Ashby and Cotton, 1939**

Ischnochiton cossyrus Ashby and Cotton, 1939: 229, pl. 20, fig. 37.—Cotton and Godfrey, 1940: 571, Fig. 578; Cotton and Weeding, 1941: 440; Cotton, 1964: 125, Fig. 128; Gowlett-Holmes and McHenry, 1998a: 6.

Ischnochiton durius Ashby and Cotton, 1939: 230, pl. 20, fig. 33.—Cotton and Godfrey, 1940: 571, Fig. 578; Cotton and Weeding, 1941: 440; Cotton, 1964: 125, Fig. 128; Gowlett-Holmes and McHenry, 1998a: 7.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Ischnochiton neglectus* Ashby and Cotton, 1939**

Ischnochiton neglectus Ashby and Cotton, 1939: 231, pl. 20, fig. 34.—Cotton and Godfrey, 1940: 571, Fig. 578; Cotton and Weeding, 1941: 440; Cotton, 1964: 125, Fig. 128; Gowlett-Holmes and McHenry, 1998a: 7.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Ischnochiton numantius* Ashby and Cotton, 1939**

Ischnochiton numantius Ashby and Cotton, 1939: 229, pl. 19, fig. 16.—Cotton and Godfrey, 1940: 571, Fig. 578; Cotton, 1964: 125, Fig. 128; Gowlett-Holmes and McHenry, 1998a: 7.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Ischnochiton vinazus* Ashby and Cotton, 1939**

Ischnochiton vinazus Ashby and Cotton, 1939: 228, pl. 20, fig. 36.—Cotton and Godfrey, 1940: 571, fig. F78; Cotton and Weeding, 1941: 440; Cotton, 1964: 125, Fig. 128; Gowlett-Holmes and McHenry, 1998a: 7.

Ischnochiton tisorus Ashby and Cotton, 1939: 228, pl. 19, fig. 15.—Cotton and Godfrey, 1940: 571, Fig. 578; Cotton, 1964: 125, Fig. 128.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Ischnochiton varenae* Cotton and Godfrey, 1940**

Ischnochiton tisorus Ashby and Cotton, 1939, pl. 20, fig. 35.

Ischnochiton varenae Cotton and Godfrey, 1940: 570, fig. 579; Cotton and Weeding, 1941: 440; Cotton, 1964: 123, fig. 129; Gowlett-Holmes and McHenry, 1998a: 7.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Family Callistoplacidae

Callistochiton Dall, 1879

***Callistochiton greedi* Ashby and Cotton, 1939**

Callistochiton greedi Ashby and Cotton, 1939: 232, pl. 21, fig. 43.

Callistelasma greedi (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 571, Fig. 579; Cotton and Weeding, 1941: 441; Cotton, 1964: 125, Fig. 129.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Remarks. Ashby and Cotton (1939) cite pl. 21, fig. 41 in their description, but the explanation of plate 21 gives fig. 43 as the holotype of this species and fig. 41 as “hypotype” (i.e. paratype) of *C. inexpectus*.

***Callistochiton reticulatus* Ashby and Cotton, 1939**

Callistochiton reticulatus Ashby and Cotton, 1939: 233, pl. 21, figs 44, 45.

Callistelasma reticulata (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: Fig. 579; Cotton and Weeding, 1941: 441; Cotton, 1964: Fig. 129.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Callistochiton inexpectatus* Ashby and Cotton, 1939**

Callistochiton meridionalis Ashby, 1919: Ashby, 1925: 187, pl. 19, fig. 19 non Ashby, 1919.

Callistochiton inexpectatus Ashby and Cotton, 1939: 233, pl. 21, figs 41, 42.

Callistelasma inexpectata (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: Fig. 579; Cotton and Weeding, 1941: 440; Cotton, 1964: Fig. 129.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Family Loricidae

Lorica H. and A. Adams, 1852

***Lorica atkinsoni* Ashby, 1925**

(Type species of *Protolorica* Ashby, 1925 OD)

Protolorica atkinsoni Ashby, 1925: 193, pl. 20, figs 29a, b.—Cotton and Godfrey, 1940: 573, Fig. 586; Cotton and Weeding, 1941: 446; Cotton, 1964: 127, Fig. 136.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Lorica cudmorei* Ashby, 1925**

Lorica cudmorei Ashby, 1925: 192, pl. 20, figs 27a–c, 28.—Ashby, 1929a: 221.

Aulacochiton cudmorei (Ashby, 1925).—Cotton and Godfrey, 1940: 574, Fig. 586; Cotton and Weeding, 1941: 446; Cotton, 1964: 127, Fig. 136.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

Remarks. Cotton and Weeding (1941) wrote that *Protolorica atkinsoni* was probably identical to this species, in which case *L. cudmorei* Ashby has priority.

***Lorica compressa* Ashby and Torr, 1901**

Lorica compressa Ashby and Torr, 1901: 136, pl. 4, fig. 6.—Ashby, 1925: 190, pl. 19, figs 22–24; Ashby, 1929a: 220; Gowlett-Holmes and McHenry, 1988b: 9.

Lorica affinis Ashby and Torr, 1901: 137, pl. 4, fig. 7.—Gowlett-Holmes and McHenry, 1988b: 9.

Lorica duniana Hull, 1910: 654, pl. 17, fig. 1.

Lorica compressa var. *affinis* (Ashby and Torr, 1901).—Ashby, 1925: 191, pl. 20, figs 25, 26; Ashby, 1929a: 220.

Aulacochiton compressa (Ashby and Torr, 1901).—Cotton and Godfrey, 1940: 574, Fig. 587; Cotton, 1964: 127, Fig. 137.

Aulacochiton erma Cotton and Godfrey, 1940: 570, Fig. 588.—Cotton, 1964: 124, Fig. 138; Gowlett-Holmes and McHenry, 1988b: 9.

Distribution. Otway Basin: Muddy Creek Formation. Bass Basin: Freestone Cove Sandstone (type), Fossil Bluff Sandstone.
Age: early Miocene, middle Miocene.

Remarks. Gowlett-Holmes and McHenry (1988b) stated that the holotype of *Aulacochiton erma* Cotton and Godfrey was a very weathered specimen of *Lorica compressa*.

Loricella Pilsbry, 1893

***Loricella sculpta* Ashby, 1921**

(Type species of *Pseudoloricella* Ashby, 1925 OD)

Loricella sculpta Ashby, 1921: 38, pl. 15, figs 1, 2.

Loricella (*Pseudoloricella*) *sculpta* Ashby, 1921.—Ashby, 1925: 199, pl. 22, figs 37a, b.

Pseudoloricella sculpta (Ashby, 1921).—Cotton and Godfrey, 1940: 574, Fig. 587; Cotton, 1964: 127, Fig. 137.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Loricella paucipustulosa* (Ashby and Torr, 1901)**

Chiton paucipustulosus Ashby and Torr, 1901: 141, pl. 4, fig. 2.

Loricella paucipustulosa (Ashby and Torr, 1901) .—Ashby, 1925: 196, pl. 21, figs 32, 33, pl. 22, figs 34–36; Ashby and Cotton, 1939: 236, pl. 21, figs 52, 54 [Grange Burn Formation, doubtful record?]; Cotton and Godfrey, 1940: 574, fig. 582 [labelled *magnopustulosa*], Fig. 587; Cotton, 1964: 127, Figs 132 [labelled *magnopustulosa*], 137.

Loricella magnifica Hull, 1915: 856, pl. 94, fig. 1.—Ashby, 1925, 198, pl. 22, fig. 36.

Loricella octoradiata Hull, 1915: 856, pl. 94, fig. 2.—Ashby, 1925, 197, pl. 22, fig. 35.

Loricella atkinsoni Hull, 1915: 856, pl. 94, figs 3, 3a.—Ashby, 1925, 196, pl. 21, fig. 33, pl. 22, fig. 34.

Distribution. Otway Basin: Grange Burn Formation? Bass Basin: Freestone Cove Sandstone (type). Age: early Miocene, early Pliocene?

***Loricella gigantea* Ashby and Torr, 1901**

Loricella gigantea Ashby and Torr, 1901: 137, pl. 4, fig. 3.—Ashby, 1925: 194, pl. 21, figs 30, 31; Ashby, 1929a: 221, pl. 24, fig. 9; Cotton and Godfrey, 1940: 574, Fig. 587 [as *gigantae*]; Cotton, 1964: 127, Fig. 137 [as *gigantae*].

Loricella magnifica Hull, 1915: 856, pl. 94, fig. 1a.

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Loricella magnopustulosa* Ashby and Cotton, 1939**

Loricella magnopustulosa Ashby and Cotton, 1939: 235, pl. 21, figs 50, 53.—Cotton and Godfrey, 1940: 572, Fig. 581; Cotton, 1964: 125, Fig. 131.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Nomen dubium

Loricella concava Ashby and Cotton, 1939: 236, pl. 21, fig. 51.—Cotton and Godfrey, 1940: 572, fig. 582; Cotton and Weeding, 1941: 442; Cotton, 1964: 125, fig. 132.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Remarks. Cotton and Godfrey (1940) and Cotton and Weeding (1941) stated that the specimen was a minute juvenile valve with too few characteristics to be recognised again.

Superfamily Callochitonoidea
Family Callochitonidae
Callochiton Gray, 1847

***Callochiton sulci* Ashby, 1939**

(Type species of *Ocellochiton* Ashby, 1939 OD)

Callochiton (Ocellochiton) sulci Ashby, 1939: 187, pl. 3, figs 1–3.—Cotton and Godfrey, 1940: 573, Fig. 586; Cotton and Weeding, 1941: 446; Cotton, 1964: 127, Fig. 136.

Lorica oculea Ashby and Cotton, 1939: 237, pl. 21, fig. 48.

Lorica varena Ashby and Cotton, 1939: 238, pl. 21, fig. 49.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* middle Miocene.

Remarks. Cotton and Weeding (1941) stated that *L. oculea* Ashby and Cotton and *L. varena* Ashby and Cotton were worn median valves of this species and thus synonyms of this species. Gowlett-Holmes and McHenry (1988b: 9) accepted this synonymy.

Incertae sedis

Callochiton macdonaldi Ashby and Cotton, 1939: 227, pl. 21, fig. 46.

Paricoplax macdonaldi (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 572, fig. 582; Cotton, 1964: 125, fig. 132.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Remarks. Cotton and Godfrey (1940) and Cotton and Weeding (1941: 442) stated that the unique specimen looked like a badly eroded juvenile valve of *Paricoplax crocina* Reeve and placed the species in that genus. Gowlett-Holmes and McHenry (1988b: 6) retained the species in *Callochiton*.

Family Chitonidae
Oochiton Ashby, 1929

***Oochiton halli* Ashby, 1929**

(Type species of the genus OD)

Oochiton halli Ashby, 1929a: 222, pl. 24, figs 1a, b, 2, 3a, b, 8a, b.—Ashby and Cotton, 1939: 239, pl. 21, fig. 55; Cotton and Godfrey, 1940: 574, Fig. 588; Cotton, 1964: 127, Fig. 138.

Distribution. Otway Basin: Muddy Creek Formation. Port Phillip Basin: Gellibrand Formation (type). *Age:* early–middle Miocene.

Remarks. Ashby and Cotton (1939) claimed that the holotype of this species (from Balcombe Bay, Mornington) had been destroyed in a fire at Ashby's house in 1934 and erected a neotype from another locality, Clifton Bank, Muddy Creek near

Hamilton, Victoria (Muddy Creek Formation). This statement was accepted by Gowlett-Homes and McHenry (1988b: 10). The claim is false. The holotype (NMV P13496, pl. 24, figs 1a, b) labelled as such by Ashby is still present in the Palaeontology type collection of Museums Victoria. Apparently it was one of the paratypes (pl. 24, fig. 8) held by Ashby that was destroyed.

Rhyssofax Thiele, 1893

***Rhyssofax fossicius* (Ashby and Torr, 1901)**

Chiton fossicius Ashby and Torr, 1901: 140, pl. 4, fig. 4.

Chiton (Rhyssofax) fossicius Ashby and Torr, 1901.—Ashby, 1925: 188, pl. 19, fig. 21.

Anthochiton fossicius (Ashby and Torr, 1901).—Cotton and Godfrey, 1940: 574, Fig. 588 [*fossicius*]; Cotton, 1964: 127, Fig. 138 [*fossicius*].

Distribution. Bass Basin: Freestone Cove Sandstone (type).
Age: early Miocene.

***Rhyssofax relatus* (Ashby and Cotton, 1936)**

Chiton (Anthochiton) tricostalis relata Ashby and Cotton, 1936: 509, fig. 1.—Ludbrook, 1956: 6.

Anthochiton tricostalis relatus (Ashby and Cotton, 1936).—Cotton and Godfrey, 1940: 572, Fig. 583; Cotton, 1964: 126, Fig. 133.

Chiton (Rhyssofax) tricostalis relatus Ashby and Cotton, 1936.—Gowlett-Holmes and McHenry, 1988b: 5.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Rhyssofax macdonaldensis* (Ashby and Cotton, 1939)**

Anthochiton macdonaldensis Ashby and Cotton, 1939: 234, pl. 21, fig. 39.—Cotton and Godfrey, 1940: 572, Fig. 582; Cotton, 1964: 126, Fig. 132.

Chiton (Rhyssofax) macdonaldensis (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 5.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Rhyssofax duodeni* (Ashby and Cotton, 1939)**

Anthochiton duodeni Ashby and Cotton, 1939: 235, pl. 20, fig. 38.—Cotton and Godfrey, 1940: 572, Fig. 582; Cotton, 1964: 126, Fig. 132.

Chiton (Rhyssofax) duodeni (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 5.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Rhyssofax octocostatus* (Ashby and Cotton, 1939)**

Anthochiton octocostatus Ashby and Cotton, 1939: 235, pl. 21, fig. 40.—Cotton and Godfrey, 1940: 572, Fig. 583; Cotton, 1964: 126, Fig. 133.

Chiton (Rhyssofax) octocostatus (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988a: 5.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Remarks. Cotton and Weeding (1940: 442) implied that *R. macdonaldensis*, *R. duodeni* and *R. octocostatus* could prove to be synonyms when further material became available, in which case *R. macdonaldensis* had page priority. The types of the latter two are incomplete.

Superfamily Cryptoplacoidea
Family Acanthochitonidae
Acanthochitona Gray, 1821

***Acanthochitona balcombensis* Ashby, 1939**

Acanthochiton balcombensis Ashby, 1939: 188, pl. 3, fig. 4.—Cotton and Godfrey, 1940: 573, Fig. 586; Cotton, 1964: 126, Fig. 136.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
 Age: middle Miocene.

***Acanthochitona casa* Ashby and Cotton, 1939**

Acanthochiton casus Ashby and Cotton, 1939: 214, pl. 20, fig. 30.—Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Acanthochitona chapmani* Ashby, 1925**

Acanthochiton chapmani Ashby, 1925: 182, pl. 18, fig. 9.—Cotton and Godfrey, 1940: 573, Fig. 586; Cotton, 1964: 126, Fig. 136.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Acanthochitona pilsbryoides* Ashby and Cotton, 1939**

Acanthochiton pilsbryoides Ashby and Cotton, 1939: 216, pl. 20, fig. 27.—Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Acanthochitona sabrata* Ashby and Cotton, 1939**

Acanthochiton sabratus Ashby and Cotton, 1939: 215, pl. 20, fig. 25.—Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Acanthochitona druna* Ashby and Cotton, 1939**

Acanthochiton drunus Ashby and Cotton, 1939: 214, pl. 20, fig. 29.—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. Otway Basin: Grange Burn Formation (type).
 Age: early Pliocene.

***Acanthochitona forsythensis* Ashby and Cotton, 1939**

Acanthochiton forsythensis Ashby and Cotton, 1939: 213, pl. 20, fig. 26.—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. Otway Basin: Grange Burn Formation (type).
 Age: early Pliocene.

***Acanthochitona singletoni* Cotton and Godfrey, 1940**

Afossochiton cudmorei Ashby, 1925.—Ashby and Cotton, 1939: 211, pl. 20, fig. 22 non Ashby, 1925.

Acanthochiton singletoni Cotton and Godfrey, 1940: 570, Fig. 588.—Cotton, 1964: 124, Fig. 138.

Distribution. Otway Basin: Grange Burn Formation (type).
 Age: early Pliocene.

***Acanthochitona trianguloides* Ashby and Cotton, 1939**

Acanthochiton trianguloides Ashby and Cotton, 1939: 216, pl. 20, fig. 28.—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. Otway Basin: Grange Burn Formation (type).
 Age: early Pliocene.

Nomen dubium

Acanthochiton forsythensis relatus Ashby and Cotton, 1939: 214.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

Remarks. According to Gowlett-Holmes and McHenry (1988b: 4) this specimen is missing. It has never been figured so it is impossible to determine what it was, thus is regarded as a nomen dubium.

Afossochiton Ashby, 1925

***Afossochiton cudmorei* Ashby, 1925**

(Type species of the genus OD)

Afossochiton cudmorei Ashby, 1925: 179, pl. 18, figs 6, 7.—Ashby and Cotton, 1939: 211, pl. 20, fig. 22; Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Afossochiton rostratus* (Ashby and Torr, 1901)**

Acanthochites rostratus Ashby and Torr, 1901: 140, pl. 4, fig. 5.

Afossochiton rostratus (Ashby and Torr, 1901).—Ashby, 1925: 181, pl. 18, fig. 8; Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Port Phillip Basin: Gellibrand Formation (type).
 Age: middle Miocene.

***Afossochiton dendus* Ashby and Cotton, 1939**

(Type species of *Telochiton* Ashby and Cotton, 1939 OD)

Afossochiton (Telochiton) dendus Ashby and Cotton, 1939: 211, pl. 20, fig. 24.

Telochiton dendus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
 Age: middle Miocene.

***Afossochiton iscus* Ashby and Cotton, 1939**

Afossochiton (Telochiton) iscus Ashby and Cotton, 1939: 212, pl. 19, fig. 20.

Telochiton iscus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 573, Fig. 585; Cotton, 1964: 126, Fig. 135.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

***Afossochiton magnicostatus* Ashby and Cotton, 1939**

Afossochiton (Telochiton) magnicostatus Ashby and Cotton, 1939: 212, pl. 20, fig. 23.

Telochiton magnicostatus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Afossochiton sulci* Ashby and Cotton, 1939**

Afossochiton sulci Ashby and Cotton, 1939: 210, pl. 20, fig. 21.—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Notoplax H. Adams, 1861

***Notoplax adelaidae* (Ashby and Cotton, 1936)**

(Type species of *Eoplax* Ashby and Cotton, 1936 OD)

Acanthochiton (Eoplax) adelaidae Ashby and Cotton, 1936: 510, fig. 2.

Acanthochiton (Eoplax) adelaidae Ashby and Cotton, 1936.—Ludbrook, 1956: 6.

Eoplax adelaidae (Ashby and Cotton, 1936).—Cotton and Godfrey, 1940: 572, Fig. 580; Cotton, 1964: 125, Fig. 130.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Notoplax adelaidae (Ashby and Cotton, 1936).—Gowlett-Holmes and McHenry, 1988b: 3.

Remarks. Gowlett-Holmes (1991: 80) synonymised *Eoplax* with *Notoplax* because of its reduced tegmentum, smooth, narrow jugum, pustulose sculpture of the lateropleural areas and very large insertion plates.

***Notoplax buicki* Gowlett-Holmes, 1992**

Notoplax buicki Gowlett-Holmes, 1992: 31, Figs 1A–E.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Incertae sedis

Notoplax (Notoplax) arenaria Gowlett-Holmes and McHenry, 1988a: 81, Figs 1A–D.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

Remarks. Gowlett-Holmes (1992: 33) stated that the generic position of this species is uncertain.

Bassethullia Pilsbry, 1928

***Bassethullia inexpecta* (Ashby and Cotton, 1939)**

(Type species of *Lirachiton* Ashby and Cotton, 1939 OD)

Acanthochiton (Lirachiton) inexpectus Ashby and Cotton, 1939: 215, pl. 20, fig. 31.

Molachiton naxus Ashby and Cotton, 1939, 220, pl. 20, fig. 32 (type species of *Molachiton* Ashby and Cotton, 1939 OD).

Lirachiton inexpectus (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 572, Fig. 581; Cotton, 1964: 125, Fig. 131.

Bassethullia inexpecta (Ashby and Cotton, 1939).—Gowlett-Holmes, 1990: 14, Figs 3A–D.

Distribution. Perth Basin: Ascot Formation. Otway Basin: Grange Burn Formation (type). *Age:* early–late Pliocene.

Remarks. Cotton and Godfrey (1940: 572) synonymised *Molachiton naxus* with *Lirachiton inexpectatus*. Subsequent authors accepted this synonymy. Gowlett-Holmes (1987: 109) synonymised *Lirachiton* with *Bassethullia* and stated that this species appeared to be closely related to *B. matthewsi* (Bednall and Pilsbry).

***Bassethullia matthewsi* (Bednall and Pilsbry, 1894)**

Bassethullia matthewsi (Bednall and Pilsbry, 1894).—Gowlett-Holmes, 1990: 16.

Distribution. Perth Basin: Jandakot Formation. Southern Australia (living). *Age:* early Pleistocene–present.

***Bassethullia propeporcina* Gowlett-Holmes, 1990**

Bassethullia propeporcina Gowlett-Holmes, 1990: 24, Figs 8A–F.

Distribution. Perth Basin: Ascot Formation, Jandakot Formation (type). *Age:* late Pliocene–early Pleistocene.

Family Cryptoplacidae

Cryptoplax de Blainville, 1818

***Cryptoplax ludbrookae* Ashby, 1940**

Cryptoplax ludbrookae Ashby, 1940: 266, Fig. .—Cotton and Weeding, 1941: 442; Ludbrook, 1956: 7.

Distribution. St Vincent Basin: Dry Creek Sands (type). *Age:* middle Miocene.

***Cryptoplax pritchardi* Hall, 1905**

Cryptoplax pritchardi Hall, 1905: 391, pl. 30, figs 1–6.—Ashby, 1925: 183, pl. 18, figs 11, 12, pl. 19, figs 13–16; Ashby and Cotton, 1939: 217, pl. 19, fig. 19; Cotton and Godfrey, 1940: Fig. 581; Cotton, 1964: Fig. 131.

Cryptoplax gatliffi Hall, 1905: 392, pl. 30 figs 7–9.—Ashby, 1925: 184, pl. 18, figs 10a, b.

Distribution. Otway Basin: Grange Burn Formation (type). *Age:* early Pliocene.

Remarks. Ashby and Cotton (1939) concluded that *C. gatliffi* was a synonym of *C. pritchardi* because all the sculpture had been worn off and that the lobe-shaped plate said to be present in the former and absent in the latter was in fact present in all valves. The type specimen of *C. gatliffi* was said to be Clifton Bank on Muddy Creek, thus from the Miocene Muddy Creek Formation, whereas the type specimen of *C. pritchardi* was from McDonalds Bank on Muddy Creek, thus from the Pliocene Grange Burn Formation further upstream, so the specimen could have been washed downstream. No other specimens seem to have been found in the Muddy Creek Formation, so Ashby and Cotton's opinion on the synonymy is accepted pending further specimens from the Muddy Creek Formation being found in situ.

***Cryptoplax sicus* Ashby and Cotton, 1939**

Cryptoplax sicus Ashby and Cotton, 1939: 219, pl. 19, fig. 17.—Cotton and Godfrey, 1940: Fig. 581; Cotton, 1964: Fig. 131; Gowlett-Holmes, 1989: 153.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

***Cryptoplax numicus* Ashby and Cotton, 1939**

Cryptoplax numicus Ashby and Cotton, 1939: 219, pl. 19, fig. 18.—Cotton and Godfrey, 1940: Fig. 581; Cotton, 1964: Fig. 131.

Distribution. Otway Basin: Grange Burn Formation (type).
Age: early Pliocene.

Remarks. Cotton and Weeding (1940: 441) stated that this species was probably a juvenile of *C. pritchardi*. Based on the figures in Ashby and Cotton (1939), it may be that both *C. sicus* and *C. numicus* are synonyms of the former.

Living species described as fossils

Plaxiphora concentrica Ashby and Torr, 1901: 138, pl. 4, fig. 8 and *Plaxiphora gellibrandi* Ashby and Torr, 1901: 139, pl. 4, fig. 1 are not fossils, but specimens of the living species *P. albida* (Blainville, 1825). See Ashby (1925: 185–187, pl. 19, fig. 18) and Gowlett-Homes and McHenry (1988b: 3, 9).

Incertae sedis

Lavenachiton Cotton and Godfrey, 1940

***Lavenachiton cliftonensis* (Ashby and Cotton, 1939)**

(Type species of the genus OD)

Ischnochiton (Radsia) cliftonensis Ashby and Cotton, 1939: 231, pl. 19, fig. 14.

Lavenachiton cliftonensis (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 569, Fig. 588; Cotton, 1964: 123, Fig. 138; Gowlett-Holmes and McHenry, 1988b: 6, 10.

Distribution. Otway Basin: Muddy Creek Formation (type).
Age: middle Miocene.

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**Index to A checklist of Australian marine Cenozoic Mollusca by Thomas A.
Darragh, 2024, *Memoirs of Museum Victoria* 83:37–206.**

Compiled by C. J. Goudey and T.A. Darragh

Checklist errata

- p. 41 left column. Heading *Collulina* Dall, 1882 should read *Cocculina* Dall, 1882
- p. 42 left column. Entry for *Bathymophila* Dall, 1881 should be on p. 47 under Family Solariellidae
- p. 50 left column. Insert sp. after heading *Guildfordia* (*Opella*?) and in same place line 2
- p. 57 left column. Heading *Colina fenestralis* Tate, 1894 should read *Colina fenestralis* Tate, 1894
- p. 60 left column. Heading *Coxellaria superspiralis*, line 2 *Cerithiella* (*Coxellaria*) should read *Cerithiella* (*Coxellaria*) *superspiralis*
- p. 60 left column. Delete duplicate entry for *Eocolina*. Correct entry is on p. 61.
- p. 61 left column. Heading *Viriola?* Sp. should read *Viriola?* sp.
- p. 63 right column. Headings Epitoniidae gen et sp. indet. insert stops after gen and in line 2 of the first heading.
- p. 67 left column. Heading *Margineulima?* Sp. should read *Margineulima?* sp.
- p. 77 left column. Heading *Umbilia* (*Palliocypraea*) *gastroplax* insert next line (Type species of the subgenus OD)
- p. 84 left column. Heading *Cymatiella* sp should read *Cymatiella* sp.
- p. 88 right column. Heading *Corallophila crassiplicata* insert next line (Type species of *Widningia* Ludbrook, 1941 OD)
- p. 94 left column. Heading *Admitrella* should read *Ademitrella*
- p. 107 right column. Heading *Notovoluta tabulata* line 2 *Voluta tabulate* should read *Voluta tabulata*
- p. 120 right column. Insert as heading *Terebra* Bruguière, 1789 above ***Terebra* sp.**
- p. 128 right column. Heading *Comitas clarae* line 4 *Comitas* (*Carinocomitas*) should read *Comitas* (*Carinacomitas*)
- p. 137 right column. Heading *Vovulella rostratata* should read *Volvulella rostrata* as should line 2.
- p. 150 left column. Heading **Family Limposidae** should read **Family Limopsidae**
- p. 163 left column. Heading *Neotrigonia acuticostata* line 12 delete cf
- p. 181 right column. Insert as heading *Globivenus* Coen, 1934 above ***Globivenus?* sp.**
- p. 184 right column. Heading *Cleidothaerus albidus* line 2 should read *albida* not *albidus*

Index of Families

- | | | |
|-----------------------|-----------------------|----------------------|
| Acanthochitonidae 194 | Cocculinidae 41 | Haliotidae 38 |
| Acteonidae 136 | Cochlespiridae 123 | Haminoeidae 139 |
| Addisoniidae 41 | Colloniidae 50 | Harpidae 104 |
| Alacuppidae 138 | Colubrariidae 94 | Heliconoididae 139 |
| Amathinidae 141 | Columbariidae 85 | Hemidonacidae 176 |
| Amphibolidae 140 | Columbellidae 93 | Hercoglossidae 189 |
| Ampullinidae 51 | Condyllocardiidae 166 | Hiatellidae 182 |
| Anabathridae 65 | Conidae 118 | Hipponicidae 58 |
| Ancillariidae 102 | Conorbidae 124 | Horaiclavidae 125 |
| Angariidae 42 | Conradiidae 48 | Hyalocylidae 140 |
| Anomiidae 161 | Corbulidae 182 | Hydrococidae 64 |
| Aporrhaidae 71 | Costellariidae 85 | Iravadiidae 65 |
| Architectonicidae 135 | Crassatellidae 166 | Ischnochitonidae 191 |
| Arcidae 146 | Creseidae 140 | Isognomonidae 153 |
| Astartidae 166 | Cryptoplacidae 195 | Juliidae 143 |
| Atlantidae 58 | Cucullaeidae 147 | Laevidentaliidae 187 |
| Aturiidae 189 | Cuspidariidae 185 | Lasaeidae 171 |
| Austrosiphonidae 96 | Cuvierinidae 140 | Laternulidae 183 |
| Basterotiidae 171 | Cyamiidae 171 | Lepetellidae 41 |
| Batillariidae 54 | Cylichnidae 137 | Leptochitonidae 190 |
| Bellolividae 102 | Cymatiidae 81 | Limicinidae 139 |
| Borsoniidae 120 | Cypraeidae 73 | Limidae 161 |
| Buccinidae 95 | Cyrenidae 181 | Limopsidae 150 |
| Bullidae 137 | Cystiscidae 112 | Liotiidae 47 |
| Calliostomatidae 46 | Dentaliidae 186 | Lironobidae 65 |
| Callistoplacidae 191 | Dialidae 55 | Litiopidae 55 |
| Callochitonidae 193 | Diastomatidae 54 | Littorinidae 58 |
| Calyptraeidae 67 | Dimyidae 160 | Loricidae 192 |
| Campanilidae 51 | Dolicholatiridae 93 | Lottiidae 38 |
| Cancellariidae 116 | Drilliidae 124 | Lucinidae 168 |
| Capulidae 68 | Eatoniellidae 57 | Mactridae 176 |
| Cardiidae 172 | Echinofulguridae 97 | Malletiidae 146 |
| Carditidae 163 | Elachisinidae 64 | Mangeliidae 126 |
| Cassidae 80 | Eoacmaeidae 38 | Marginellidae 113 |
| Cavoliniidae 140 | Eocypraeidae 77 | Mathildidae 134 |
| Cerithiidae 55 | Epigridae 65 | Melongenidae 97 |
| Cerithiopsidae 60 | Epitoniidae 61 | Mesodesmatidae 177 |
| Chamidae 175 | Eratoidae 71 | Mitridae 103 |
| Charoniidae 81 | Eucyclidae 42 | Mitromorphidae 127 |
| Chilodontidae 41 | Eulimidae 66 | Muricidae 88 |
| Chitonidae 193 | Fasciolaridae 98 | Myochamidae 184 |
| Cimidae 134 | Ficidae 84 | Mytilidae 151 |
| Cingulopsidae 58 | Fissurellidae 39 | Nacellidae 38 |
| Clathurellidae 122 | Gadilidae 188 | Nassariidae 97 |
| Clavagellidae 183 | Gadilinae 187 | Naticidae 78 |
| Clavatulidae 123 | Glossidae 176 | Nautilidae 188 |
| Cleidothaeridae 184 | Glycymerididae 148 | Neoleptonidae 177 |
| Cliidae 140 | Gryphaeidae 154 | Neritidae 51 |

Newtoniellidae 59	Psammobiidae 174	Struthiolariidae 69
Noetidae 148	Pseudolividae 102	Tellinidae 173
Nuculanidae 144	Pseudomelatomidae 128	Terebridae 119
Nuculidae 143	Pteriidae 153	Teredinidae 183
Olividae 103	Pyramidellidae 141	Thraciidae 185
Omniglyptidae 187	Ranellidae 84	Thyasiridae 170
Orbitestellidae 134	Raphitomidae 129	Tonnidae 84
Ostreidae 154	Rhizoridae 137	Tornidae 64
Ovulidae 77	Ringiculidae 136	Trigoniidae 162
Patellidae 38	Rissoidae 66	Triphoridae 61
Pectinidae 155	Rissoinidae 66	Triviidae 71
Penicillidae 183	Sareptidae 146	Trochaclididae 41
Periplomatidae 185	Scaliolidae 55	Trochidae 42
Personidae 84	Seguenziidae 41	Tudicidae 97
Pharidae 182	Semelidae 175	Turbinellidae 84
Phasianellidae 50	Sepiidae 189	Turbinidae 48
Phenacolepadidae 51	Seraphsidae 70	Turridae 130
Philobryidae 151	Siliquariidae 54	Turritellidae 52
Pholadidae 183	Siphonariidae 143	Umbraculidae 137
Pholadomyidae 184	Skeneidae 48	Unassigned conoids 131
Pinnidae 153	Solariellidae 42	Ungulinidae 175
Pisaniidae 98	Solariellidae 47	Veneridae 177
Planaxidae 57	Solecurtidae 175	Vermetidae 58
Plesiotrochidae 51	Solemyidae 146	Verticordiidae 186
Pleurotomariidae 38	Solenidae 182	Vitrinellidae 64
Plicatulidae 160	Spirulirostridae 189	Volutidae 105
Potamididae 57	Spondylidae 160	Volutomitridae 87
Propeamussiidae 159	Sportellidae 172	Vulsellidae 154
Prosiphonidae 95	Strombidae 70	Xenophoridae 69
Protochitonidae 191		

Index of Generic Names

- Abrachlamys* 155
Acanthochiton 194
Acanthochitona 194
Acar 147
Acesta? 161
Acirsa 61
Acmaea 38
Acremodontina 41
Acrilla 62
Acrosterigma 172
Actaeon 136
Acteocina 137
Acteon 136
Addisonia 41
Adelacerithium 59
Ademitrella 94
Afossochiton 194
Agatha 141
Agathodonta? 41
Alaginella 114
Alcithoe 110
Alocospira 102
Altivasum 85
Altrix 39
Alvania 66
Amaea 63
Amalda 103
Amblychilepas 40
Amesodesma 177
Amoria 108
Ampullina 51
Amusium 159
Anacithara 125
Anapella 177
Ancistrobasis 41
Angaria 42
Anguillospira 54
Anisodonta 171
Annachlamys 158
Anodontia 170
Anomia 161
Antalis 186
Antarctolima 162
Antephalium 81
Anthochiton 193
Antisabia 58
Antisolarium 42
Antizafa 94
Apiotoma 123
Arca 146
Archierato 71
Arcoperna 152
Arcopsis 148
Arcturellina 165
Arthritica 171
Asperdaphne 129
Astarte 166
Astele 46
Astraea 48
Astrarium? 48
Atactodea 177
Ataxocerithium 59
Athleta 105
Atlanta 58
Atrina 153
Attiliosa 91
Aturia 189
Aturoidea 189
Aulacochiton 192
Aulacomya 152
Aulicina 112
Australaria 99
Australoneilo 146
Austrocarina? 125
Austroclavus 131
Austrococchlea 42
Austrococchlis 80
Austrocypraea 74
Austrodosinia 180
Austrofuscus? 95
Austroginella 114
Austroharpa 104
Austrohinnites 155
Austroliotia 47
Austrolithes 101
Austromitra 85
Austronucula? 143
Austrosassia 82
Austrosipho 96
Austrotoma 131
Austrotriton 82
Austrovoluta 106
Awarua 135
Balcomitra 86
Bankivia 42
Barbatia 146
Barnea 183
Baryspira 103
Bassethullia 195
Bassina 180
Bathymophila? 42
Bathytoma 120
Batillariella 54
Bedeva 92
Belatomina 131
Belchiton 190
Bellastraea 49
Belloliva 102
Bellucina 168
Belophos 131
Bembicium 58
Berthelinia 143
Bertinella 173
Biplex 84
Bittium 55
Bolma 48
Bonellitia 117
Bonellitia? 117
Borniola 171
Borsonia 121
Botelloides 45
Brachidontes 151
Brechites 184
Brocchinia 116
Brocchitas 99, 100
Brookula 41
Buccinaria 129
Bulla 137
Cabestana 83
Cacozeliana 55
Cadulus 188
Callanaitis 180
Calliobasis 41
Calliostoma 46
Calliotropis 42
Callistelasma 191
Callistina 181
Callistochiton 191
Callitriphora 61
Callochiton 193
Callucina 168

- Callucinella* 168
Calthalotia 44
Calyptropsis 68
Campanile 51
Canalispira 112
Cancellaphera 117
Cantharidus 43
Cantharus 98
Capistrocardia 182
Capulus 68
Cardiolucina 168
Cardita 163
Carditella 165
Carditellopsis 166
Cardium? 172
Carinacomitas 128
Carinastele? 47
Carswellena 49
Caryocorbula 182
Cassis 80
Cassoginella 114
Cellana 38
Cerithidea? 57
Cerithidium 55
Cerithiella 59
Cerithioderma 68
Cerithiopsis 60
Cerithium 55
Chama 175
Charonia 81
Chavanicerithium 56
Cheilea 58
Chemnitzia 142
Chevallieria 65
Chiazacmea 37
Chicomurex 89
Chicoreus 89
Chileutomia 67
Chioneryx 181
Chlamys 157, 158
Cimomia 189
Cinguliturris 131
Circomphalus 180
Circuloscala 62
Circulus 64
Cirsochilus 50
Cirsonella 48
Cirsotrema 62
Clanculus 43
Claraxis 135
Clathrus 63
Clavagella 183
Clavocerithium 55
Clavogemmula 131
Cleidothaerus 184
Clio? 140
Closia 113
Clypidina 40
Cocculina? 41
Cocculinella 41
Cochlespira 123
Codakia 170
Colina 57
Collonia 50
Collonista 50
Colposigma 52
Colpospira 52
Colubraria 94
Columbarium 85
Cominella 95
Comitas 128
Comitileda 144
Compressidens 187
Conasprella 118
Concholepas 93
Condylocardia 166
Conominolia 42
Conomitra 87
Conorbis 124
Conuber 78
Conuginella 113
Conus 118
Coralliophila 88
Corbicula? 181
Corbula 182
Cordieria 121
Coronasyrinx 123
Cosa 151
Cosmasyrinx 131
Cosmetalepas 40
Costatophora 61
Costellaria 86
Cottonia 111
Coxellaria 59
Crassispira 128
Crassitoniella 57
Crenella 152
Creseis 140
Crithe 113
Crossea 48
Crosseola 48
Cryptoborsonia 132
Cryptocordieria 132
Cryptoplax 195
Cryptospira 115
Ctenocolpus 52
Cucullaea 147
Cucullona 147
Cumia 94, 95
Cuna 166
Cupidoliva 103
Curveulima? 67
Cuspidaria 185
Cyamiocardium 171
Cyclocardia 165
Cyclostrema 48
Cylichna 137
Cylichnania 138
Cylichnatys 139
Cylichnella 138
Cyllene 98
Cymatiella 83
Cymbiola 112
Cypraedia 77
Cypraeerato 71
Cystiscus 112
Damoniella 139
Danilia 42
Daphnella 130
Delectopecten 155
Deltoidonautilus 189
Dennantia 98
Dentalium 186
Dentiginella 113
Dentimargo 115
Dentimitrella 94
Dermomurex 91
Diala 55
Dianadema 183
Diastoma 54
Dibaphimitra 104
Dicathais 93
Dichotochlamys 155
Diloma 42
Diloma 44
Dimya 160
Dimyodon 160
Diplodonta 175
Dischides 188
Discotectonica 135
Dissochilus 64
Divalucina 170
Dolicholatirus 93
Dolicrossea 64
Donax 174
Dosina 177

- Dosinia* 179
Dosinobia 179
Drepanochilus 71
Drillia? 124
Drupella 92
Duplicaria 119
Eatoniella? 57
Eburnopsis 102
Echinophoria 80
Ectosinum 79
Edithias 93
Elachisina 64
Electomactra 176
Electroma 154
Ellatrivia 72
Emarginula 39
Enatimene 92
Ennucula 143
Eoacmaea 38
Eocithara 104
Eocolina 60
Eocolina 61
Eofusus 100
Eomiltha 170
Eoplax 195
Eotrigonia 162
Epicodakia 168
Epideira 125
Epidirella? 130
Epigrus 65
Epitonium 63
Equichlamys 155
Erato 71
Eratoena 71
Eratoidea 116
Ericusa 110
Eschatocypraea 75
Etrema 122
Etremopsis 123
Eubittium 54
Euchelus 42
Eucithara 126
Eucrassatella 167
Eudolium 84
Eulima 66
Eulimella 142
Eumetula 60
Eumetula? 60
Eumitra 104
Eunaticina 78
Euninella 49
Euriclanculus 43
Euroscaphella 107
Euspira 78
Euspirocrommium 51
Eutinochilus 50
Eutrephoceras 188
Evelynella 141
Exiginella 113
Exohaliotis 39
Exomilus 130
Exosiperna 152
Fasciculicardia 164
Fautor 46
Felaniella 175
Fenestrodaphne 132
Ficus 84
Filodrillia 121
Fimbria 170
Finella 55
Fissidentalium 186
Foegia 184
Fossacallista 178
Fossarus 57
Fractarmilla 42
Frigidocardium 173
Friginatica 79
Fulvia 172
Fusiaphera 117
Fusimorio 118
Fusinus 101
Fustiaria 187
Gadila 188
Gadilina 187
Gafrarium 178
Galeodea 81
Gari 174
Gazameda 53
Gemellima 162
Gemixystus 91
Gemmaterebra 120
Gemmoliva 102
Gemmula 130
Gena 46
Gergovia 116
Gibberula 113
Gibbolucina 170
Gibbula 45
Gigantocypraea 74
Gilbertina 136
Glans 165
Globisinum 79
Globivenus? 181
Glossus 176
Glycymeris 148
Glyptoactis 164
Glyptozaria 55
Gomphina 181
Gonimyrtea 169
Gracilispira 103
Grandaxinaea 149
Granosolarium 135
Granulotriforis 60
Graphis 134
Guildfordia 50
Guraleus 126
Gussonea 97
Gyrineum 84
Haliotis 38
Hartungia 63
Hastula 120
Haurakia 66
Haurokoa 84
Hauturua 124
Hawaiarca 147
Hedecardium 172
Heliacus 135
Heliconoides 139
Heligmope 63
Hemiconus 118
Hemidonax 176
Herpetopoma 41
Heterocithara 127
Heterozona 191
Hexaplex 88
Hianoginella 115
Hiatella 182
Hiatula 175
Hima 97
Hina 177
Hinnites 155
Hipponix 58
Hispidofusus 85
Homalopoma 50
Homolocantha 89
Hubendickula 143
Humphreyia 183
Hydrococcus 64
Hypocassis 80
Hypotrochus 51
Icuncula 69
Inella 61
Infundibulum? 43
Inglisella 116
Inquisitor 129
Insolentia 132

- Integradrillia* 129
Isanda 47
Isara 104
Ischnochiton 190
Ischnochiton 191
Isognomen 153
Isotriphora 61
Jagolucina? 168
Janthina 63
Jasonia 163
Jetwoodsia 56
Joculator 60
Johannaia 132
Jouannetia 183
Katelsysia 180
Kaurnella 50
Kendrickiana 184
Kereia 179
Labrostrea? 154
Laciolina 173
Laetifautor 46
Laevicardium 172
Laevidentalium 187
Laevitrombus 70
Laevityphis 93
Lahillia 173
Lamellileda 145
Lamellinucula 143
Lamprodomina 103
Landinia 166
Lataginella 113
Laternula 183
Lavenachiton 196
Ledella 144
Ledina 144
Leionucula 143
Leiopyrga 43
Leiostraca 66
Lentigo 71
Lentipecten 156, 157
Lepidocolus 101
Lepidopleurus 190
Leptochiton 190
Lepton 171
Leptoscapa 107
Leucorhynchia 48
Levifusus? 97
Lima 161
Limacina 139
Limarca 151
Limatula 162
Limea 162
Limopsis 150
Linga 168
Liniaxis? 88
Liotella 48
Liotina 47
Lirachiton 195
Liratomina 132
Lissarca 151
Lithophaga 152
Lithophaga 153
Litigiella 171
Litiopa 55
Livonia 111
Lopha 154
Lophiotoma 131
Lorica 192
Loricella 192
Loxotaphrus 118
Lucina 168
Lunella 49
Lyncina 74
Lyria 106
Macoma 174
Macomona 173
Macteola 127
Mactra 176
Mactrotoma 176
Magallana 154
Makiyamaia 123
Mammilla 80
Mammiscala 63
Manulona 56
Maoricolpus 53
Maoricrypta 68
Maoritomella 121
Mappingia 132
Marama 177
Marginella? 116
Margineulima 66, 67
Marinauris 39
Marshallaria 133
Martesia 183
Mastoniaeformis 61
Mathilda 134
Mauidrillia 125
Megastomia 141
Melanella 67
Melaxinaea 150
Melongena 97
Mereldia 55
Merelina 66
Mesericusa 110
Mesoclanculus 43
Mesoginella 115
Mesopeplum 158
Micantapex 120
Micrastraea 49
Micrelenchus 45
Microcolus 101
Microdiscula 134
Microdrillia 121
Microfulgur? 102
Microvoluta 87
Miltha 169
Milthoidea 169
Mimachlamys 158
Minolia 47
Miocardiopsis 176
Mioginella 114
Mipus 88
Mirolacuna 64
Mitra 104
Mitrella 93
Mitreola 107
Mitromorpha 127
Mnestia 138
Modiolaria 152
Modiolus 153
Molachiton 195
Monilea 44
Monitilora 169
Monodonta 42
Monophorus 61
Monoplex 84
Monstrotyphis 93
Montacuta 171
Montfortula 39
Munditia 47
Murexiella 89
Murexiella 89
Murexsul 89
Musculus 152
Myadora 184
Myllita 171
Myochama 184
Myrtea 169
Mysella 171
Mytilus 151
Nacella? 38
Nannamoria 108
Nanula 44
Nassaria 98
Nassarius 98
Natica 79

- Nautilus* 188
Neilo 146
Nemocardium 173
Neoguraleus 127
Neolepton 177
Neotrignonia 163
Nepotilla 130
Nerita 51
Nevia 117
Nina 58
Ninella 50
Niotha 98
Niso 67
Noditerebra 119
Notacirsa 61
Notadusta 77
Notoacmea 38
Notocallista 178
Notochlamys 155, 156
Notocochlis 80
Notocorbula 183
Notocypraea 75
Notogibbula 44
Notogrammatodon 147
Notolimea 161
Notoluponia 75
Notopeplum 112
Notoplax 195
Notoseila 60
Notosepia 190
Notosinister 61
Notospisula 176
Notostrea 155
Notovoluta 107
Nozeba 65
Nucula 143
Nuculana 144
Numella 175
Oamaruia 117
Obtortio 55
Ocellochiton 193
Ocenebra 89
Odontotrochus 44
Odostomia 141
Ollaphon? 101
Omniglypta? 187
Onoba 66
Oochiton 193
Opalia 62
Opella 50
Optoturris 133
Orbicularia? 182
Orthochetus 57
Ostrea 154
Otopleura 142
Ovaginella 115
Ovaleda 146
Ovicardium 172
Oxymeris 120
Palamharpa 104
Palliocypraea 77
Panope 182
Panopea 182
Paphies 177
Paraclanculus 43
Paraguraleus 127
Paramarshallena 133
Parasyngenchilus 133
Pareora 54
Pareuchelus? 47
Paricoplax 193
Partubiola 48
Parvamussium 159
Paziella 89
Pecten 159
Peculator 87
Pegophysema 170
Pellax 57
Pelecydium 65
Penion 96
Pepta 116
Periglypta 178
Periploma 185
Peretrochus 38
Persicula 113
Personopsis 84
Pervicacia 119
Phacosoma 180
Phalium 81
Phallomedusa 140
Phasianella 50
Phasianotrochus 43
Phenacolepas 51
Phenacovolva 77
Philobrya 151
Pholadomya 184
Phos 95
Phragmorisma 185
Phycothais 93
Phygraea 154
Pinctada 153
Pinna 153
Pisinna 65
Placamen 180
Plagiarca 147
Platycolpus 52
Plaxiphora 196
Plebidonax 174
Pleia 100
Plesiotrochus 51
Pleuromeris 166
Pleurotomaria 38
Plicacesta 161
Plicatula 160
Pliciscala 62
Plumbelenchus 45
Pododesmus 161
Polinices 78
Ponticypraea 77
Poroleda 144
Potamidid 57
Praehyalocytilis 140
Pratulium 172
Priscaphander 139
Proclava 57
Pronucula 143
Propeamusium 160
Propefusus 100
Propeleda 145
Properycina 171
Prophetilora 169
Proterato 71
Prothalotia 44
Protochiton 191
Protoginella 114
Protolorica 192
Prototyphis 91
Proxichione 178
Proximitra 87
Proxiuber 79
Psammobia 174
Psammotellina 175
Pseudexomilus 126
Pseudoarcopagia 173
Pseudofax 95
Pseudoischnochiton 191
Pseudoliotia 65
Pseudoloricella 192
Pseudolucinisca 168
Pseudomalaxis 135
Pseudoninella? 42
Pseudopisinna 58
Pseudovaricia 95
Pseudovertagus? 55
Psilaxis 135
Pteria 153

- Pterochelus* 90
Pterospira 111
Pterynotus 90
Pugilina? 97
Pulchrastele 45
Pulsellum 188
Punctiscala 62
Punctiscala 63
Puncturella 39
Puposyrnola 141
Purpurocardia 165
Pycnodonte 154
Pygmaepterys 89
Pyrgiscus 142
Pyrgolampros 142
Quadrilatera 148
Radsia 196
Ranella 84
Raulinia 141
Refluharpa 104
Regozara 172
Reticunassa 98
Retizafra 94
Rhinoclavis 57
Rhynchocypraea 76, 77
Rhyssoplax 193
Rimula? 39
Ringicula 136
Rissoina 66
Rotundicardia 164
Roxania 138
Rugobela 133
Sabia 58
Sacella 145
Salaputium 167
Salinator 140
Salsipotens 46
Saltocuna 170
Sanguinolaria 175
Sarepta 146
Sassia 81
"Sassia" 82
Scaeolea 145
Scalaricardita 165
Scalptia 116
Scaphander 139
Scrinium 128
Scutellastra 38
Seila 60
Seilarex 61
Semelanguilus 174
Semele 175
Semiaetaeon 136
Semibittium 55
Semicassis 81
Semipallium 156
Semiretusa 138
Semitriton 117
Semitrivia 71
Semivertagus 57
Sepia 190
Septifer 152
Seraphs 70
Serrata 113
Serratifusus 96
Serripecten 156
Servatrina 153
Sigapatella 67
Sigaretotrema 78
Singletonaria 70
Sinum 79
Siphonaria 143
Siphonochelus 93
Siphonodentalium 188
Siratus 90
Sirius 69
Solamen 152
Solecurtus 171
Solecurtus 175
Solemya 146
Solen 182
Solutofusus 101
Sophismalepas 40
Spectamen 47
Sphaerocypraea 78
Spinomelon 109
Spirocolpus 53
Spirulirostra 189
Spissatella 168
Spisula 176
Splendrilla 124
Spoelia 140
Spondylus 160
Sportella 172
Stabilima 162
Stirpulina 183
Stomatella 46
Streblorhamphus 64
Streptopinna? 153
Striacallista 179
Strigilla 174
Strioterebra 119
Stromboginella 114
Strombus 70
Styliola 140
Sublacuna 64
Subninella 49
Subpterynotus 89
Sulcerato 71
Sulcobuccinum 102
Sulcocypraea 77
Sunemeroe 178
Sunetta 178
Superstes 136
Sydaphera 116
Syngenochilus 133
Syntomodrillia 124
Syrnola 141
Takia 91
Talochlamys 157
Tanea 79
Taniella 79
Tasmatica 80
Tasmeuthria 97
Tawera 181
Tectarius 58
Tecticrater 41
Tectifusus 102
Tectonatica 80
Teichertia 189
Teinostoma 64
Teleochilus 130
Tellina 173
Tellinella 173
Tellinides 173
Telochiton 194
Tenagodus 54
Tenuiactaeon 137
Terebellum 70
Terebra 120
Teredo 183
Terenochiton 190
Ternivoluta 105
Thalotia 44
Thericium 55
Thracia 185
Thyasira 170
Thylacodes 58
Tikia 181
Timbellus 90
Timoclea 181
Tomopleura 122
Torinista 135
Tornatellaea 137
Tornatina 138
Tornus? 64

Tosapusia 86
Trachycardium 172
Trameharpa 105
Trichamathina 68
Trichomya 152
Tricolia 50
Tricornis 70
Trigonostoma 118
Triphora 61
Triplex 89
Triploca 137
Tritia 97
Tritonoharpa 118
Trituba 60
Trivellona 72
Triviella 72
Trochaclis? 41
Trochus 43
Trophon? 92
Tuba 134
Tucetilla 148
Tucetona 149
Tudivasum 84
Tugali 40
Tugalia 40
Turbo 49
Turboella 66
Turbonilla 142
Turehua 118
Turricolumbus 94
Turrinosyrinx 134
Turplicifer 86
Turris 131
Tylospira 69
Typhina 93
Typhis 92
Uber 78
Umbilia 76
Umbraculum 137
Unitas 118
Urniginella 115
Vaginella 140
Valsantia 135
Varicosipho 95
Vasticardium 172
Vasum 84
Veletuceta 149
Venericardia 164, 166
Venerupis 180
Vepracula? 130
Vepricardium 172
Veprichlamys 157
Veremolpa 181
Vermicularia? 54
Verticordia 186
Veruturris 134
Vetaginella 113
Vexillum 86
Viator 91
Victoripecten 157
Vimentum 165
Viriola? 61
Vitularia 88
Vixinquisitor 129
Vokesimurex 88
Volutomitra 87
Volvulella 137
Vulsella 154
Waihaoia 109
Waimatea 87
Wallucina 168
Warrana 166
Widningia 88
Willungia 77
Xenophora 69
Ylistrum 159
Zaclys 60
Zeacolpus 53
Zeacrypta 68
Zeacumantus 54
Zeatrophon 91
Zelandiella? 96
Zemacies 122
Zemira 102
Zemysia 175
Zenatina 177
Zenatiopsis 176
Zeuxis 97
Zoila 73

Index of Species Names

- abbotti*, *Austrosassia* 82
abbotti, *Charonia* (*Austrosassia*) 82
abbotti, *Triton* 82
abbreviata, *Austroharpa* (*Palamharpa*) 105
abbreviata, *Austroharpa* 105
abbreviata, *Crassatella* 167
abbreviata, *Harpa* (*Eocithara*) 105
abbreviata, *Harpa* 105
abbreviatum, *Salaputium* 167
abbreviatus, *Guraleus* (*Paraguraleus*) 127
abbreviatus, *Paraguraleus* 127
abject, *Purpura* (*Trochia*) 93
abjecta, *Dicathais* 93
absidata, *Nannamoria* 108
acanthopterus, *Typhis* 92
acanthostephes, *Columbarium* 85
acanthostephes, *Columbarium acanthostephes* 85
acanthostephes, *Fusus* 85
accrescens, *Cerithioderma* 69
accrescens, *Sirius* 69
accrescens, *Trichotropis* 69
Acesta? sp. 161
aciformis, *Dolicholatirus* 93
aciformis, *Fusus* 93
acinaciformis, *Leda* 145
acinaciformis, *Nuculana* (*Scaeoleda*) 145
acinaciformis, *Nuculana* 145
acinaciformis, *Scaeoleda* 145
acinella, *Colpospira* (*Platycolpus*) 52
acinella, *Platycolpus* 52
acinella, *Turritella* 52
Acmaea (*Chiazacmea*) sp. 38
acra, *Amblychilepas* 40
acra, *Sophismalepas* 40
acricula, *Gazameda* 53
acricula, *Turritella* 53
acricula var., *Turritella* 53
acriculum, *Dentalium* (*Fustiaria*) 187
acriculum, *Dentalium* (*Laevidentalium*) 187
acriculum, *Dentalium* 187
acriculum, *Entalis* 187
acriculum, *Laevidentalium* 187
acrisecta, *Syrnola* (*Puposyrnola*) 141
acrisecta, *Syrnola* 141
Acrosterigma sp. 172
acrotholoides, *Conus* 119
Acteon sp. 136
actinostephes, *Fusinus* (*Microcolus*) 101
actinostephes, *Microcolus* 101
actinostephes, *Peristernia* 101
actinotus, *Thylacodes* 58
aculeata, *Rapana* 89
aculeatus, *Hexaplex?* 88
aculeatus, *Paziella* 89
acuminata, *Gadila* 188
acuminatus, *Cadulus* (*Gadila*) 188
acuminatus, *Cadulus* 188
acuticarinata, *Adeorbis* 64
acuticarinata, *Tornus?* 64
acuticauda, *Leda* 145
acuticauda, *Saccella* 145
acuticostata, *Lyria* 106
acuticostata, *Neotrigonia* 163
acuticostata, *Trigonia* 163
acuticostata, *Trigonia margaritacea* var. 163
acuticostulata, *Lyria* 106
acutinodosa, *Cominella* 96
acutispira, *Eulima* 66
acutispira, *Leiostraca* 66
acutispira, *Mappingia* 132
acutissima, *Eulima* 66
acutissima, *Leiostraca* (*Leiostraca*) 66
acutum, *Solarium* 135
adcocki, *Antecephalium* 81
adcocki, *Phalium* (*Semicassis*) 81
additoides, *Duplicaria* 119
additoides, *Strioterebra* (*Pervicacia*) 119
additoides, *Terebra*, 119
adelaidae, *Splendrillia* 124
adelaidae, *Acanthochiton* (*Eoplax*) 195
adelaidae, *Belloliva* 102
adelaidae, *Belloliva* cf. *B.* 102
adelaidae, *Conasprella* 118
adelaidae, *Conus* (*Floraconus*) 118
adelaidae, *Eoplax* 195
adelaidae, *Gemmoliva* sp.cf., *G.* 102
adelaidae, *Notoplax* 195
adelaidae, *Oliva* 102
adelaidense, *Chavanicerithium* 56
adelaidense, *Diastoma* 54
adelaidense, *Siphonodentalium* (*Pulsellum*) 188
adelaidense, *Siphonodentalium* 188
adelaidense, *Thericium* (*Chavanicerithium*) 56
adelaidensis, *Pterochelus?* 90

- adelaidensis*, *Amalda* 103
adelaidensis, *Ancilla* (*Turrancilla*) 103
adelaidensis, *Anguillospira* 54
adelaidensis, *Bathytoma* 125
adelaidensis, *Caryocorbula* 182
adelaidensis, *Cheilea* 58
adelaidensis, *Cleidothaerus* 184
adelaidensis, *Corbula* 182
adelaidensis, *Cucullaea* 147
adelaidensis, *Cucullaea* sp. cf. *C.* 147
adelaidensis, *Cuspidaria* 185
adelaidensis, *Cymatiella* 83
adelaidensis, *Epideira* 125
adelaidensis, *Epidirona* 125
adelaidensis, *Gazameda* 53
adelaidensis, *Guraleus* (*Euguraleus*) 126
adelaidensis, *Guraleus* 126
adelaidensis, *Lentipecten* 156
adelaidensis, *Liratomina* 132
adelaidensis, *Litigiella* 171
adelaidensis, *Megastomia* 141
adelaidensis, *Modiola* 153
adelaidensis, *Modiolus* 153
adelaidensis, *Murex* (*Chicoreus*) 90
adelaidensis, *Neaera* 185
adelaidensis, *Nina* 58
adelaidensis, *Pterochelus* 90
adelaidensis, *Pterynotus* (*Pterochelus*) 90
adelaidensis, *Syrnola* (*Evelynella*) 141
adelaidensis, *Tectarius* (*Nina*) 58
adelaidensis, *Tectarius* 58
adelaidensis, *Terebralia* 56
adelaidensis, *Thylacodes* 54
adelaidensis, *Turbonilla* (*Chemnitzia*) 142
adelaidensis, *Turbonilla* 142
adelaidensis, *Turritella* (*Gazameda*) *acricula* 53
adelaidensis, *Turritella* (*Gazameda*) 53
adelaidensis, *Vepracula*? 130
adelomorphus, *Streptochetus* 99
advenulata, *Spiratella* 139
advenulata, *Limacina* 139
aequalis, *Gari* 174
aequalis, *Psammobia* 174
aequilatera, *Tellina* 174
aequilateralis, *Myadora* 184
aequisulcata, *Gibbula* (*Notogibbula*) 44
aequisulcata, *Gibbula* 44
aequisulcata, *Notogibbula* 44
affinis *Lorica compressa*, var. 192
affinis, *Lorica* 192
affinis, *Lucina* 168
affinis, *Microcolus* 101
affinis, *Peristernia* 101
affinitalis, *Limopsis* 151
Agathodonta? sp. 41
agnewi, *Lyonsia* 182
agnewi, *Panopea* 182
agnewi, *Voluta* 112
agnewi, *Voluta* 112
aktinos, *Semipallium* 156
alata, *Cardita* (*Jasonia*)[sic] 163
alata, *Cardita* 163
alata, *Mytilocardia* 163
albicostatus, *Modiolus*, 153
albida, *Chamostrea* 184
albidus, *Cleidothaerus* 184
albinelloides, *Tellina* 173
albosutura, *Eunaticina* 78
albosutura, *Sigaretotrema* 78
aldingae *Spirocolpus* 53
aldingae, *Alaginella* 114
aldingae, *Laciolina* 173
aldingae, *Marginella* 114
aldingae, *Tellina* (*Tellinella*) 173
aldingae, *Turritella* 53
aldingensis, *Brocchitas* 98
aldingensis, *Comitas* (*Carinocomitas*) 128
aldingensis, *Comitas* 128
aldingensis, *Dennantia* 98
aldingensis, *Friginatica* 79
aldingensis, *Fusus* 102
aldingensis, *Mauidrillia* 125
aldingensis, *Mauidrillia* sp. cf. *M. aldingensis* 125
aldingensis, *Natica* 79
aldingensis, *Pecten* (*Chlamys*) 156
aldingensis, *Pecten* 156
aldingensis, *Peristernia* 98
aldingensis, *Salaputium* 167
aldingensis, *Spondylus* 160
aldingensis, *Tectifusus* 102
aldingensis, *Serripecten* 156
alea, *Myadora* 185
alliterata, *Etrema* 123
allporti, *Voluta*? 110
allporti, *Bassina* (*Callanaitis*) 180
allporti, *Bassina* 180
allporti, *Chione* 180
allporti, *Circomphalus* 180
allporti, *Venus* 180
allporti, *Voluta* 107
alokiza, *Eumitra* 104
alokiza, *Mitra* (*Eumitra*) 104
alokiza, *Mitra* 104
alquezae, *Nannamoria* 109

- alta*, *Risella* 58
alternata, *Thalotia* 44
alticosta, *Limea* 162
alticosta, *Notolimea* 162
alticostata, *Cottonia* 111
alticostata, *Voluta* 111
alticostata, *Voluta* 111
altifrons, *Eutrephoceras* 188
altifrons, *Nautilus* 188
altifrons, *Peristernia* 99
altiplica, *Bullinella* 138
altiplica, *Cylichna* 138
altispira, *Apiotoma* 128
altispira, *Dentimargo* 115
altispira, *Ficus* 84
altispira, *Marginella* (*Dentimargo*) 115
altispira, *Marginella* 115
altispira, *Pyrula* 84
altispira, *Turris* 128
altum, *Bembicium* 58
alveolata, *Cancellaria* 116
alveolata, *Scalptia* 116
alveolatus, *Murex* (*Ocinebra*) 88
amae, *Austrocypraea* 75
ambylyceras, *Chicoreus* (*Triplex*) cf. 90
ambylyceras, *Chicoreus* (*Triplex*) 90
ambylyceras, *Chicoreus* 90
ambylyceras, *Murex* (*Chicoreus*) 90
amplexa, *Nannamoria* 108
ampullacea, *Austrocypraea* 74
ampullacea, *Cypraea* 74
amygdalina, *Cypraea* 76
anacanthos, *Bolma* 49
analogica, *Austromitra* 86
anatinaeformis, *Phragmorisma* 185
anceps, *Bedevea* 92
anceps, *Trophon* 92
ancilloides, *Alcithoe* 110
ancilloides, *Ericusa* (*Ericusa*) 110
ancilloides, *Ericusa* 110
ancilloides, *Scaphella* 110
ancilloides, *Voluta* 110
ancisa, *Notocallista* (*Fossacallista*) 179
anemone, *Conus* (*Floraconus*) 119
anemone, *Conus* 119
angasi, *Hiatella* 182
angasi, *Ostrea* 154
angasi, *Pseudoliotia* 65
angulata, *Tudicula* 84
angulatum, *Tudivasum* 84
angulifera, *Cerithioderma* 68
angulifera, *Trichotropis* 68
angulosa, *Oxymeris* 120
angulosa, *Terebra* 120
angushawkei, *Triviella* 72
angusta, *Amesodesma* 177
angusta, *Paphies* 177
angustata, *Bullinella* 137
angustata, *Cylichna* 137, 138
angustata, *Cylichna* cf. *C.* 137
angustata, *Lamprodoma*, 103
angustata, *Oliva* 103
angustata, *Zenatiopsis* 176
angusticostata, *Austromitra* 86
angustifrons, *Bathytoma* 120
angustifrons, *Genotia* 120
angustifrons, *Limarca* 151
angustior, *Cypraea platyrhyncha* 76
angustior, *Myadora* 185
angustior, *Parasyngenchilus* 133
angustior, *Parasyngenchilus* sp. cf. *P.* 133
angustior, *Umbilia* (*Umbilia*) *platyrhyncha* 76
angustior, *Umbilia* (*Umbilia*) 76
angustior, *Voluta weldii*, var. 108
Annachlamys sp. 158
annectans, *Austrosassia* 82
annectans, *Lotorium* 82
annectans, *Triton* 82
annulata, *Liotella* 48
annulata, *Praehyalocylis* 140
annulata, *Styliola* 140
annulatum, *Entalis* 187
anomala, *Mysella* 171
Anomia sp. 161
antecedens, *Notochlamys?* 155
antecedens, *Homolocantha* 89
antecedens, *Murexiella* (*Subpterynotus*) 89
antecedens, *Murexiella* (*Subpterynotus*) [sic] 89
antecedens, *Negyrina* 83
antecedens, *Subpterynotus* 89
antecursoria, *Zemira* 102
antecursoria, *Zemira australis* 102
antiaustralis, *Chlamys* (*Chlamys*) 158
antiaustralis, *Chlamys asperrimus* 158
antiaustralis, *Pecten* 158
anticingulata, *Athleta* (*Ternivoluta*) 105
anticingulata, *Austrovoluta* 105
anticingulata, *Cylichna* 138
anticingulata, *Ternivoluta* 105
anticingulata, *Voluta* 105
anticoronata, *Conomitra?* 87
Antiguraleus? sp. b 127
Antiguraleus? sp. c 127
antipodum, *Ellatrivia* 73

- antipodium* var. A, *Ellatrivia* 73
antipodium var. B, *Ellatrivia* 73
antiquata, *Concholepas* 93
antiquata, *Edithias* 93
antiscalaris, *Ternivoluta* 106
antiscalaris, *Voluta* 105, 106
antiscalaris, *Volutilithes* 106
antsemigranulatum, *Cardium* (*Protocardium*) 173
antsemigranulatum, *Cardium* 173
antsemigranulatum, *Nemocardium* 173
antsemigranulatum, *Protocardium* 173
antispinosa, *Athleta* (*Ternivoluta*) *antiscalaris* 106
antispinosa, *Austrovoluta* 106
antispinosa, *Ternivoluta* 106
antispinosus, *Volutilithes* 106
aperturata, *Montfortula* 40
apheles, *Cerithium* 56
apheles, *Jetwoodsia* 56
aphrodina, *Crassatella* 167
apicilirata, *Colina apicilirata* 57
apicilirata, *Peristernia* 101
apicilirata, *Trichotropis* 69
apiciliratus, *Fusinus* (*Microcolus*) 101
apiciliratus, *Microcolus* 101
apiciliratus, *Sirius* 69
apicinus, *Cantharidus* (*Phasianotrochus*) 44
apicinus, *Phasianotrochus* 44
apiculata, *Acteocina* 137
apiculata, *Leda* 145
apiculata, *Nuculana* 145
apiculata, *Retusa* (*Semiretusa*) 137
Apiotoma sp. 123
aporema, *Cuna* 166
approxima, *Pisinna* 65
approximans, *Antizafa* 94
approximans, *Bedeva* 92
approximans, *Columbella* 94
approximans, *Peristernia* 92
aptycha, *Acteocina* 137
aptycha, *Tornatina* 137
arachis, *Cylichna*, 138
arachis, *Mnestia* 138
arachnoidea, *Calyptropsis* 68
arachnoideus, *Calyptropsis* 68
araea, *Gonimyrtea* 169
araea, *Lucina* 169
araneosa, *Epicodakia* 169
araneosa, *Lucina* 169
arata, *Natica* 79
aratula, *Bullinella* 138
aratula, *Cylichna* 138
aratum, *Dentalium* (*Dentalium*) 186
antiquatus, *Hipponix* 58
antiquum, *Vepricardium* 172
antiscalaris, *Athleta* (*Ternivoluta*) *antiscalaris* 106
antiscalaris, *Austrovoluta* 106
aratum, *Dentalium* (*Episiphon*) 186
aratum, *Dentalium* 186
arcacea, *Modiolaria* 152
arcacea, *Musculus arcacea* 152
arcaeformis, *Cardium* 164
archaenepeanensis, *Pleuromeris* 166
archaenepeanensis, *Venericardia* 166
archeri, *Austrocypraea* 74
archeri, *Cypraea* 74
archimedes, *Serratifusus* 97
Architectonica (*Discotectonica*) sp. 135
arcis, *Limatula* (*Limatula*) *trula* 162
arcis, *Limatula trula* 162
arctica, *Saxicava* 182
arena, *Closia* (*Closia*) 113
arena, *Crithe* 113
arena, *Marginella* 113
arenaria, *Attiliosa* 91
arenaria, *Austronucula*? 143
arenaria, *Notoplax* (*Notoplax*) 195
arenicola, *Ostrea* 154
arenicola, *Spondylus* 160
arenicola, *Tasmeuthria*? 97
arenula, *Ovaginella* 115
armata, *Charonia* (*Austrotriton*) 82
armatus, *Triton* 82
armulatus, *Micrelenchus* (*Plumbelenchus*) 45
armulatus, *Micrelenchus* 45
arrugosa, *Manulona* 56
asculpturatus, *Pseudomalaxis* (*Pseudomalaxis*) 135
asculpturatus, *Pseudomalaxis* 135
ashbyi, *Ischnochiton* 191
asper, *Thylacodes* 58
Asperdaphne sp. 129
asperrima, *Chlamys* (*Chlamys*) 158
asperrima, *Mimachlamys* 158
asperrimus [sic], *Chlamys asperrimus* 158
asperrimus, *Chlamys asperrimus* 158
asperrimus, *Pecten* 158
asperulus, *Hexaplex* 88
asperulus, *Murex* (*Muricidea*) 88
asperulus, *Murex* (*Ocinebra*) 88
asperulus, *Ollaphon*? 101
asperulus, *Sipho* 101
asperum, *Granosolarium* 135
asperus, *Heliacus* (*Claraxis*) 135
astartiformis, *Crassatella* 167
aster, *Adeorbis* 49

- aster, Bellastraea* 49
asteriscus, Dermomurex (Viator) 91
asteriscus, Dermomurex 91
asteriscus, Murex (Rhinocantha) 91
Astralium? sp. 48
atkinsoni, Amusium 160
atkinsoni, Ericusa 110
atkinsoni, Lorica 192
atkinsoni, Loricella 192
atkinsoni, Marginella (Eratoidea) 114
atkinsoni, Marginella 114
atkinsoni, Nucula, 143
atkinsoni, Parvamussium 160
atkinsoni, Portlandia 143
atkinsoni, Pronucula 143
atkinsoni, Propeamusium 160
atkinsoni, Protoginella 114
atkinsoni, Protolorica 192
atkinsoni, Turbo 49
atkinsoni, Voluta 110
atoma, Calliostoma 46
atomus, Zizyphinus 46
atractoides, Conorbis 124
atractoides, Conus (Conorbis) 124
atractoides, Microvoluta 87
atractoides, Mitra (Cancilla) 87
atractoides, Proximitra 87
atractoides, Proximitra atractoides 87
attenuata, Aturia clarkei 189
aturi, Aturia 189
Aturia sp. 189
atypha, Microvoluta? 87
atypha, Mitra (Strigatella) 87
atypha, Volutomitra 87
atypica, Limacina 139
atypicus, Heliconoides 139
aulacoessa, Eburnopsis 102
auratum, Bembicium 58
aurita, Limopsis 150
australasia, Australaria 100
australasia, Pleuroploca 100
australasia, Ranella 84
australasiae, Barnea 183
australasiae, Pholas 183
australe, Dentalium (Fustiaria) 187
australe, Dentalium (Laevidentalium) 187
australe, Laevidentalium 187
australe, Umbraculum 137
australia, Lahillia 173
australia, Pholadomya 184
australiensis, Umbrella 137
australis, Aturia 189
australis, Aturia aturi 189
australis, Aturia ziczac 189
australis, Brechites (Brechites) 184
australis, Brechites 184
australis, Colpospira (Ctenocolpus) 52
australis, Colpospira 52
australis, Dentalium 187
australis, Erato (Proterato) 71
australis, Erato 71
australis, Fusinus 100
australis, Hiatella 182
australis, Hipponyx 58
australis, Mactra 176
australis, Mitra (Eumitra) 86
australis, Myadora 184
australis, Otopleura 142
australis, Phasianella 50
australis, Propefusus australis 100
australis, Proterato (Proterato) 71
australis, Proterato 71
australis, Saxicava 182
australis, Strigilla 174
australis, Tenagodus 54
australis, Turriplificifer 86
australis, Zemira 102
austranaxa, Sarepta 146
austrina, Limea (Gemellima) 162
austrina, Limea (Gemellima) sp. cf. L. (G.) 162
austrina, Limea 162
austroconica Bolma 49
Austrotriton sp. 82, 83
avellanoides, Cypraea (Trivia) 72
avellanoides, Nototrivia 72
avellanoides, Trivellona 72
avellanoides, Trivia (Trivirostra) 72
avellanoides, Trivia 72
axiniformis, Mactra 176
babidus, Lepidopleurus 190
babidus, Leptochiton 190
babidus, Terenochiton 190
baccatus, Euchelus 42
baconi, Siphonaria (Hubendickula) 143
badioides, Lepidopleurus 190
badioides, Leptochiton 190
badioides, Terenochiton 190
badioriva, Talochlamys 157
baileyana, Spondylus 160
bairdii, Eudolium 84
bakeri, Deltoidonautilus 189
balcombei, Modiolaria 152
balcombei, Musculus 152
balcombense, Austrotriton 82

- balcombensis*, *Acanthochiton* 194
balcombensis, *Acanthochitona* 194
balcombensis, *Antizafa* 94
balcombensis, *Apiotoma* 123
balcombensis, *Architectonica* (*Discotectonica*) 135
balcombensis, *Architectonica*, 135
balcombensis, *Asperdaphne* 129
balcombensis, *Calliostoma* 46
balcombensis, *Chevallieria* 65
balcombensis, *Columbella* 94
balcombensis, *Diplodonta* 175
balcombensis, *Discotectonica* 135
balcombensis, *Guraleus* (*Paraguraleus*) 127
balcombensis, *Laetifautor* 46
balcombensis, *Maoritomella* 121
balcombensis, *Notopeplum* 112
balcombensis, *Paraguraleus*, 127
balcombensis, *Teleochilus* 130
balcombensis, *Nautilus* 188
balcombiana, *Acremodontina* 41
balcombica, *Callucinella* 168
balcombica, *Eschatocypraea* 75
balcombica, *Lucina* 168
balloti, *Amusium* 159
balloti, *Ylistrum* 159
balteata, *Borsonia* 121
balteatella, *Conuber* 78
balteatella, *Natica* 78
balteatella, *Polinices* (*Conuber*) 78
bartoni, *Zeacolpus* 53
basedowi, *Hadriana* 92
basedowi, *Macoma* 174
basedowi, *Pseudoarcopagia* 174
basedowi, *Tellina* (*Pseudoarcopagia*) 174
basedowi, *Tellina* 174
basedowi, *Trophon*? 92
basicinctus, *Chicoreus* (*Triplex*) 89
basicinctus, *Chicoreus* 89
basicinctus, *Murex* (*Chicoreus*) 89
basicinctus, *Murex* 89
basinodosa, *Scalaria* (*Nodiscala*) 63
basinodosum, *Epitonium* 63
bassi, *Apiotoma* 123
bassi, *Argobuccinum* (*Argobuccinum*) 83
bassi, *Argobuccinum* 83
bassi, *Austrotriton* 83
bassi, *Lima* (*Lima*) 161
bassi, *Perotrochus* 38
bassi, *Pleurotomaria* 38
bassiana, *Rissoa* (*Onoba*) 45
bassianus, *Botelloides bassianus* 45
bassii, *Lima* 161
beachportensis, *Ennucula* 144
beachportensis, *Nucula* (*Ennucula*) 144
beaumariensis, *Limopsis* 150
Bedeva sp. 92
bednalli, *Dentalium* (*Dentalium*) 186
bednalli, *Neotrigonia* 163
belcheri, *Limopsis* 150
bellissima, *Carditellopsis*, 166
bernardi, *Cosa* 151
bernardi, *Philobrya* 151
biaulax, *Ataxocerithium*, 59
bicarinata, *Styliola* 140
bicarinata, *Vaginella* 140
bicarinatum, *Calliostoma* (*Laetifautor*) 47
bicarinatus, *Laetifautor* 47
biconicus, *Hexaplex* (*Murexsul*) 88
biconicus, *Hexaplex* 88
biconicus, *Murex* (*Ocinebra*) 88
bicrassiplicata, *Serrata* 114
bicrassiplicata, *Stromboginella* 114
bicurvata, *Eulima* 67
bicurvata, *Melanella* 67
bidens, *Clathurella* 122
bidens, *Etrema* 122
bidens, *Mangelia* 122
bidenticulatum, *Ataxocerithium* 59
bifrons *Dentalium*? 186
bifrons, *Antalis* 186
bifrons, *Dentalium* (*Antalis*) 186
bifrons, *Equichlamys* 155
bifrons, *Murex* (*Pteronotus*) 90
bifrons, *Pterynotus* (*P.*) 90
bifrons, *Timbellus* 90
biornata, *Mitra* (*Costellaria*) 86
biornatum, *Dolium* 84
biornatum, *Vexillum* (*Costellaria*) 86
biornatum, *Vexillum* 86
biradiata, *Hiatula* 175
biradiata, *Sanguinolaria* (*Psammotellina*) 175
bisculpta, *Veruturris* 134
bisculptus, *Xenuroturris* (*Veruturris*) 134
bivaricata, *Batillaria* (*Zeacumantus*) 54
bivaricatus, *Clypeomorus* 54
bivaricatus, *Zeacumantus* 54
blaxlandi, *Calliostoma* 46
blaxlandii, *Zizyphinus* 46
Bonellitia? sp. 117
Borniola? sp. 171
botanica, *Bulla* 137
Botelloides sp. 45
bovarius, *Serratifusus* 96
brachypyga, *Cypraea* 75

- brachypyga*, *Notoluponia* 75
brachypyga, *Notoluponia brachypyga* 75
brachyryncha, *Comitileda* sp. cf. C. 144
brachyrynchoides, *Comitileda* 144
brazieri, *Hydrococcus* 64
brevicaudalis, *Austroclavus* 131
brevicaudatus, *Cantharus* 98
brevicaudatus, *Trophon* 98
breviplicata, *Gisortia* 77
breviplicata, *Umbilia (Palliocypraea)* 77
brevis, *Cantharus* 98
brevis, *Cypraea (Aricia) eximia* var. 76
brevis, *Lithodomus* 152
brevis, *Lithophaga* 152
brevis, *Myadora*, 185
brevis, *Pisania* 98
brevis, *Umbilia (Umbilia) brevis* 76
brevispina, *Plicatula* 160
brevispira, *Voluta strophodon* var. 108
brevitergum, *Ennucula* 144
brevitergum, *Nucula* 144
Brocchitas? sp. 99
brunnschweileri, *Aturoidea* 189
buicki, *Notoplax* 195
bulbodes, *Austrolithes* 101
bulbodes, *Clavella* 101
bulbodes, *Fusus* 101
bulbulifera, *Punctiscala* 62
bulbulifera, *Scalaria (Punctiscala)* 62
bullaeformis, *Sphaerocypraea* 78
bullaeformis, *Damoniella* 139
bullaeformis, *Gaskoinia* 78
bullaeformis, *Roxania* 139
bullaeformis, *Roxania?* 139
bullariformis, *Priscaphander* 139
bungae, *Athleta (Ternivoluta)* 106
bungae, *Ternivoluta*, 106
burni, *Berthelinia* 143
butleri, *Ampullina* 51
bystromphalata, *Bathymophila?* 42
cadella, *Lyncina (Austrocypraea)* 75
cadella, *Nannamoria* 109
caducocincta, *Mesoginella* sp. cf. M. 115
caducocincta, *Volvarina (Sinuginella)* sp. cf. V. (S.) 115
caelatus, *Pseudexomilus* 126
caepa, *Umbilia* 77
cainozoica, *Barbatia (Plagiarca)* 147
cainozoica, *Chione* 177
cainozoica, *Columbella* 93
cainozoica, *Cucullaea* 148
cainozoica, *Dosina (Hina)* 177
cainozoica, *Glycymeris* 148
cainozoica, *Glycymeris* sp. cf. G. 148
cainozoica, *Marama (Hina)* 177
cainozoica, *Montfortula* 39
cainozoica, *Tellina* 173
cainozoica, *Venus (Chione)* 177
cainozoicus, *Macrodon* 147
cainozoicus, *Notogrammatodon* 147
cainozoicus, *Pectunculus* 148
calcaratum, *Columbarium* 85
calcaria, *Colpospira (Colpospira)* 52
calcaria, *Colpospira* 52
Calliostoma sp. 46
callosa, *Cylichnella*, 138
calva *Leucorhynchia* 48
calva *Teinostoma* 48
calva, *Cardita*, 165
calva, *Vimentum* 165
calvulata, *Cancellaphera* 117
calvulata, *Cancellaria* 117
calvus, *Murex (Pteronotus)* 90
calvus, *Pterynotus (P.)* 90
calvus, *Timbellus* 90
calyptraeformis, *Calyptraea (Sigapatella)* 68
calyptraeformis, *Sigapatella* 68
calyptraeformis, *Trochita* 67
caminata, *Altrix* 39
caminata, *Puncturella (Altrix)* 39
Campanile sp. 51
campestris, *Zoila* 74
camplytropis, *Hexaplex* 88
camplytropis, *Murex (Ocinebra)* 88
camura, *Eucrassatella* 167
camurus, *Crassatellites* 167
canaliculata, *Belloliva* 102
canaligradata, *Retusa (Semiretusa)* 138
canaligradata, *Semiretusa*, 138
Cancellaria (Charcolleria) sp. 117
cancellata, *Belophos* 131
cancellata, *Cominella* 131
caperata, *Cancellaria* 116
caperata, *Inglisella* 116
capillata, *Cancellaria (Narona)* 116
capillata, *Cancellaria* 116
capillata, *Inglisella* 116
capillatus, *Semivertagus* 57
capitata, *Liotella* 48
capitata, *Voluta capitata* 110
capitonica, *Notovoluta* 107
capricornia, *Venericardia* 166
capulopsis, *Arca* 146
Carinastele? sp. 47

- carinatus*, *Solutofusus* 101
cariosus, *Ischnochiton* (*Heterozona*) 191
carteri, *Serripecten* 157
Caryocorbula sp. 182
casa, *Acanthochitona* 194
cassida, *Marginella*, 115
cassida, *Mitra* (*Pusio*) 87
cassida, *Peculator* 87
cassidiformis, *Marginella* (*Faba*) 115
cassidiformis, *Marginella* 115
cassidiformis, *Mesoginella* 115
cassidiformis, *Urniginella* 115
cassinoides, *Austroharpa* (*Palamharpa*) 105
cassinoides, *Austroharpa* 105
cassinoides, *Harpa* (*Austroharpa*) 105
cassinoides, *Harpa* 105
casus, *Acanthochiton* 194
catenifera, *Gemmaterebra* 120
catenifera, *Terebra* 120
cathedralis, *Notovoluta* 107
cathedralis, *Scaphella* (*Eopsephia*) 107
cathedralis, *Voluta* 107
celleporacea, *Acar* 147
celleporacea, *Arca* (*Barbatia*) 147
celleporacea, *Barbatia* (*Acar*) 147
celleporacea, *Barbatia* 147
cera, *Umbilia* 76
Cerithidea? sp. 57
Cerithiella sp. 59
Cerithiid gen. et sp. indet 57
Cerithiid sp. 57
Cerithiopsid sp. 1 60
Cerithiopsid sp. 2 60
Cerithiopsis? sp. 60
Chama sp. 175
chapmani, *Hemidonax* 176
chapmani, *Acanthochiton* 194
chapmani, *Acanthochitona* 194
chapmani, *Fragum* 164
chapmani, *Limopsis* 150
chapmani, *Nuculana* (*Sacella*) 145
chapmani, *Nuculana* 145
chapmani, *Sacella* 145
chapplei, *Apiotoma* 123
chapplei, *Daphnella* 130
chapplei, *Guraleus* (*Guraleus*) 126
chapplei, *Guraleus* 126
charma, *Alaginella* 114
charma, *Marginella* 114
charma, *Serrata* 114
chavani, *Hartungia*, *dennanti* 64
chavani, *Janthina* 64
chavani, *Monitilora* (*Prophetilora*) 169
chavani, *Prophetilora* 169
cheilostoma, *Merelina* 66
chierchiae, *Creseis* cf. 140
chlorostoma, *Odontotrochus* 44
chlorostoma, *Thalotia* (*Odontotrochus*) 44
chrysalida, *Epigrus* 45
chrysalida, *Rissoa* (*Onoba*) 45
chrysalidus, *Amphithalamus* (*Pisinna*) 45
chrysalidus, *Botelloides chrysalidus* 45
cicatricosa, *Tugali* 40
cincturata, *Lissarca* 151
cinctuta, *Nannamoria* 109
cingulata, *Dennantia* 99
cingulata, *Dolicholatirus* 93
cingulata, *Latirofusus* 93
circinata, *Syntomodrillia* 125
circinatus, *Capulus* (*Capulus*) 68
circinatus, *Capulus* 68
Circulus sp. 64
citharella, *Cumia* 95
citharelloides, *Austromitra* 85
citharelloides, *Mitra* (*Costellaria*) 85
citharelloides, *Mitra* 85
citharelloides, *Vexithara* 85
citharellus, *Epidromus* 95
Clanculus (*Paraclanculus*) sp. 43
Clanculus sp. 43
clarae, *Comitas* (*Carinocomitas*) 128
clarae, *Comitas* 128
clarae, *Pleurotoma* 128
clarkei, *Aturia* 189
clarkei, *Aturia* cf. A. 189
clarkei, *Gibula*[sic] 44
clarkei, *Notogibbula* 44
clarki, *Cymatiella* 83
clarki, *Personella* 83
clathrata, (*Palamharpa*) *Austroharpa* 104
clathrata, *Austroharpa* 104
clathrata, *Belatomina* 131
clathrata, *Cypraea* (*Cypraeidia*)[sic] 77
clathrata, *Cypraeda* 77
clathrata, *Harpa* 104
clathrata, *Pelicaria* 70
clathurella, *Mitra* (*Costellaria*) 87
clathurella, *Peculator* 87
clathurella, *Proximitra* (*Parvimitra*) 87
clelandi, *Cominella* 95
cliftonensis, *Ischnochiton* (*Radsella*) 196
cliftonensis, *Lavenachiton* 196
cliftonensis, *Notosepia* 190
clima, *Gibberula* 115

- clima*, *Marginella* 115
clima, *Mesoginella* 115
clima, *Volvarina* (*Sinuginella*) 115
Clio? sp. 140
clisia, *Marginella* 115
clisia, *Mesoginella* 115
clydoniatus, *Serratifusus* 97
coarctata, *Mitra* 113
coarctatus?, *Pecten* 158
coarctatus, *Pecten* 158
coarctatus, *Pecten* 158
Cocculina? sp. 41
cochleata, *Veruturris* 134
cochleatum, *Columbarium* 85
cochleatus, *Fusus* 85
cochleatus, *Xenuroturris* (*Veruturris*) 134
Cochlespira sp. 123
Codakia? sp. 170
cognata, *Antigona* (*Antigona*) 178
cognata, *Antigona* (*Proxichione*) 178
cognata, *Chione* 178
cognata, *Proxichione* 178
cognata, *Proxichione* sp. cf. *P.* 178
columbelloides, *Daphnella*, 133
columbelloides, *Rugobela* 133
columellaris, *Ellatrivia* 73
columellaris, *Niveria* (*Ellatrivia*) 73
coma, *Acar* 147
cominelloides, *Cominella*, 95
cominelloides, *Phos* 95
Comitas? sp. 128
communis, *Crassatella* 167
communis, *Salaputium* 167
compacta, *Cardita* 165
compacta, *Scalaricardita* 165
complanata, *Microvoluta* 87
complanata, *Microvoluta* cf. *M.* 87
complanata, *Mitra* (*Strigatella*) 87
complanata, *Waimatea*
complexa *Myadora* 185
complexa, *Syntomodrillia* 125
complicatus, *Conus* 119
compressa, *Aulacochiton* 192
compressa, *Lorica* 192
compressus, *Conus* (*Floraconus*) 119
compressus, *Conus*, 119
compta, *Cardita* 164
compta, *Mytilicardia* 164
compta, *Syntomodrillia* 125
comptus, *Teleochilus* 130
concamerata, *Diloma* (*Fractarmilla*) 44
concamerata, *Diloma* 44
concatenata, *Megatebennus* 40
concatenatum, *Ataxocerithium* 59
concava, *Loricella* 193
concentrica, *Plaxiphora* 196
concinna, *Australaria* 100
concinna, *Fasciolaria* 100
conferta, *Vermicularia*, *funicalis* 54
confirmans, *Cancellaphera* 117
confirmans, *Eomiltha* (*Gibbolucina*) 170
confirmans, *Gibbolucina* 170
conica, *Sabia* 58
conica, *Thalotia* (*Thalotia*) 44
conica, *Thalotia* 44
conicus (*Conuber*) *Polinices* 78,
conicus, *Conuber* 78
conicus, *Hipponix* (*Sabia*) 58
connudata, *Livonia mortoni* 111
connudata, *Livonia*, 111
conohelix, *Vermetus* 58
conoidalis, *Mitra* (*Pusio*) 87
conoidalis, *Peculator* 87
conoidalis, *Waimatea* 87
conoidea, *Voluta* (*Volutoconus*) 109
conoidea, *Voluta* 109
conoideus, *Volutoconus* 109
Conorbis sp. 124
conospira *Cordieria* 133
consobrina, *Chlamys* (*Equichlamys*) 155
consobrina, *Cypraea* (*Aricia*) 73
consobrina, *Zoila* (*Zoila*) 73
consobrina, *Zoila* 73
consobrinus, *Clanculus* (*Mesoclanculus*) 43
consobrinus, *Clanculus* 43
consobrinus, *Pecten* 155
conspicabilis, *Colpospira* (*Colpospira*) 52
conspicabilis, *Colpospira* 52
conspicabilis, *Turritella* 52
conspicua, *Turris* 122
conspicua, *Zemacies* 122
constricta, *Austrocochlea* 42
constricta, *Austrocypraea* 74
constricta, *Ellatrivia* 73
constricta, *Graphis* 134
constricta, *Monodonta* (*Austrocochlea*) 42
constricta, *Niveria* (*Ellatrivia*) 73
constricta, *Turbonilla* 134
consutilis, *Arca* (*Barbatia*) 146
consutilis, *Barbatia* 146
consutilis, *Mauidrillia* 126
consutilis, *Pleurotoma* 126
contigua, *Asperdaphne* 129
contigua, *Etrempsopsis* 123

- contrainflatum*, *Mesopeplum*? 159
contusa, *Austrocypraea* 74
contusa, *Cypraea* (*Austrocypraea*) 74
contusa, *Cypraea* (*Luponia*) 74
contusa, *Cypraea* 74
contusus, *Cassis* 80
Conus (*Floraconus*) sp. 119
Conus sp. 119
Conus? sp. 118
convexa, *Glycymeris* (*Tucetona*) 149
convexa, *Tucetona*, 149
convexiuscula, *Duplicaria* 120
convexiuscula, *Terebra*, 120
convexus, *Conus* (*Leptoconus*) 119
convexus, *Conus* 119
convexus, *Pectunculus* 149
coquinacola, *Kendrickiana* 184
Coralliophila sp. 88
Corbicula? sp. 181
cordata *Atrina* (*Servatrina*) 153,
cordata, *Atrina* 153
cordata, *Pinna* 153
Cordieria sp. 121
Cordieria? sp. 121
Cordieria? sp. a 121
Cordieria? sp. b 121
corioensis, *Austrohinnites* 155
corioensis, *Chione* 180
corioensis, *Cucullaea* 147
corioensis, *Hinnites* 155
corioensis, *Katylisia* 180
corioensis, *Modiolaria* 152
corioensis, *Musculus* 152
corioensis, *Salaputium* 167
cornuspira, *Cyclostrema* 134
cornuspira, *Microdiscula* 134
coronata, *Mitra* 87
coronata, *Pellicaria* 70
coronata, *Struthiolaria* (*Pellicaria*) 70
coronata, *Tylospira* 70
corpulenta, *Marginella* (*Eratoidea*) 114
corpulenta, *Marginella* 114
corpulenta, *Protoginella* 114
corrugata, *Calyptrea* 67
corrugata, *Crassatella* 167
corrugata, *Myadora* 185
Cosmasyrinx sp. 132
cossmanni, *Basilissa* 41
cossmanni, *Calliobasis* 41
cossmanni, *Hemiconus* 118
cossyus, *Ischnochiton* 191
costata, *Peristernia murrayana* var. 97
costata, *Trichotropis* 69
costata, *Tudicula* 85
costatum [sic], *Nannamoria* 109
costatum, *Tudivasum* 85
costatus, *Sirius* 69
costellifera, *Amoria* 108
costellifera, *Nannamoria* 108
costellifera, *Voluta* 108
coxi, *Aturia* 189
coxi, *Eumitra* 104
coxi, *Mitra* (*Eumitra*) 104
coxi, *Mitra* (*Mitra*) 104
coxi, *Mitraria* (*Eumitra*) 104
coxi, *Retusa* (*Semiretusa*) 138
coxi, *Semiretusa* 138
crama, *Tucetona* 149
craspedotus, *Fusus* 96
craspedotus, *Serratifusus* 96
crassa, *Calyptrea* (*Sigapatella*) 67
crassa, *Calyptrea* 67
crassa, *Chamostrea* 184
crassa, *Cleidothaerus* 184
crassa, *Litigiella* 170
crassa, *Natica subinfundibulum* var. 78, 80
crassa, *Nuculana* 145
crassa, *Scaeoleda* 145
crassa, *Sigapatella* 67
crassa, *Terebra* 119
crassiaulatus, *Austrofusus*? 95
crassicardia, *Meleagrina* 153
crassicardia, *Pinctada* 153
crassicardia, *Pteria* 153
crassicardia?, *Margaritifera* 153
crassicosta, *Haurakia* 66
crassicostata, *Ellatrivia* 73
crassicostata, *Ellatrivia longisulcata* 73
crassicostata, *Lyria mitraeformis* 106
crassicostatus, *Triton* 82
crassidens, *Marginella* 114
crassidens, *Stromboginella* 114
crassigranosa, *Bolma* 49
crassigranosa, *Gibbula* 49
crassigranosa, *Nassa* (*Phrontis*) 98
crassigranosa, *Nassa* 98
crassigranosa, *Nassarius* (*Niotha*) 98
crassigranosa, *Nassarius* 98
crassilabrum, *Ericusa* 107
crassilabrum, *Leptoscapa* 107
crassilabrum, *Voluta* 107
crassilirata, *Bela* 132
crassilirata, *Cardiolucina* 168
crassilirata, *Daphnella* 132

- crassilirata*, *Linga* (*Bellucina*) 168
crassilirata, *Liratomina* 132
crassiliratus, *Murex* (*Ocenebra*) 89
crassiliratus, *Pygmaeptyrys* 89
crassiliratus, *Trophon* (*Enatimene*) 99
crassina, *Cominella* 95
crassior, *Gonimyrtea* 169
crassiplicata, *Bedevea* 88
crassiplicata, *Coralliophila* 88
crassiplicata, *Widningia* 88
crassireticulata, *Tugali* 40
crassireticulata, *Tugalia* 40
crassistriatus, *Delectopecten* 155
crassulnata, “*Thais*” 92
crassum, *Duplicaria* 119
crassum, *Lepton* 171
crassum, *Strioterebrum* (*Pervicacia*) 119
cratericulus, *Thylacodes* 58
craticula, *Athleta* (*Ternivoluta*) *anticingulata* 105
craticula, *Ternivoluta* 105
craticulata, *Lyria* 106
crebrecostata, *Leda* 145
crebrecostata, *Nuculana* (*Scaeoleda*) 145
crebrecostata, *Scaeoleda* 145
crebrecostatus, *Aesopus*? 94
crebrecostatus, *Turricolumbus* 94
crebrelamellata, *Acrilla* 62
crebrelamellata, *Scalaria* (*Acrilla*) 62
crebrelamellatum, *Epitonium* 62
crebresquamata, *Antarctolima* 162
crebresquamata, *Lima* (*Limatula*) 162
crebresquamata, *Limatula* (*Squamilima*) 162
crebresquamata, *Limatula* 162
crebricostatus[sic], *Anachis* (*Turricolumbus*) 94
crebrigranosa, *Dennantia* 99
crebrigranosus, *Sipho* 99
crebrigranosus, *Tritonofusus* 99
crebrinodulosum, *Calliostoma* (*Laetifautor*) 47
crebrinodulosus, *Laetifautor* 47
crenularoides, *Comitas* 128
crenularoides, *Drillia* 128
crepiduloides, *Rimula*? 39
cretaceous, *Dermomurex* (*Takia*) 91
cretaceous, *Dermomurex* 91
cribarioides, *Cerithiella* 59
cribarioides, *Cerithium* 59
cribrosa *Spinomelon* 109
cribrosa, “*Sassia*” 82
cribrosa, *Alcithoe* (*Waihaoia*) 109
cribrosa, *Austrosassia* 82
cribrosa, *Voluta* 109
cribrosus, *Triton* 82
crista, *Dentimargo* 115
crista, *Marginella* (*Eratoidea*) 115
crista, *Marginella* 115
cristata, *Australaria* 100
cristata, *Fasciolaria* 100
crucis, *Amblychilepas* 40
crustata, *Acar* 147
crustata, *Arca* (*Barbatia*) 147
crustata, *Barbatia* (*Acar*) 147
crustata, *Barbatia* 147
cryptoploca, *Australaria* 100
cryptoploca, *Fasciolaria* 100
cubaensis, *Aturia* 189
cuculloides, *Cardium* 172
cuculloides, *Cardium*? 172
cudmorei, *Afossochiton* 194
cudmorei, *Aulacochiton* 192
cudmorei, *Cellana* 38
cudmorei, *Comitas* 128
cudmorei, *Comitas wynyardensis* 128
cudmorei, *Lorica* 192
cudmorei, *Notocallista* (*Striacallista*) 179
cultrata, *Neilo* (*Australoneilo*) 146
cumingi, *Divalucina* 170
cuneata, *Amesodesma* 177
cuneata, *Atactodea* 177
cuneata, *Jouannetia* 183
cuneopsis, *Bullinella* 138
cuneopsis, *Cylichna* 138
cunninghamensis, *Conuber* 78
cunninghamensis, *Polinices*? (*Conuber*) 78
cunninghamensis, *Natica* 78
cunninghamensis, *Polinices* (*Conuber*) 78
curlwisensis, *Solutofusus* 101
currongae, *Turbonilla* (*Chemnitzia*) 142
currongae, *Turbonilla* 142
curryi, *Heliconoides* 139
curryi, *Limacina* 139
curta *Spirulirostra* 189
curta, *Mytilocardia* 164
curta, *Rotundicardia* 164
curtansata, *Mipus* 88
curtansata, *Vitularia* 88
Curveulima? sp. 67
curvicostata, *Athleta* (*Ternivoluta*) 105
curvicostata, *Ternivoluta* 105
Cuspidaria sp. 185
cuspidata, *Daphnella* 130
cuspidatus, *Conus* (*Lithoconus*) 119
cuspidatus, *Conus* 119
cuspidatus, *Guraleus* 130
cycladea, *Anapella* 177

- cyclobates, Haliotis (Exohaliotis)* 39
cyclobates, Haliotis 39
Cyclocardia (Vimentum)? sp. 165
cygnorum, Acrosterigma (Regozara) 172
cygnorum, Acrosterigma 172
Cylichnania sp. 138
cylindracea, Acrilla 62
cylindracea, Cingula (Pelecydium) 65
cylindracea, Scalaria (Acrilla) 62
cylindraceus, Epigrus 65
Cymatiella sp. 84
Cymatiella? sp. 84
cymbula, Anomia (Anomia) sp. cf. A. (A.) 161
cymbula, Anomia 161
cymbula, Anomia sp. cf. A. (A.) 161
cyphum, Austrotriton 82
cyphum, Tritonium (Austrotriton) 82
cyphus, Lotorium 82
cyphus, Triton 82
Cypraea (Zoila) sp. 74
cyrta, Merelina 66
danae, Eulima (Margineulima) 66
danae, Eulima 66
danieli, Capulus 68
daphnelloides, Mitra 127
daphnelloides, Mitrithara 127
daphnelloides, Mitromorpha 127
daphnes, Nototrivia avellanoides 72
daphnes, Trivellona 72
darraghi, Bolma (Bolma) flindersi 48
darraghi, Bolma flindersi 48
darraghi, Botelloides bassianus 45
darraghi, Chavanicerithium 56
darraghi, Cylichnatys 139
darraghi, Dermomurex (Viator) 91
darraghi, Dermomurex 91
darraghi, Haustellum multiplicatus 89
darraghi, Heliacus (Torinista) 135
darraghi, Heliacus 135
darraghi, Johannaia 132
darraghi, Murex (Haustellum?) 88
darraghi, Notocypraea 76
darraghi, Thericium (Chavanicerithium) 56
darraghi, Trivellona 72
darraghi, Vokesimurex multiplicatus 89
darryli, Umbilia 76
dauciformis, Inella 61
decemcostata, Austrodrillia 125
decemcostata, Syntomodrillia 125
decipiens, Fasciolaria 100
decomposita, Bathytoma 120
decomposita, Genotia, 120
decompositus, Micantapex 120
decorata, Mathilda 134
decurrens, Glycymeris (Tucetona) 150
decurrens, Glycymeris 150
decurrens, Tucetona 150
deformis, Pecten 155
Delectopecten sp. 155
delicatissima, Emarginula 39
delicatula, Cardita 164
delicatula, Rotundicardia 164
delicatulus, Inquisitor 129
delicatulus, Pseudinquisitor 129
deltoides, Eucrassatella 167
dendus, Afossochiton (Telochiton) 194
dendus, Afossochiton 194
dendus, Telochiton 194
dennanti, Plicatula 160
dennanti, Acrybia (Heligmope) 63
dennanti, Antigona 181
dennanti, Cardita 165
dennanti, Chicoreus (Triplex) 89
dennanti, Chicoreus 89
dennanti, Chioneryx 181
dennanti, Chlamys asperrimus 158
dennanti, Conomitra 104
dennanti, Conus (Lithoconus) 118
dennanti, Conus 118
dennanti, Crassatella 166
dennanti, Dibaphimitra 104
dennanti, Emarginula 39
dennanti, Glans 165
dennanti, Hartungia 63
dennanti, Hartungia dennanti 63
dennanti, Heligmope 63
dennanti, Landinia 166
dennanti, Liotia 47
dennanti, Miltha 169
dennanti, Miltha flindersiana 169
dennanti, Mitra (Dibaphimitra) 104
dennanti, Mitra (Eumitra) 104
dennanti, Munditia 47
dennanti, Murex (Chicoreus) 89
dennanti, Murex (Euphyllon) 89
dennanti, Phasianella 50
dennanti, Plesiotriton 117
dennanti, Semitriton 117
dennanti, Solecurtus 175
dennanti, Venericardia spinulosa var. 165
denotata, Kaurnella 50
denotatis, Antalis 186
denotatum, Dentalium (Antalis) 186
denseliratus, Teleochilus 130

- densilineata*, *Dosinia* (*Kereia*) 179
densilineata, *Dosinia* 179
Dentalium? sp. 186
dentata, *Lucina* 170
denticostatus, *Laevitrombus* 70
denticostatus, *Strombus* 70
denticulata, *Turrinosyrinx* 134
deperditus, *Mytilus* 151
deplexa, *Nannamoria* 109
deplexa, *Odostomia* 141
depressa, *beaumariensis* *Limopsis* 151
depressa, *Donax* 174
depressa, *Plebidonax* 174
depressa, *Vaginella* 140
depressispira, *Cyclostrema* 48
depressispira, *Partubiola* 48
depressispira, *Tubiola* (*Partubiola*) 48
depressula, *Teinostoma* 64
depressulata, *Rotundocardia* 165
depressulata, *Venericardia* 165
depressulum, *Teinostoma* 64
Dermomurex sp. 91
despectans, *Epicodakia* 169
despectans, *Lucina* 169
detrita, *Pseudoarcopagia* 174
detritus, *Inquisitor* 129
dichotomalis, *Dichotochlamys* 155
dichotomalis, *Pecten* 155
dictua, *Chione* 181
dictua, *Eumitra* 104
dictua, *Mitra* (*Eumitra*) 104
dictua, *Mitra* 104
dictua, *Tawera* 181
dictyotis, *Fusinus* (*Fusinus*) 101
dictyotis, *Fusus* 101
dictyotis, *Lepidocolus* 101
didactica, *Emarginula* 39
diductua, *Eumitra* 104
diductua, *Mitra* (*Eumitra*) 104
diductua, *Mitra* 104
diductua, *Mitraria* (*Eumitra*) 104
didymorhyncha, *Zoila* 73
didymus, *Murex* (*Pteronotus*) 90
didymus, *Timbellus* 90
diemenensis, *Batillaria* (*Zeacumantus*) 54
diemenensis, *Zeacumantus* 54
differta, *Notovolva* 108
dilatata, *Heliconoides?* 139
dilatata, *Limacina?* 139
dilatatoria, *Emarginula* 39
dilectoides, *Pleurotoma* (*Drillia*) 122
dilectoides, *Tomopleura* 122
dilwyni, *Volutomitra* (*Waimatea*) 87
dilwyni, *Volutomitra* 87
dimorphophylla, *Chione* (*Timoclea*) 178
dimorphophylla, *Chione* 178
dimorphophylla, *Proxichione* 178
Dimya sp. 160
Discotectonica sp. 135
disjuncta, *Typhina* 93
disjunctus, *Typhis* (*Typhina*) 93
disjunctus, *Typhis* 93
disrupta, *Notocallista* (*Notocallista*) 178
dissimilis, *Arca* (*Fossularca*) 148
dissimilis, *Arcopsis* 148
dissimilis, *Barbatia* 148
dissimilis, *Dimya* 161
dissimilis, *Quadrilatera* 148
dissimulina, *Arca* (*Barbatia*) 147
dissitus, *Latiaxis* 88
dissitus, *Vitularia* 88
distans, *Aturoidea* 189
distinguendus, *Actaeon* 136
distinguendus, *Acteon* 136
divergens, *Mesopeplum* 159
diversigranosus, *Lepidopleurus* 190
diversigranosus, *Leptochiton* 190
diversigranosus, *Terenochiton* 190
dixoni, *Donax* 176
dixoni, *Hemidonax* 176
dixoni, *Hemidonax* sp. cf. *H.* 176
dolabraeformis, *Anatina* 183
dolabraeformis, *Laternula* 183
dolicha, *Acrilla* 62
dolicha, *Scalaria* (*Hemiacirsa*) 62
dolichorhyncha, *Zoila* 73
doma, *Closia* (*Closia*) 113
doma, *Gibberula* 113
doma, *Marginella* 113
doma, *Vetaginella* 113
donacina, *Eucrassatella* 168
dorsata, *Cypraea* 74
dorsennata, *Eucrassatella* 167
Dosinia (*Austrodosinia*) sp. 180
druna, *Acanthochitona* 194
drunus, *Acanthochiton* 194
dubia, *Rissoa?* 65
dubitabilis, *Crepidula* (*Zeacrypta*) 68
dubitabilis, *Crepidula* 68
dubitabilis, *Maoricrypta* 68
dubitabilis, *Pisinna* 65
dumetosus, *Fusus* 100
dumetosus, *Propefus* 100
duniana, *Lorica* 192

- dunkeri*, *Microcolus* 101
duodeni, *Anthochiton* 193
duodeni, *Chiton (Rhyssoflax)* 193
duodeni, *Rhyssoflax* 193
duplicata, *Archierato* 71
duplicata, *Erato (Erato)* 71
duplicata, *Erato* 71
duplicatum, *Scrinium*, 128
duplicatus, *Teleochilus* 130
durius, *Ischnochiton* 191
eburnea, *Cominella* 96
eburnea, *Cytherea* 179
eburnea, *Meretrix* 179
eburnea, *Notocallista (Fossacallista)* 179
eburneus, *Dissochilus* 64
echinatum, *Columbarium* 85
echinatum, *Columbarium acanthostephes* 85
echinophora, *Scalaria (Crisposcala)* 63
echinophorum, *Epitonium* 63
edithburgensis, *Dosinia (Phacosoma)* 180
editus, *Optoturris* 133
effusa, *Ampullina* 51
effusa, *Euspirocrommium* 51
egregia, *Ponticypraea* 77
Elachisina sp. 64
elata, *Syrnola* 141
elata, *Tugali* 40
elata, *Tugalia* 40
elatus, *Isapsis* 141
Electroma sp. 154
elegans, *Etrema* sp. cf. *E.* 123
elegantior, *Notoluponia* 75
elegantior, *Notoluponia murraviana* 75
elegantula, *Martesia* 183
elegantula, *Rissoina* 66
eliana, *Lima* 161
eligmostoma, *Vaginella*, 140
elimattae, *Onoba* 66
elimattae, *Turboella* 66
ellipsoidea, *Ericusa (Ericusa)* 107
ellipsoidea, *Ericusa* 107
ellipsoidea, *Notovoluta* 107
ellipsoidea, *Voluta (Aulica)* 107
ellipsoidea, *Voluta* 107
ellipticus, *Solecurtus* 175
emaciata, *Plicatula (Plicatula)* 160
emaciata, *Plicatula* 160
Emarginula sp. 39
Emarginula? sp. 39
ensicula, *Propeleda* 145
entypoma, *Divalucina* 170
eocenica, *Borsonia* 121
eocenica, *Borsonia, tatei* 121
eocenica, *Eotrigonia* 162
eocenica, *Macteola* 127
eocenicus, *Guraleus* 126
eocenicus, *Guraleus* sp. cf. 126
eocenicus, *Parasyngenchilus* 133
Eocolina sp. 60, 61
Eofusus sp. 100
eothinos, *Fossarus (Isapis)* 141
eothinos, *Isapis* 141
eothinos, *Raulinia* 141
ephamilla, *Corbula* 183
ephamilla, *Notocorbula* 183
Epicodakia sp. 168, 169
Epideira sp. 125
Epidirona sp. 125
epidromiformis, *Cancellaria* 117
epidromiformis, *Fusiaphera* 117
Epigrus sp. 65
*epithec*a, *Barbatia* 146
Epitoniidae gen. et sp. indet. 63
equidens, *Arca* 146
equidens, *Barbatia (Cucullaearca)* 146
equidens, *Barbatia* 146
equispiralis, *Maoritomella* 121
equivalvis, *Corbula* 182
eritima, *Punctiscula* 63
eritima, *Scalaria (Punctiscula)* 63
erma, *Hipponix (Antisabia)* 58
erma, *Aulacochiton* 192
erma?, *Sabia* 58
erosus, *Brachidontes* 152
erugata, *Cypraea (Semitrivia)* 72
erugata, *Semitrivia* 71
erugata, *Trivia* 71
erugata, *Triviella (Semitrivia)* 72
erycinaea, *Atactodea* 177
eryma, *Notocypraea* 75
escharoides, *Acrilla* 62
escharoides, *Mitra (Zierliana)* 86
escharoides, *Scalaria (Acrilla)* 62
estuarina, *Batillaria (Batillariella)* 54
etheridgei, *Cancellaria (Narona)* 116
etheridgei, *Cancellaria* 116
etheridgei, *Chione* 178
etheridgei, *Inglisella* 116
etheridgei, *Proxichione* 178
etheridgei, *Turbo (Sarmaticus?)* 49
etheridgei, *Turbo* 49
Etrema sp. 122
eucarinatus, *Clanculus (Euriclanculus)* 43
eucarinatus, *Clanculus* 43

- euclensis*, *Apiotoma* 123
euclensis, *Monilea* 44
eucosmus, *Limopsis* 150
euglypha, *Mitra* (*Costellaria*) 86
euglypha, *Vexillum* (*Costellaria*) 86
euglypha, *Vexillum* 86
euglypta, *Danilia* 42
Eumetula sp. 60
eupontica, *Eucrassatella* 167
eusmilium, *Cerithium* 60
eusmilium, *Eumetula*? 60
Euspira? sp. 78
Euspirocrommium sp. 51
Eutrophoceras sp. 188
Eutrophoceras? sp. 189
evanescens, *Acteon* 136
evaricosus, *Siphonochelus* 93
evaricosus, *Typhis* 93
exaltata, *Cancellaria* 117
exaltata, *Fusiaphera* 117
excavata, *Verticordia* 186
excrescens, *Cardita* 166
excrescens, *Venericardia* 166
excultatus, *Serripecten* 156
exigua, *Bullinella* 138
exigua, *Cassis* 80
exigua, *Cylichna* 138
exigua, *Notocallista* (*Fossacallista*) 178
exigua, *Phenacovolva* 78
exigua, *Simnia* (*Neosmimnia*) 78
exigua, *Thalotia* 44
exilis, *Brocchitas* 99
exilis, *Fasciolaria* 99
exilis, *Mitra* (*Costellaria*) 86
eximia, *Cypraea* (*Aricia*) 76
eximia, *Cypraea* (*Umbilia*) 76
eximia, *Cypraea* 76
eximia, *Rhynchocypraea* 76
eximia, *Umbilia* (*Umbilia*) *eximia* 76
eximia, *Umbilia* (*Umbilia*) 76
eximia, *Umbilia* 76
eximius, *Cantharidus* (*Phasianotrochus*) 43
eximius, *Phasianotrochus* 43
exoptanda, *Amoria* 108
exsculpta, *Asperdaphne* (*Aspertilla*) 129
exsculpta, *Asperdaphne* 129
exsculpta, *Etrema* 122
exsculpta, *Rugobela* 133
extenuata, *Conasprella* 118
extenuata, *Conus* 118
extrinodosus, *Murex* 91
extrinodosus, *Prototyphis* 91
exuta, *Hauturua* 124
exuta, *Syntomodrillia* (*Hauturua*) 124
eyrie, *Talochlamys* 157
eyrie, *Chlamys* 157
eyrie, *Hexaplex* 88
eyrie, *Murex* (*Phyllonotus*) 88
eyrie, *Murex* 88
eyrie, *Paziella* 89
eyrie, *Pecten* 157
eyrie, *Talochlamys* 157
fabaeformis, *Lithophaga* 153
fabuloides, *Lucina* 169
fabuloides, *Myrtea* 169
fallax, *Terebralia* 55
fallax, *Theridium* (*Theridium*) 55
fallax, *Theridium* 55
fanaticum, *Astele* (*Astele*) 46
fanaticum, *Astele* 46
fasciata, *Bankivia* 42
fasciata, *Rhinoclavis* (*Rhinoclavis*) cf. 57
fasciata, *Rhinoclavis* cf. R. 57
fasciculata, *Nannamoria* 109
faseolata, *Myrtea* 169
Felaniella (*Zemysia*) sp. 175
felix, *Cimomia* 189
felix, *Nautilus* 189
felix, *Willungia* 77
felixlorenzi, *Trivellona* 72
fenestralis, *Colina* 57
fenestralis, *Nucula* 143
fenestralis, *Pronucula* 143
fenestrata, *Cerithioderma* 68
fenestrata, *Mitrithara* 128
fenestrata, *Mitromorpha* 128
fenestrata, *Trichotropis* 68
fenestratum, *Mesopeplum* 159
fenestratum, *Mesopeplum* aff. M. 159
fenestratus, *Septifer* (*Septifer*) sp. cf. S. (S.) 152
fictilis, *Calthalotia* 44
fictilis, *Thalotia* (*Calthalotia*) 44
filiferus, *Neoguraleus* 127
fimbriata, *Cassis* (*Hypocassis*) 80
fimbriata, *Cassis* 80
finlayi, *Guraleus* (*Paraguraleus*) 127
finlayi, *Paraguraleus* 127
flabellaris, *Borniola* 171
flabellata, *Glycymeris* (*Tucetona*) 150
flabellata, *Glycymeris*, 150
flabellata, *Tucetona*, 150
flammea, *Glycymeris* 149
flemingtonense, *Cerithium* 56
flemingtonense, *Chavanicerithium* 56

- flemingtonense*, *Theridium* (*Chavanicerithium*) 56
flemingtonensis, *Cerithium* 56
flindersi, *Altivasum* sp. cf. A. 85
flindersi, *Bedevea* 92
flindersi, *Bolma*, *flindersi* 49
flindersi, *Lepsiella* 92
flindersi, *Nannamoria* 109
flindersi, *Pecten* 157
flindersiana, *Miltha* (*Milthoidea*) *grandis* 170
flindersiana, *Miltha* 169, 170
flindersii, *Astrarium* (*Calcar*) 49
fodinalis, *Mitra* 104
fodinata, *Zoila* 74
foliaceum, *Columbarium* 96
foliaceus, *Fusus* 96
foliaceus, *Serratifusus* 96
foliosa, *Circuloscala* 62
foliosa, *Scalaria* (*Circuloscala*) 62
fontinalis, *Astele* 46
fontinalis, *Bathytoma* 120
fontinalis, *Eutrochus* 46
fontinalis, *Genotia*, 120
fontinalis, *Leda* 145
fontinalis, *Nuculana* (*Saccella*) 145
fontinalis, *Sacella* 145
formosa, *Splendrillia* 124
forsythensis, *Acanthochiton* 194
forsythensis, *Acanthochitona* 194
forteradiata, *Limopsis* 151
fortis, *Nucula* 145
fossicius, *Chiton* 193
fossicius, *Anthochiton* 193
fossicius, *Chiton* (*Rhysoplax*) 193
fossicius, *Rhysoplax* 193
fossilis, *Atlanta* 58
foulcheri, *Pecten* 156
fragile, *Atkinsonella* 97
fragile, *Buccinum* 97
fragilis, *Capistrocardia* 182
fragilis, *Salinator* 140
fragilis, *Zenatiopsis* 176
frankstonensis, *Umbilia* (*Umbilia*) *brevis* 76
frenchiensis, *Pisinna* 65
Frigidocardium sp. 173
fulgetroides, *Ericusa* 110
fulgetroides, *Voluta* 110
fulgetrum, *Ericusa* 111
fumatus, *Pecten*, 159
funicalis, *Vermicularia* 54
funicalis, *Vermicularia*? 54
funiculatus, *Fusus* 94
funiculifer, *Actaeon* 136
funiculifer, *Acteon* 136
furneauxensis, *Umbilia* 76
fuscirivularis, *Galeodea* 81
fuscoamnica, *Cordieria* 121
fusilla, *Australaria* 100
fusilla, *Fasciolaria* 100
Fusinus sp. 100
fusoides, *Eratoidea* 116
gabrieli, *Cypraea* 74
gabrieli, *Haurakia* 66
gabrieli, *Myadora* 185
gaderopoides, *Spondylus* 160
gaderopoides, *Spondylus* cf. 160
gaimardi, *Cymatiella* 83
galactites, *Venerupis* 180
galbina, *Nanula* 44
Galeodea sp. 81
gallinula, *Tawera* 181
gambierense, *Chlamys* 158
gambierense, *Mesopeplum* 158
gambierense, *Pecten* 158
Gari sp. 174
garrardi, *Austrotriton* 83
garrardi, *Dermomurex* (*Dermomurex*) 91
garrardi, *Dermomurex* 91
gastroplax, *Cypraea* (*Aricia*) 77
gastroplax, *Cypraea* 77
gastroplax, *Palliocypraea* 77
gastroplax, *Rhynchocypraea* (*Palliocypraea*) 77
gastroplax, *Umbilia* (*Palliocypraea*) 77
gastroplax, *Umbilia* (*Umbilia*) 77
gatliffi, *Cryptoplax* 195
gatliffi, *Liniaxis*? 88
gatliffi, *Livonia* 111
gatliffi, *Murex* (*Muricidea*) 88
gatliffi, *Natica* 80
gatliffi, *Tectonatica* 80
gatliffi, *Voluta* 111
gatliffiana, *Nozeba* 65
gatliffiana, *Rissoa* 65
geelongensis, *Collonia* 50
geelongensis, *Collonista* 50
geelongensis, *Eutrephoceras* 188
geelongensis, *Nautilus* 188
gellibrandensis, *Gemmula* 130
gellibrandi, *Plaxiphora* 196
gemina, *Lima* 161
gemmata, *Lyria* 106
gemmata, *Montfortula* 40
gemmifera, *Leiopyrga* 43
Gemmula? sp. 130
gemmaulata, *Colpospira* (*Ctenocolpus*) 52

- gemmaulata*, *Colpospira* 52
gemmaulata, *Turritella* 52
gemmaulatus, *Triton* 83
geniculata, *Noditerebra* 119
geniculata, *Terebra* (*Noditerebra*) 119
geniculata, *Terebra* 119
gibberula, *Meroe* 178
gibberula, *Sunetta* (*Sunemeroe*) 178
gibberula, *Sunetta* 178
gibbosa, *Natica* 78
gibbuloides, *Antisolarium* 42
gibbuloides, *Delphinula* 42
gibbuloides, *Solarium* (*Torinia*) 42
gibbum, *Austrotriton* 82
gibbus, *Triton* 82
gigantea, *Glycymeris australis* var. 170
gigantea, *Loricella* 192
gigas, *Gigantocypraea*? 74
gigas, *Cypraea* (*Aricia*) 74
gigas, *Cypraea* 74
gigas, *Umbilia* (*Gigantocypraea*) 74
gigas, *Zoila* (*Gigantocypraea*) 74
gigas, *Zoila* 74
gilli, *Tylospira* (*Singletonaria*) 70
gilli, *Tylospira* 70
gippslandensis, *Etrema* 122
gippslandica, *Arcturellina* 165
gippslandica, *Chevallieria* 65
gippslandica, *Venericardia* 165
gippslandicum, *Trachycardium* (*Ovicardium*) 172
gippslandicum, *Trachycardium* 172
gippslandicus, *Fusus* 100
gippslandicus, *Inquisitor* 129
gippslandicus, *Pseudinquisitor* 129
glaber, *Austroclavus* 131
glabra, *Eucithara* 126
glabra, *Isara* 104
glabra, *Mangilia* (*Cythara*) 126
glabra, *Mitra* (*Eumitra*) 104
glaessneri, *Austroginella* 114
glaessneri, *Marginella* (*Eratoidea*) 114
glebosus, *Dermomurex* (*Takia*) 91
glebosus, *Dermomurex* 91
glenelgensis, *Ostrea sinuata* 154
glessaria, *Electroma* 154
globiformis, *Crithe* 113
globiformis, *Marginella* 113
Globivenus? sp. 181
globularis, *Crenella* 152
globularis, *Crenella* sp. aff. *Crenella* 152
globularis, *Solamen* (*Exosiperna*) sp. aff. 152
glomerabilis, *Superstes* 136
glomerabilis, *Zoila* 73
glomerata, *Tylospira* 69
Glossus (*Miocardiopsis*) sp. 176
Glycymeris (*Tucetona*) sp. 149
Glycymeris sp. 148
glyphospira, *Acrilla* 62
glyphospira, *Scalaria* (*Acrilla*) 62
Glyptozaria sp. 55
gnotuki, *Nannamoria* 108
goldsteini, *Dermomurex* (*Dermomurex*) 91
goldsteini, *Dermomurex* 91
goldsteini, *Trophon* (*Litozamia*) 91
gonioides, *Acrilla* 63
gonioides, *Scalaria* (*Acrilla*) 63
goudeyana, *Austrocypraea* 74
goudeyi, *Ellatrivia* 73
goudeyi, *Galeodea* 81
goudeyi, *Notocypraea* 76
gracilicostata, *Cardita* 164
gracilicostata, *Glans* 164
gracilicostata, *Lyria* 106
gracilicostata, *Rotundocardia* 164
gracilicostata, *Venericardia* 164
gracilicostatum, *Dentalium* (*Fissidentalium*) 186
gracilicostatum, *Fissidentalium* 186
gracilicostatum, *Fissidentalium* sp. cf. *F.* 187
gracililirata, *Mangilia* 94
gracililirata, *Retizafra*? 94
gracilior, *Notoluponia* 75
gracillima, *Bela* (*Daphnobela*) 130
gracillima, *Bela* (*Teleochilus*) 130
gracillima, *Daphnella* 130
gracillimum, *Teleochilus* 130
gracillimus, *Fusus* 100
gracillimus, *Teleochilus* 130
gradata, *Cancellaria* 117
gradata, *Cassidaria* 81
gradata, *Galeodea* 81
gradata, *Morio* 81
gramensis, *Limacina*, aff. 139
grandis, *Dosinia* 169
grandis, *Miltha* (*Milthoidea*) 169
grandis, *Natica substolida* var. 80
grangensis, *Lunella* 49
grangensis, *Turbo* 49
graniformis, *Hexaplex* 88
graniformis, *Hydrococcus* 64
graniformis, *Murex* (*Muricopsis*) 88
granolirata, *Etrema* 122
granosa, *Trigonia semiundulata* var. 163
granti, *Apiotoma* 123
granti, *Glycymeris* (*Grandaxinaea*) 149

- granti*, *Pleurotoma* 123
granti, *Tucetona* 149
granulosa, *Buccinaria* 129
granulosa, *Daphnella* 129
granulosus, *Acanthochites* (*Notoplax*) 191
granulosus, *Ischnochiton* (*Ischnoplax*) 191
granulosus, *Protochiton* 191
grata, *Dosinia* (*Dosinia*) 179
grata, *Dosinia* 179
grayi, *Amoria* (*Amoria*) 108
grayi, *Amoria* 108
greedi, *Callistelasma* 191
greedi, *Callistochiton* 191
gregaria, *Pseudopisinna* 58
gregaria, *Pseudopisinna gregaria* 58
gregsoni, *Cominella* 95
gregsoni, *Phos* 95
gricei, *Ennucula* 144
gricei, *Nucula* (*Ennucula*) 144
gruneri, *Carswellena* 49
gruneri, *Turbo* (*Euninella*) 49
gualteriana, *Notocochlis* 80
Guildfordia (*Opella*)? sp. 50
gunsoni, *Acar* 147
gunsoni, *Barbatia* (*Acar*) 147
gunyoungensis, *Addisonia* 41
gunyoungensis, *Cocculina* 41
gunyoungensis, *Glycymeris* (*Tucetona*) 149
gunyoungensis, *Glycymeris* 149
gunyoungensis, *Lucina* 168
gunyoungensis, *Tucetona* 149
hainsworthi, *Crepidula* (*Zeacrypta*) 68
hainsworthii, *Crepidula* 68
hainsworthii, *Maoricrypta* 68
hallae, *Botelloides* 45
hallani, *Umbilia* 76
halli, *Chione* 181
halli, *Glycymeris* (*G.*) 148
halli, *Glycymeris* 148
halli, *Mesericusa* 110
halli, *Oochiton* 193
halli, *Tawera* 181
halli, *Trophon* 134
halli, *Voluta* 110
hamiltonensis, *Carswellena* 49
hamiltonensis, *Carswellena* sp. cf. *C.* 49
hamiltonensis, *Conasprella* 118
hamiltonensis, *Conus* 118
hamiltonensis, *Ericusa* 110
hamiltonensis, *Gari* 174
hamiltonensis, *Mactra* 176
hamiltonensis, *Murex* (*Chicoreus*) 92
hamiltonensis, *Mytilus* 152
hamiltonensis, *Natica* 79
hamiltonensis, *Natica wintlei* var. 79
hamiltonensis, *Patelloida* 38
hamiltonensis, *Psammobia* 174
hamiltonensis, *Punctiscula* 63
hamiltonensis, *Scalaria* (*Nodiscala*) 63
hamiltonensis, *Scutellastra* 38
hamiltonensis, *Tanea* 79
hamiltonensis, *Trichomya* 152
hamiltonensis, *Trophon*? 92
hamiltonensis, *Turbo* 49
hamiltonensis, *Voluta* 110
hamiltonensis, *Turbo* (*Euninella*) sp. cf. *T. (E.)* 49
hamptonensis *Miltha* 170
hannafordi, *Livonia* 111
hannafordi, *Pterospira* 111
hannafordi, *Voluta* (*Pterospira*) 111
hannafordi, *Voluta* 111
haroldi, *Scrinium* 128
harpularia, *Crassispira* 128
harpularia, *Lyria* 106
harpularia, *Splendrillia* 128
harpularia, *Splendrillia* sp. cf. *S.* 129
harrisi, *Diplodonta* 175
harrisi, *Eratoena* 71
harrisi, *Guraleus* 127
harrisi, *Proterato* (*Eratoena*) 71
harrisi, *Ranella* 84
hauniense, *Parvamusium* [sic] sp. cf. *P.* 159
Haurokoa sp. 84
hebera, *Ancillaria* 103
hedleyi, *Alvania* 66
hedleyi, *Calliostoma* (*Fautor*) 46
hedleyi, *Calliostoma* 46
Heliacus (*Awarua*) sp. 135
Heliacus (*Claraxis*) sp. 135
Heliacus sp. 135
hemimeris, *Cardium* 172
hemimeris, *Pratulium* 172
hemimeris, *Protocardium* 172
hemiothhone [sic], *Buchozia* 128
hemiothhone, *Columbella* 128
hemiothhone, *Scrinium* 128
hemipsila, *Puncturella* 39
henicus, *Fusus* 96
hentyi, *Cellana* 38
heptagonalis, *Cottonia* 111
heptagonalis, *Livonia* 111
heptagonalis, *Voluta* 111
hesitata, *Umbilia* (*Umbilia*) 76
hesitata, *Umbilia* 76

- hesperus*, *Astraea* (*Bellastraea*) 49
hesperus, *Bellastraea* 49
heterophyseta, *Mimachlamys* 158
heterospira, *Conus* (*Leptoconus*) 118
heterospira, *Conus* 118
hexagonalis, *Fusus* 101
hindmarshensis, *Arcturellina* 165
hindmarshensis, *Cyclocardia* (*Arcturellina*) 165
hindmarshensis, *Myllita* 171
hippopus, *Ostrea* 154
hirsutus, *Brachidontes* 151
hirta, *Merelina* 66
hiscocki, *Nannamoria* 109
hochstetteri, *Pecten* 157
hora, *Miltha* 169
hora, *Milthoidea* 169
hordeacea, *Marginella* 115
hordeacea, *Mesoginella* 115
hordeastrata, *Cryptospira* 115
hormophora, *Chione* (*Timoclea*) 178
hormophora, *Chione* 178
hormophora, *Proxichione* 178
howchini, *Dentalium* 186
howchini, *Pellicaria* 70
howchiniana, *Mactra* (*Electromactra*)[sic] 176
howchiniana, *Mactra* 176
howchiniana, *Mactrotoma* 176
howitti, *Bankivia* 42
howitti, *Neotrigonia* 163
howitti, *Trigonia* 163
hudsoniana, *Astraea* 48
hudsoniana, *Astraliium* (*Imperator*) 48
hudsoniana, *Astraliium* 48
hudsoniana, *Imperator* 48
hughesi, *Splendrillia* 124
humerosa, *Rugobela* 133
huttonii, *Leda* 144
huttonii, *Nuculana* 144
huttonii, *Poroleda* 144
hyotidoidea, *Lopha* 154
hyotidoidea, *Ostrea* (*Lopha*) 154
hyotidoidea, *Ostrea* 154
hyotis, *Ostrea* 154
hypsellus, *Gemixystus* 91
hypsellus, *Trophon* (*Trophonopsis*) 91
hypsellus, *Trophon* (*Zeatrophon*) 91
hypsellus, *Trophon* 91
icosiphyllus, *Gemixystus* 91
icosiphyllus, *Trophon* (*Gemixystus*) 92
icosiphyllus, *Trophon* 91
idonea, *Monitilora* (*Monitilora*) 169
idonea, *Monitilora* 169
illota, *Erato* (*Eratopsis*) 71
illota, *Proterato* (*Proterato*) 71
illota, *Sulcerato* 71
imitator, *Dermomurex* 91
imitator, *Dermomurex* (*Takia*) 91
immersa, *Crepidula* (*Zeacrypta*) 68
immersa, *Maoricrypta* 68
imparigranosa, *Delphinula* 42
imparistriata, *Dosinia* (*Kereia*) 179
imparistriata, *Dosinia* 179
incerta, *Chlamys* (*Mesopeplum*) 159
incerta, *Humphreyia* 184
incertum, *Mesopeplum* 158
incertus, *Pecten* 158
incilata, *Tylospira* 70
incisus, *Antiguraleus* sp. cf. A. 127
incisus, *Guraleus* (*Paraguraleus*) 127
incisus, *Paraguraleus* 127
incisus, *Paraguraleus* sp. cf. P. 127
incola, *Gena* 46
incola, *Stomatella* 46
incommoda, *Canalispira* 112
incommoda, *Diala* (*Mereldia*) 55
incommoda, *Mereldia* 55
incommoda, *Volvarina*? 112
incompositus, *Austrolithes* 101
incompositus, *Fusus* 101
incompositus, *Austrolithes* 101
inconspicua, *Leda* 145
incurvilamellata, *Tawera* 181
indivisa, *Voluta anticingulata* var. 105
inermis, *Conuginella* 113
inermis, *Marginella* 113
inexpecta, *Bassethullia* 195
inexpectata, *Austrotoma* 131
inexpectata, *Callistelasma* 192
inexpectata, *Zemacies* 122
inexpectatus, *Callistochiton* 192
inexpectus, *Acanthochiton* (*Lirachiton*) 195
inexpectus, *Lirachiton* 195
infans, *Cadulus* (*Gadila*) 188
infans, *Gadila* 188
inflata, *Limacina* 139
inflator, *Volvulella* 137
inflatus, *Heliconoides* 139
infortunata, *Tugali* 40
infortunatum, *Tugali* 40
infrasulcata, *Syrnola* (*Agatha*) 141
infrasulcata, *Syrnola* 141
infundibulata, *Bullinella* 138
infundibulata, *Cylichna* 138
ingens, *Magallana* cf. M. 154

- ingens*, *Ostrea* 154
ino, *Dennantia* 99
ino, *Euthria* (*Dennantia*) 99
ino, *Fusus* 99
inornata, *Amaea* 63
inornata, *Scalaria* (*Acrilla*) 63
Insolentia? sp. 132
insolentior, *Admitrella* 94
insolentior, *Mitrella* (*Ademitrella*) 94
insolita, *Limopsis* 150
integra, *Drillia* 129
integra, *Integradrillia* 129
intercalatum, *Dentalium* 186
interclathrata, *Anadara* 147
interclathrata, *Hawaiarca* 147
intercostalis, *Ranella* 84
intercostalis, *Triton* 84
interlineata, *Dennantia* 99
interlineata, *Peristernia* 99
interlineata, *Trichotropis* 69
interlineatus, *Sirius* 69
intermedia, *Voluta weldii*, var. 109
intermedia, *Zemira* (*Eburnopsis*) 102
intermedia, *Zemira?* 102
intermedius, *Botelloides ludbrookae* 45
intermedius, *Glycimeris halli* 148
interposita, *Distortio* 84
interposita, *Personopsis* 84
intersitans, *Eotrigonia* 163
intersitans, *Trigonia* 163
interstriata, *Scalaria* (*Clathrus*) 63
interstriatus, *Clathrus* 63
intertexta, *Liratomina* 132
intumescens, *Mauidrillia* 126
involuta, *Tornatina* 138
ione, *Placunanomia* 161
iredalei, *Ellatrivia* 73
iredalei, *Gazameda* 53
iredalei, *Notocorbula* sp. cf. *N.* 183
iredalei, *Turritella* (*Gazameda*) 53
irisodontes, *Cantharidus* (*Phasianotrochus*) 44
irisodontes, *Phasianotrochus* 44
irregularis, *Murex* (*Chicoreus*) 92
irvinae, *Cymbiola* (*Aulicina*) 112
irvinae, *Cymbiola* 112
iscus, *Afossochiton* (*Telochiton*) 194
iscus, *Afossochiton* 194
iscus, *Telochiton* 194
Jagolucina? sp. 168
janjukiensis, *Anacithara* 125
janjukiensis, *Apiotoma*, 123
janjukiensis, *Atrina* (*Servatrina*) 153
janjukiensis, *Atrina*, 153
janjukiensis, *Etrema* 122
janjukiensis, *Guraleus* 126
janjukiensis, *Rotundicardia* 164
janjukiensis, *Turris* 123
janjukiensis, *Venericardia* 164
janukiensis, *Austrotoma* 131
jeffreysiana, *Lima* (*Limatula*) 162
jeffreysiana, *Lima* 162
jeffreysiana, *Limatula* (*Stabilima*) *jeffreysiana* 162
jeffreysiana, *Limatula* 162
jeffreysiana, *Stabilima* 162
jejuna, *Eatoniella?* 57
jejuna, *Pellax* 57
jimgracei, *Austrocypraea* 75
johannae, *Euroscaphella* 107
johannae, *Scaphella* (*Aurinia*) 107
johannaensis, *Syngenchilus* 133
johnstoni [sic], *Fusus* 100
johnstoni [sic], *Insolentia* 132
johnstoni [sic], *Latirus* (*Brocchitas*) 100
johnstoni, *Astraliium* (*Imperator*) 48
johnstoni, *Bittium* 55
johnstoni, *Cerithidium* 55
johnstoni, *Dosinia* (*Kereia*) 179
johnstoni, *Dosinia* 179
johnstoni, *Rissoina* 55
johnstoni? [sic], *Fusus*, 100
johnstoniana, *Eulima* 66
johnstoniana, *Leiostraca* 66
johnstonii, *Fusus* 100
johnstonii, *Insolentia* 132
johnstonii, *Pleurotoma*, 132
jonesiana, *Austrocypraea* 76
jonesiana, *Cypraea* 76
jonesiana, *Notocypraea* 76
jonesiana, *Odontostomia* 141
jonesiana, *Syrnola* (*Agatha*) 141
jonesiana, *Syrnola* 141
josephi, *Calliostoma?* 46
josephi, *Trochus* 46
jubata, *Sportella* 172
jutsoni, *Cellana* 38
jutsoni, *Nacella?* 38
kalimnae, *Calyptraea* 68
kalimnae, *Cardita* 164
kalimnae, *Dentimargo* 115
kalimnae, *Ennucula* 144
kalimnae, *Marginella* 115
kalimnae, *Mytilicardia* 164
kalimnae, *Nucula* (*Ennucula*) 144
kalimnae, *Nucula* 144

- kalimnae*, *Sigapatella* 68
kalimnanense, *Vexillum* (*Costellaria*) 86
kalimnanensis, *Tosapusia* 86
kalimmensis, *Panopea* 182
keiloriana, *Chlamys* 157
keiloriana, *Talochlamys* 157
kekwickii, *Margarita* 47
kekwickii, *Spectamen* 47
kelimnae, *Glans* 165
kendricki, *Austroharpa* 105
kendricki, *Botelloides chrysalidus* 45
kendricki, *Clavocerithium* 55
kendricki, *Notochlamys* 156
kendricki, *Timoclea* (*Veremolpa*) 181
kendricki, *Timoclea* 181
kendricki, *Trivellona* 72
kenyoniana, *Donax* 174
kenyoniana, *Gari* (*Psammobia*) 175
kenyoniana, *Gari* 175
kenyoniana, *Plebidonax* 174
kerslaka, *Botelloides sulcatus* 45
kicksii, *Dentalium* 187
killara, *Nuculana* (*Scaeolea*) 145
killara, *Scaeolea* 145
kimberi, *Niso* 67
kingi, *Notocallista* (*Notocallista*) 178
kingicoloides, *Crassatellites* 167
kingicoloides, *Eucrassatella* 167
kingiculoides[sic], *Eucrassatella* 167
kingsparki, *Solemya* 146
kitsoni, *Gibberula* 113
kitsoni, *Latiginella* 113
kitsoni, *Marginella*, 113
korneli, *Triviella* 72
krauseana, *Semele* 175
krausei, *Tellina* 174
Labrostrea? sp. 154
labrosus, *Parvisipho* (*Varicosipho*) 95
labrosus, *Sipho* 95
labrosus, *Varicosipho* 95
lacertosa, *Austromitra* 86
lacertosum, *Vexillum* (*Costellaria*) 86
laciniata, *Typhina* 93
laciniatus, *Typhis* (*Typhis*) 93
laciniatus, *Typhis* 93
lactea, *Ringicula* 136
lacteola, *Callucina* 168
lacteola, *Pseudolucinisca* 168
lacteolum, *Dentalium* (*Laevidentalium*) 187
laevigata, *Vulsella* 154
laevigata, *Vulsella* sp. cf. V. 154
laevis, *Adeorbis* 48
laevis, *Cirsonella* 48
laevis, *Pleurotoma selwyni*, 125
lagopus, *Tawera* 181
laguncula, *Gadila* 188
lamarcki, *Trigonia* 163
lamellata, *Carditella* 167
lamellata, *Gouldia* 167
lamellata, *Myadora* 184
lamellatoplicata, *Lyria* 106
lamellatum, *Salaputium* 167
lamellifera, *Australaria* 99
lamellifera, *Chama* 176
lamellifera, *Eocithara* (*Refluharpa*) 104
lamellifera, *Eocithara* 104
lamellifera, *Harpa* (*Eocithara*) 104
lamellifera, *Harpa* 104
lamellifera, *Siphonalia* 99
lamellosa, *Austroliotia* 47
lamellosa, *Liotia* 47
lamellosa, *Liotina* 47
lampas, *Charonia* 81
lampra, *Acirsa* 61
lampra, *Notacirsa* 61
lampra, *Scalaria* (*Hemiacirsa*) 61
lanceolata, *Ancillaria* 103
lanceolata, *Baryspira* 103
lanceolata, *Poroleda* 145
lapidaria, *Bertinella* 173
laqueata, *Cosmetalepas* 40
laqueata, *Fissurellidaea*, 40
largicrescens, *Dentalium* (*Laevidentalium*) 187
largicrescens, *Laevidentalium* 187
latecarina, *Calliostoma* 46
latecaudatus, *Lithophagus* 153
latecaudatus, *Modiolus* 153
latesulcata, *Neaera* (*Rhinomya*) 185
latesulcatum, *Dentalium* (*Dentalium*) 186
latesulcatum, *Dentalium* (*Fissidentalium*) 186
latesulcatum, *Dentalium* 186
latesulcatum, *Infundibulum* 43
latesulcatum, *Infundibulum?* 43
laticornuata, *Compressidens* 187
laticostata, *Cancellaria*, 116
laticostata, *Gergovia* 116
laticostata, *Talochlamys* 157
laticostatus, *Pectunculus* 149
laticostatus, *Pectunculus* 149
latissima, *Cardita* 164
latissima, *Glans* (*Fasciculicardia*) 164
latissima, *Glans* 164
latissima, *Glyptoactis* (*Fasciculicardia*) sp. cf. G. (F.) 164

- latissima*, *Rotundicardia* 164
latissima, *Turritella* (*Maoricolpus*) 53
latissima, *Venericardia* 164
latus, *Spondylus* sp. cf. *S.* 160
lauta, *Crossea* 64
lauta, *Diala* 55
lauta, *Dolicrossea* 64
lawleyanum, *Bittium* (*Eubittium*) 54
lawsae, *Salinator* 140
laxegemmatum, *Cantharidus* (*Phasianotrochus*) 43
laxegemmatum, *Phasianotrochus* 43
legrandi, *Paziella*? 89
legrandi, *Murex* (*Phyllonotus*) 89
legrandi, *Murex* 89
legrandi, *Paziella* 89
legrandi, *Solecortus* 175
lehmanni, *Gibbula* (*Notogibbula*) sp. *G.* (*N.*) 45
lehmanni, *Notogibbula* sp. *N.* 45
lenticularis, *Glycymeris* (*Tucetona*) 149
lenticularis, *Glycymeris* 149
lenticularis, *Pectunculus* 149
lenticularis, *Tucetona* 149
Lentigo sp. 71
leprosa, *Veprichlamys* 157
Lepsiella sp. 92
leptalea, *Acrilla* 62
leptalea, *Mitra* (*Costellaria*) 86
leptalea, *Scalaria* (*Acrilla*) 62
leptalea, *Uromitra* 86
leptaleum, *Vexillum* (*Costellaria*) 86
leptaleum, *Vexillum* 86
leptopyrga, *Cerithiella* 59
leptorhyncha, *Cypraea* (*Luponia*) 77
leptorhyncha, *Cypraea* 77
leptorhyncha, *Rhynchocypraea* 77
leptorhyncha, *Umbilia* (*Rhynchocypraea*) 77
leptorhyncha, *Umbilia* (*Umbilia*) 77
leptorhyncha, *Umbilia* 77
leptoryncha, *Leda* 144
leptoryncha, *Ledella* 144
leptoryncha, *Nuculana* 144
leptoskeles, *Cumia* 95
leptoskeles, *Epidromus* 95
leptospira, *Hastula* 120
leptospira, *Terebra* 120
leucomomorpha, *Lucina* 168
levicristata, *Cosmasyrinx* (*Tholitoma*) 131
levicristata, *Cosmasyrinx* 131
levior, *Athleta* (*Ternivoluta*) *antiscalaris* 106
levior, *Ternivoluta* 106
levior, *Voluta antiscalaris* 106
ligata, *Amalda* (*Gracilispira*) 103
ligata, *Ancillaria* 103
ligata, *Baryspira* (*Gracilispira*) 103
ligata, *Gracilispira* 103
ligata, *Gracilispira* sp. cf. *G.* 103
ligata, *Mitra* (*Strigatella*) 88
ligata, *Tornatellaea* (*Triploca*) 137
ligata, *Triploca* 137
ligatus, *Conus* (*Leptoconus*) 119
ligatus, *Conus* 119
limata, *Natica* (*Stigmaulax*) 79
limata, *Natica* 79
limatella, *Barbatia* 146
limatum, *Globisinum* 79
limbata, *Nannamoria* 109
limbata, *Voluta* (*Volutoconus*) 109
limbata, *Voluta* 109
limbata, *Volutoconus*, 109
Limid indet. 161
limnaios, *Homalopoma* (*Homalopoma*) 50
limnaios, *Homalopoma* 50
Limopsis sp. 150
limula, *Cerithiella* 59
lincolnense, *Vexillum* 86
lincolnensis, *Austromitra* 86
lincolnensis, *Mitrella* (*Dentimitrella*) 94
lincolnensis, *Mitrella* 94
lindsayi, *Miltha* 169
lineolata, *Cominella* 96
lineus, *Modiolus* 153
linguatulus, *Brachidontes* 152
linguatulus, *Mytilus* 152
linguliformis, *Lima* 161
linigera, *Notovoluta* 107
lintea, *Dennantia* 99
lintea, *Notovoluta* 108
lintea, *Peristernia* 99
lintea, *Voluta* 108
linteum, *Streptosiphon* (*Streptopelma*) 99
liraecostata, *Turbonilla* (*Chemnitzia*) 142
liraecostata, *Turbonilla* 142
liraecostatus, *Phos* 95
liraecostatus, *Pyrgiscus* 142
lirasuturalis, *Manulona* 56
lirata, “*Struthiolaria*” 70
lirata, *Dianadema* 183
lirata, *Finella* 55
lirata, *Singletonaria* 70
lirata, *Struthiolaria* 70
lirata, *Tylospira* 70
lirata, *Voluta* (*Aulica*) 108
lirata, *Voluta* 107, 108
liratum, *Aspergillum* (*Humphreyia*) 183

- liratus*, *Obtortio* 55
lirulatus, *Micrelenchus* (*Plumbelenchus*) 45
lirulatus, *Micrelenchus* 45
livida, *Gari* (*Psammobia*) 174
livida, *Gari* 174
lochi, *Trivellona* 72
lodderae, *Dentimargo* 115
lodderae, *Volvarinella* 115
longbottomi, *Pseudovertagus*? 55
longiconica, *Eulima* 66
longiconica, *Melanella* (*Margineulima*) 66
longirostris, *Penion* 96
longirostris, *Siphonalia* 96
longispira, *Acteocina* 137
longispira, *Tornatina* 137
longispira, *Voluta strophodon* var. 108
longisulcata, *Ellatrivia* 73
longisulcata, *Ellatrivia longisulcata* 73
lophoessus, *Chicomurex* 89
lophoessus, *Murex* (*Chicoreus*) 89
lowryi, *Glycymeris* (*Tucetona*) 150
lowryi, *Tucetona*, 150
loxopleura, *Punctiscala* 62
loxopleura, *Scalaria* (*Punctiscala*) 62
loxorhyncha, *Rhynchocypraea* 76
lubra, *Notostrea* 155
lucens, *Pecten* 159
lucida, *Leda* 145
ludbrookae, *Botelloides ludbrookae* 45
ludbrookae, *Cryptoplax* 195
ludbrookae, *Filodrillia* 121
ludbrookae, *Guraleus* (*Guraleus*) 126
ludbrookae, *Guraleus* 126
ludbrookae, *Laevityphis* (*Laevityphis*) 93
ludbrookae, *Laevityphis* 93
ludbrookae, *Limatula* 162
ludbrookae, *Stabilima* 162
ludbrookae, *Syntomodrillia* 125
ludbrookae, *Tomopleura* 122
ludbrookae, *Xenophora* (*Xenophora*) *flindersi* 69
ludbrookae, *Xenophora*, *flindersi* 69
lunata, *Limacina* 139
lunatus, *Heliconoides* 139
lundeliusae, *Chicoreus* (*Chicoreus*) 90
lundeliusae, *Chicoreus* (*Triplex*) 90
lundeliusae, *Chicoreus* 90
lundeliusae, *Nannamoria* 108
lutea, *Notocallista* (*Striacallista*) 179
lutosa, *Eotrigonia* 163
lutosa, *Eotrigonia semiundulata* var. 163
lutosa, *Trigonia semiundulata* var. 163
lygdinopsis, *Austroclavus* 131
lyraecostata, *Cominella* 95
lyraecostatus, *Phos* 95
Lyria sp. 106
m'coyi, *Typhis* (*Typhina*) 92
m'coyi, *Typhis* 92
maccoyi, *Argobuccinum* 84
maccoyi, *Glycimeris* 149
maccoyi, *Glycymeris* (*Grandaxinea*) 149
maccoyi, *Gyrineum* (*Biplex*) 84
maccoyi, *Gyrineumi* 84
maccoyi, *Limopsis* 150
maccoyi, *Notopeplum* 112
maccoyi, *Pectunculus* 149
maccoyi, *Scaphella* 112
maccoyi, *Tucetona* 149
maccoyi, *Typhis* (*Typhina*) 92
maccoyi, *Typhis* (*Typhis*) 92
maccoyi, *Typhis* 92
maccoyi, *Umbilia* (*Umbilia*) *eximia* 76
maccoyi, *Voluta* 112
macdonaldensis, *Anthochiton* 193
macdonaldensis, *Chiton* (*Rhyssoplax*) 193
macdonaldensis, *Rhyssoplax* 193
macdonaldi, *Callochiton* 193
macdonaldi, *Cymbiola* 112
macdonaldi, *Paricoplax* 193
macdonaldi, *Voluta* (*Aulica*) 112
macdonaldi, *Voluta* 112
macer, *Lepton* 171
macer, *Mysella* 171
macer, *Rochefortia* 171
macra, *Austromitra* 86
macra, *Balcomitra* 86
macrocephala, *Alcithoe* (*Alcithoe*) 110
macrocephala, *Alcithoe* 110
macrocephala, *Scaphella* 110
macroptera, *Ericusa* 110
macroptera, *Pterospira* 110
macroptera, *Voluta* 110
mactraeformis, *Cryptodon* 170
mactraeformis, *Thyasira* 170
maculatus, *Trochus* (*Trochus*) cf. *T.* 43
maculatus, *Trochus* cf. *T.* 43
magnicostatus, *Afossochiton* (*Telochiton*) 195
magnicostatus, *Afossochiton* 195
magnicostatus, *Telochiton* 195
magnifica, *Loricella* 192
magnogranifer, *Lepidopleurus* 190
magnogranifer, *Leptochiton* 190
magnogranifer, *Terenochiton* 190
magnopustulosa, *Loricella* 192
majorina, *Clavagella* (*Clavagella*) 183

- majorina*, *Clavagella* 183
makros, *Dennantia* 99
makros, *Trophon* (*Enatimene*) 99
mala, *Marginella* 114
mala, *Mioginella* 114
mala, *Serrata* 114
mala, *Serrata* cf. *S.* 114
malleata, *Cosmetalepas* 40
malleata, *Fissurellidae* 40
malonei, *Nannamoria* 108
mammilla, *Livonia* 111
mandarinus, *Penion* 96
mangeliodes, *Etrema* 122
mangeliodes, *Trophon* 122
mantelli, *Dentalium* (*Fissidentalium*) 187
mantelli, *Entalis* 187
manubriata, *Ostrea* 154
manubriatus, *Murex* (*Pteronotus*) 90
manubriatus, *Pterochelus*, 90
manubriatus, *Pterynotus* (*Pterochelus*) 90
manyung, *Gazameda victoriensis* 53
mappingae, *Turbonilla* (*Chemnitzia*) 142
mappingae, *Turbonilla* 142
margaritacea, *Neotrigonia* 163
margaritata, *Limatula* 162
margaritata, *Stabilima* 162
margariticola, *Drupella* 92
margaritinus, *Tellinides* 173
marginata, *Thala* 133
Marginella sp. 112
Marginella? sp. A, 116
Marginella? sp. B 116
Margineulima? sp. 67
mariae, *Caloscala* 62
mariae, *Cirsotrema* 62
mariae, *Scalaria* (*Cirsotrema*) 62
mariae, *Tellina* (*Macomona*) 173
mariae, *Turbonilla* (*Turbonilla*) 142
mariae, *Turbonilla* 142
Marshallaria sp. 132
marthae, *Nucula* 144
marwicki, *Pelicaria* 70
marwicki, *Tylospira* 70
marwicki, *Tylospira*, *coronata* 70
maslinensis, *Lima* 161
masoni, *Amorena* 108
masoni, *Amoria masoni* 108
masoni, *Amoria undulata* 108
masoni, *Tellina* 173
masoni, *Voluta* 108
masoni, *Voluta* (*Amoria*) 108
matronalis, *Mappingia* 132
matthewsi, *Bassethullia* 195
maudensis, *Spissatella* 168
maudensis, *Cardita* 164
maudensis, *Crassatellites* 168
maudensis, *Emarginula* 39
maudensis, *Eucrassatella* 168
maudensis, *Glycymeris* 148
maudensis, *Rotundicardia* 164
mawsoni, *Austromitra* 86
mawsoni, *Dentalium* (*Fissidentalium*) 187
mawsoni, *Fissidentalium* 187
maxima, *Praehyalocylis* 140
maximus, *Penion* 96
maximus, *Strombus* (*Tricornis*) aff. 70
maximus, *Tricornis* aff. *T.* 70
mayi, *Glycymeris* (*Tucetilla*) 149
mayi, *Glycymeris* 149
medicata, *Notovoluta* 107
medicata, *Notovoluta verconis* 107
medioplicatilis, *Colpospira* (*Platycolpus*) 52
medioplicatilis, *Platycolpus* 52
medioplicatilis, *Turritella* 52
mediosulcata, *Cardium* 172
mediosulcata, *Fulvia* 172
medipontea, *Neotrigonia* 163
megale, *Mitriothara* 128
megale, *Mitromorpha* 128
melamans, *Terebra* (*Dimidacus*) sp. cf. *T. (D.)* 120
Melanella? sp. 67
melanoides, *Diastoma* 55
melanostoma, *Bembicium* 58
melanostoma, *Mamilla* [sic] cf. 80
melanostoma, *Mammilla* cf. *M.* 80
melanotragus, *Nerita* 51
Melongena sp. 97
memanae, *Eucrassatella* 168
menkeana, *Mitrella* 94
merces, *Ellatrivia* 73
meredithae [sic], *Fusus* 100
meredithiae, *Fusus* 100
meredithiae, *Propefus* 100
meridiana, *Gilbertina* 136
meridionalis, *Callistochiton* 192
meringae, *Mesopeplum* 159
meringae, *Pecten* 159
merultum, *Adelacerithium* 59
meta, *Dentimargo* 115
meta, *Marginella* (*Eratoidea*) 115
meta, *Marginella* 115
metula, *Dentiginella* 113
metula, *Gibberula* 113
metula, *Marginella* 113

- metula, Serrata* 113
metungensis, Trophon (Enatimene) 92
micans, Arthritica 171
micans, Kellia 171
micans, Pseudoliotia 65
micra, Cancellaria 116
micra, Pepta 116
Microfulgur? sp. 102
microglyptophorus, Calliotropis 42
microlirata, Odostomia 141
micronema, Dennantia 99
micronema, Leucozonia 99
microplocus, Acteon 137
microplocus, Semiactaeon 137
microrhysa, Punctiscala 62
microrhysa, Scalaria (Punctiscala) 62
microsculptum, Proxiuber 79
microstira, Sigaretus 79
microstira, Sinum 79
microundula, Arca (Barbatia) 147
Microvoluta? sp 87
micula, Marginella 114
micula, Protoginella 114
millegranosa, Astele 46
milnesi, Nerita 51
Miltha sp. 169
Mimachlamys? sp. 158
mimeticum, Austrotriton 83
minima, Austrosassia 82
minima, Ellatrivia 72
minima, Ellatrivia minima 72
minima, Trivia 72
minimum, Mesopeplum 158
minimum, Triton 82
minor, Erato (Proterato) 71
minor, Erato 71
minor, Proterato (Cypraerato) 71
minor, Proterato 71
minuta, Cucullea [sic] 148
minuticonica, Eulima 67
minuticonica, Melanella (Margineulima) 67
minutus, Gemixystus? 92
minutus, Murex 92
Miocardiopsis sp. 176
miocenica, Heterocithara 127
mirabilis, Etrema 122
mirabilis, Pseudovaricia 95
mirula, Mirolacuna 64
mirula, Sublacuna 64
mirulus, Streblorhamphus 64
mistio, Glycimeris halli 148
mitchellana, Philippia (Psilaxis) 135
mitchellana, Psilaxis 135
mitchellensis, Cerithiopsis 60
mitchellensis, Zaclys 60
mitraeformis, Lyria 106
mitralis, Otopleura 142
Mitrella sp. 93
mitrellaeformis, Oxymeris 120
mitrellaeformis, Terebra 120
Mitrolumna? sp. 127
Mitromorpha? sp. 127
moana, Closia (Closia) 113
moana, Cystiscus 113
moana, Marginella 113
modesta, Gari (Gari) 174
modesta, Gari 174
modestina, Cancellaria 117
modestina, Sydaphera 117
modestina, Tasmatica 80
mollesta, Notocallista (Striacallista) 179
monachus, Hypotrochus 51
monachus, Plesiotrochus 51
monilectum, Cardium 172
monilectum, Hedecardium 172
monilifera, Amalda (Gracilispira) 103
monilifera, Amalda 103
moniliferata, Inella 61
monoploca, Mitra 104
monotropis, Enatimene 92
monotropis, Trophon (Enatimene) 92
monotropis, Trophon 92
montis-marthae, Umbilia (Umbilia) eximia 76
moondarae, Proxichione 178
mooraboolensis, Austrocochlis 80
mooraboolensis, Brachidontes 151
mooraboolensis, Haliotis 38
mooraboolensis, Modiolus 153
mooraboolensis, Mytilus 151
mooraboolensis, Natica 80
morganense, Amusium 159
morganense, Ylistrum 159
morganensis, Lima 161
morningtonensis, Archierato 71
morningtonensis, Erato (Erato) 71
morningtonensis, Erato 71
morningtonensis, Etrema 122
morningtonensis, Heliacus (Claraxis) 135
morningtonensis, Heliacus 135
morningtonensis, Limopsis 150
morningtonensis, Trochaclis 41
mortoni, Livonia 111
mortoni, Livonia mortoni 111
mortoni, Pterospira 111

- mortoni*, *Voluta* 111
morundiana, *Australaria* 99
morundiana, *Nucula* 143
morundiana, *Peristernia* 99
morundiana, *Pronucula* 143
mucronata, *Ancillaria* 103
mucronata, *Gadila* 188
mucronatus, *Cadulus* (*Gadila*) 188
mucronatus, *Cadulus* 188
muelleri, *Cassidea* (*Casmaria*) 81
muelleri, *Semicassis* (*Antephalium*) 81
muelleri, *Semicassis* 81
mulderi, *Cerithiopsis* 60
mulderi, *Cypraea* 73
mulderi, *Hinnites* 155
mulderi, *Joculator* 60
mulderi, *Turbonilla* 142
mulderi, *Umbilia* (*Gigantocypraea*) 73
mulderi, *Zoila* (*Gigantocypraea*) 73
mulderi, *Zoila* 73
multangularis, *Clavagella* (*Clavagella*) 183
multangularis, *Dianadema* 183
multicincturalis, *Colpospira* (*Platycolpus*) 53
multicincturalis, *Platycolpus* 53
multicincturalis, *Turritella* 53
multicinctus, *Cantharidus* 43
multicostulatum, *Ataxocerithium* 59
multicostulifera, *Limea* (*Notolimea*) 161
multicostulifera, *Notolimea* 161
multilamella, *Carditella* 167
multilamellata, *Chione* 177
multilamellata, *Dosina* (*Dosina*) 177
multilamellata, *Dosina* 177
multilamellata, *Talochlamys* 157
multilamellum, *Salaputium* 167
multilirata, *Batillaria* (*Zeacumantus*) 54
multiliratus, *Clypeomorus* 54
multiliratus, *Zeacumantus* 54
multiplicata, *Austromitra* 86
multiplicatus, *Vokesimurex* 88
multiradialis, *Eoacmaea* 38
multiradialis, *Patelloida* 38
multiradiata, *Limea* 162
multiradiata, *Limopsis* 150
multistrigosa, *Katelsia* 180
multisulcata, *Mitra* (*Mitra*) 104
multisulcata, *Mitra* 104
mumiformis, *Ovaginella* 115
Murex? sp. 83
Murexsul sp. 89
murndaliana, *Lophiotoma* 131
murndaliana, *Pleurotoma* 131
murraviana, *Cypraea* 75
murraviana, *Luponia* 75
murraviana, *Notoluponia* 75
murraviana, *Notoluponia murraviana* 75
murravianus, *Conus* (*Leptoconus*) 118
murravianus, *Conus* 118
murravicus, *Spondylus* 160
murrayana, *Annachlamys* 158
murrayana, *Bassina* 180
murrayana, *Cardita* 164
murrayana, *Cytherea* 180
murrayana, *Dennantia* 99
murrayana, *Lophiotoma* 131
murrayana, *Lucerapex* 131
murrayana, *Pecten* 158
murrayana, *Peristernia* 99
murrayana, *Pleurotoma* 131
murrayana, *Rotundocardia* 164
murrayana, *Torcula* 53
murrayana, *Turritella* (*Maoricolpus*) 53
murrayana, *Turritella* 53
murrayana?, *Chlamys* (*Annachlamys*) aff. 158
murrayanus, *Latirus* 99
murrayanus, *Maoricolpus* 53
murrayanus, *Pecten* 158
murrayanus?, *Pecten* 158
murrayvianus, *Solecurtus* 175
muscaroides, *Austroginella* 114
muscaroides, *Marginella* 114
muscula, *Mitrella* (*Dentimitrella*) 94
muscula, *Mitrella* 94
muscula, *Zemitrella* 94
mutica, *Acrilla* 63
mutica, *Noditerebra* 119
mutica, *Scalaria* (*Acrilla*) 63
mutica, *Terebra* 119
mutlitaeniata, *Chione* 177
Myochama? sp. 184
naevosoides, *Haliotis* 38
nana, *Cassis* (*Hypocassis*) 80
nana, *Cassis* 80
nanarupensis, *Notochlamys*? 155
nanum, *Scrinium* 128
Nassaria? sp. 98
Nassarius (*Niotha*) sp. 98
Nassarius sp. 98
nasuta, *Avicula* 153
nasuta, *Pteria* 153
Natica sp. 79
navicelloides, *Pileopsis* 69
naxus, *Molachiton* 195
negata, *Arca* 146

- neglectoides*, *Alcithoe* (*Waihaioia*) 109
neglectoides, *Spinomelon neglectoides* 109
neglectus, *Ischnochiton* 191
neozelanica, *Xenophora* 69
Nepotilla sp. 130
newmanae, *Cypraeolina* 113
newtoni, *Conus* (*Leptoconus*) 119
newtoni, *Conus* 119
ngayawang, *Ericusa* 110
nimbifer, *Lima* 161
nitidissima, *Calthalotia* 44
nitidissima, *Thalotia* (*Calthalotia*) 44
nitidula, *Eulimella* 142
nivarus, *Ischnochiton* 190
nivarus, *Lepidopleurus* 190
nivarus, *Leptochiton* 190
nodiplicata, *Livonia* sp. cf. *L.* 111
nodulata, *Tritonoharpa* 118
nodulatus, *Epidromus* 118
nodulatus, *Ratifusus* 118
nodulosus, *Exomilus* 130
nota, *Tugali* 40
nota, *Tugalia* 40
notabilior, *Gonimyrtea* 169
notialis, *Astarte* (*Astarte*) 166
notialis, *Conorbis* 124
Notoacmea sp. 38
Notoseila sp. 60
novacambricum, *Neolepton* 177
novaehollandiae, *Fusinus* 100
novaehollandiae, *Propofusus* 100
nuciformis, *Cardiolucina* 168
nuciformis, *Linga* (*Bellucina*) 168
nuciformis, *Lucina* 168
Nucula sp. 143
nullarborensis, *Miltha* 169
nullarborica, *Jetwoodsia* 56
nullarboricum, *Jetwoodsia* 56
nullarboricum, *Potamides* 56
numantius, *Ischnochiton* 191
numapum, *Calliostoma* (*Fautor*) 46
numapum, *Calliostoma* (*Fautor*) sp. aff. 46
numapum, *Fautor* 46
numapum, *Fautor* sp. aff. 46
numerosissima, *Dosinia* (*Kereia*) 179
numicus, *Cryptoplax* 196
nurinensis, *Batillaria* (*Batillariella*) 54
nurinensis, *Retusa* (*Semiretusa*) 138
nurinensis, *Semiretusa* 138
nurinensis, *Zeacumantus* 54
nutans, *Maoritomella* 121
nuttalli, *Nassarius* (*Niotha*) 98
nuttalli, *Nassarius* 98
nuttalli, *Tavaniotha nigella* 98
nymphalis, *Cupidoliva* 103
nymphalis, *Oliva* 103
nymphalis, *Olivella* (*Cupidoliva*) 103
obbata, *Cuspidaria* 185
obdita, *Clathurella* 122
obdita, *Etrema* 122
obesa, *Mirolacuna* 64
obesula, *Archierato* 71
obesula, *Erato* (*Erato*) 71
obesula, *Erato* 71
obesus, *Streblorhamphus* 64
obliquecostata, *Pisania* 98
obliquecostatus, *Cantharus* 98
obliquicancellatum, *Calliostoma* (*Laetifautor*) 47
obliquicancellatus, *Laetifautor* 47
oblonga, *Amblychilepas* 40
oblonga, *Crassatella* 167
oblonga, *Crassatellites* 167
oblonga, *Eucrassatella* 167
oblongula, *Drillia* 129
oblongulus, *Inquisitor* 129
oblongulus, *Pseudinquisitor* 129
obolella, *Leda* 146
obolella, *Nuculana* 146
obolella, *Ovaleda* 146
obolella, *Sarepta*, 146
obscura, *Volutomitra* 87
obscura, *Waimatea* 87
obsoleta, *Mangilia* 127
obsoleta, *Syntomodrillia* 125
obsoletus, *Guraleus* (*Paraguraleus*)? 127
obsoletus, *Paraguraleus* 127
occidentalis, *Dosina* 177
occidentalis, *Icuncula* 69
occlusa, *Submarginula* 39
occlusa, *Montfortula* 39
occlusus, *Tenagodus* 54
occulta, *Notovoluta* 107
occulta, *Notovoluta kreusleri* 107
Ocenebra sp. 89
octocostatus, *Anthochiton* 193
octocostatus, *Chiton* (*Rhyssoplax*) 193
octocostatus, *Rhyssoplax* 193
octona, *Leiopyrga* 43
octoplicata, *Erato* 116
octoplicata, *Erato*? 116
octoplicata, *Marginella* 116
octoplicata, *Topaginella* 116
octoradiata, *Acmaea* 38
octoradiata, *Loricella* 192

- oculea, Lorica* 193
Odostomia sp. 141
Odostomia? sp. 141
oligodontota, Notoluponia 75
oligostira, Cymatiella 82
oligostirum, Lotorium 82
oligostirus, Triton 82
olivellaeformis, Actaeon 136
olivellaeformis, Actaeopyramis 136
olivellaeformis, Acteon 136
olivellaeformis, Adelactaeon 136
omicron, Amblychilepas 40
omissa, Collonia 50
onkastoma, Austrocypraea 74
onkastoma, Lyncina (Austrocypraea) 74
Opalia (Pliciscala)? sp. 62
opima, Notocallista (Fossacallista) 179
opposita, Eremopsis 123
optata, Pleurotoma 133
optatus, Optoturris 133
Orbicularia? sp. 182
orbita, Panopaea 182
orca, Ericusa fulgetrum 111
ordinarius, Pseudofax, cf. P. 95
ornatissimum, Astralium (Bellastraea) 49
ornatissimum, Astralium (Calcar) 49
ornatissimum, Pachypoma (Lithopoma) 49
ornithopetra, Glycymeris (Grandaxinea) 149
ornithopetra, Glycymeris 149
ornithopetra, Tucetona 149
ornithopetronicum, Pratulium 173
ornithopetronicum, Protocardia 173
orphanata, Alcithoe (Alcithoe) 110
orphanata, Alcithoe 110
orycta, Alocospira 103
orycta, Ancillaria 103
orycta, Cirsotrema 62
orycta, Scalaria (Circuloscala) 62
othone, Microvoluta 87
othone, Mitra (Cancilla) 87
othone, Mitra 87
othone, Waimatea 87
otopleuroides, Ataxocerithium 59
otwayanus, Heliacus (Awarua) 135
otwayanus, Heliacus 135
otwayensis, Borsonia 121
otwayensis, Collonia 50
otwayensis, Conorbis 124
otwayensis, Conorbis, attractoides 124
otwayensis, Cordieria 121
otwayensis, Eutinochilus 50
otwayensis, Marshallaria 133
otwayensis, Maudrillia 125
otwayensis, Maudrillia 126
otwayensis, Murex (Triplex) 91
otwayensis, Prototyphis 91
otwayensis, secta Maudrillia 126
ovalis, Mysella 171
ovicampestris, Lyria mitraeformis 106
ovinoides, Haliotis 38
ovoideum, Austrotriton 83
ovoideus, Triton 83
ovulatella, Austrocypraea 75
ovulatella, Austrocypraea 77
ovulatella, Cypraea 77
ovulatella, Erato (Protoerato) 77
ovulatella, Sulcocypraea 77
ovulatella, Willungia 77
oxleyi, Columbella 93
oxleyi, Mitrella 93
pachycheila, Austroharpa (Palamharpa) 104
pachycheila, Austroharpa 104
pachycheila, Harpa 104
pachyphylla, Bassina (Bassina) 180
pachyphylla, Bassina 180
pachypleura, Scalaria (Acrilla) 63
pachyptycha, Acteocina 137
pachyptycha, Tornatina 137
pachystirus, Dermomurex (Takia) 91
pachystirus, Dermomurex 91
pachystirus, Murex (Rhinocantha) 91
pachystirus, Murex 91
pagoda, Mathilda 57
pagoda, Orthochetus 57
pagoda, Turbonilla 142
pagodiformis, Mastoniaeformis 61
pagodiformis, Tylospira 70
pagodoides pagodoides, Alcithoe (Waihaoia) 109
pagodoides Spinomelon, 109
pagodoides, Alcithoe (Waihaoia) 109
pagodoides, Notovoluta 109
pagodoides, Scaphella (Eosephia) 109
pagodoides, Voluta 109
pagodoides?, Notovoluta 109
pagodula, Colpospira (Ctenocolpus) 52
pagodula, Colpospira 52
pagodula, Turritella 52
paivae, Bedeva 92
palaioanaxea, Leionucula sp. cf. L. 143
paleocenica, Eotrigonia 162
palla, Cassoginella 114
palla, Marginella 114
pallinupensis, Stirpulina 183
palmipes, Chlamys (Equichlamys) bifrons 155

- palmipes*, *Chlamys* (*Equichlamys*) 155
palmipes, *Pecten* 155
pamphilius, *Lepidopleurus* 191
Panopea sp. 182
papillata, *Alocospira* 102
papillata, *Ancilla* (*Alocospira*) 102
papillata, *Ancillaria* 102
paraboloides, *Nannamoria* 109
paracantha, *Optoturris* 133
paracantha, *Pleurotoma* 133
Paraguraleus sp. b 127
Paraguraleus? sp. a 127
Paraguraleus? sp. c 127
parallela, *Austrocypraea* 74
parallela, *Cypraea* 74
Parasyngenchilus? sp. 133
Pareuchelus? sp. 47
parkinsonia, *Austrosassia* 82
parri, *Micantapex* 120
parthenopeus, *Monoplex* 84
particula, *Cuna* 170
particula, *Saltocuna* 170
partinoda, *Mauidrillia* 126
partisculpta, *Damoniella* 139
partisculpta, *Roxania* 139
Parvamussium sp. 159
parvistrigulata, *Conominolia* 42
parvula, *Collonia* 50
parvula, *Crossea* 50
paucicostata, *Costellaria* 86
paucicostata, *Glycimeris halli* 148
paucicostata, *Mitra* (*Costellaria*) 86
paucigradata, cf. *Ledina* 144
paucigradata, *Ledina* 144
paucigradata, *Nuculana* 144
paucilineata, *Bullinella* 138
paucilineata, *Cylichna* 138
pauciplicata, *Austromitra* 86
paucipustulosa, *Chiton* 192
paucipustulosa, *Loricella* 192
paucirugata, *Bassina* (*Bassina*) 180
paucirugata, *Bassina* 180
paucirugata, *Cytherea* 180
paucirugata, *Meretrix* 180
paucirugosa, *Pisinna* 65
paupertina, *Venerupis* 180
Pecten sp. 156
pecten, *Cardita* 166
pecten, *Pleuromeris* 166
pectinata, *Trigonia* 163
pectinata, *Verticordia* 186
Pectinid sp. 159
pellita, *Ericusa* (*Mesericusa*) 110
pellita, *Ericusa* 110
pellita, *Ericusa sowerbyi* 110
pellita, *Voluta* 110
penetricinctus, *Hypotrochus* 51
penetricinctus, *Plesiotrochus* 51
pentaploca, *Conomitra* 88
pentaploca, *Microvoluta* 88
pera, *Gibberula* 113
pera, *Marginella* 113
peramangus, *Murex* 90
peramangus, *Siratus* 90
peramangus, *Trunculariopsis* 90
peramoena, *Etrema* 121
peramoena, *Filodrillia* 121
perarata, *Pleurotoma* 131
perarata, *Turris* 131
perarmatus, *Micantapex* 120
percrassa, *Isognomen* 153
percrassa, *Melina* 153
perculta, *Murexiella* 89
perelongata, *Coxellaria* 59
perelongata, *Cerithiella* (*Coxellaria*) 59
perelongatus, *Cerithiopsis* 59
perglobosa, *Ethminolia* 47
perglobosa, *Isanda* (*Minolia*) 47
perglobosa, *Minolia* 47
peridonea, *Arcturellina* 165
peridonea, *Cyclocardia* (*Arcturellina*) 165
pernitida, *Antigona* 181
pernitida, *Tawera* 181
peroni, *Chlamys* 157
peroni, *Pecten* 157
peronii, *Patella* (*Scutellastra*) 38
peronii, *Scutellastra* 38
perornatum, *Gafrarium* 178
perplexa, *Patelloida* 38
perscabrosa, *Thracia* 185
persimilis, *Nannamoria* 109
perspectiva, *Globisinum* 79
perspectiva, *Natica* 79
perstriata, *Voluta anticingulata* var. 105
pertusa, *Cominella*(?) 98
pertusa, *Reticunassa* 98
pervalida, *Myadora* 185
pestis, *Notocallista* (*Striacallista*) 179
petasus, *Conus* (*Leptoconus*) 119
petasus, *Conus* 119
petraea, *Rotundicardia* 164
petraea, *Venericardia* (*Rotundicardia*) 164
petricolus, *Acteon* 136
petulans, *Austrotriton* 83

- phanerospira*, *Bullinella* 138
phanerospira, *Cylichna* 138
Phenacovolva sp. 77
phorca, *Zenatiopsis* 177
Phygraea sp. 154
physa, *Hianoginella* 115
physa, *Marginella* 115
physa, *Mesoginella* 115
pictile, *Dentalium* (*Laevidentalium*) 187
pictile, *Laevidentalium* 187
pilsbryoides, *Acanthochiton* 194
pilsbryoides, *Acanthochitona* 194
pilulatus, *Cirsochilus* 50
pinguicula, *Eulima* 67
pinguicula, *Melanella* 67
Pinna sp. 153
piperita, *Cypraea* (*Notocypraea*) 76
piscatorius, *Hispidofusus* 85
Pisinna sp. 65
pixidata, *Caryocorbula* 182
pixidata, *Corbula* (*Caryocorbula*) 182
pixidata, *Corbula* 182
placidum, *Placamen* 181
placuna, *Calyptraea* 67
placuna, *Sigapatella* 67
plana, *Myochama* 184
planata, *Triphora* (*Ogivia*) 61
planata, *Triphora* 61
planatella, *Lucina* 173
planatella, *Pseudoarcopagia* 173
planicarinaratum, *Spectamen* 47
planiconicum, *Astele* (*Pulchrastele*) 45
planiconicum, *Pulchrastele* 45
planilabrum, *Closia* (*Closia*) 113
planilabrum, *Crithe* 113
planiliratum, *Neolepton* 177
planiuscula, *Glycymeris* 150
planiuscula, *Leda* 146
planiuscula, *Melaxinaea* 150
planiuscula, *Ovaleda* 146
planiuscula, *Sarepta* 146
planiusculum, *Lepton* 171
planulatus, *Mytilus* 151
platycostata, *Cardita* 164
platycostata, *Mytilocardia* 164
platygyra[sic], *Zoila*, 73
platypleura, *Cancellaria*, 116
platypleura, *Merica* (*Gergovia*) 116
platypyga, *Cypraea* (*Aricia*) 73
platypyga, *Cypraea* (*Erosaria*) 73
platypyga, *Cypraea* 73
platypyga, *Umbilia* (*Umbilia*) 73
platypyga, *Zoila* (*Zoila*) *platypyga* 73
platypyga, *Zoila* 73
platyrhyncha, *Cypraea* (*Aricia*) 76
platyrhyncha, *Umbilia* (*Umbilia*) 76
platyspira, *Colpospira* (*Colpospira*) 52
platyspira, *Colpospira* 52
platyspira, *Oxymeris* 120
platyspira, *Terebra* 120
platyspira, *Turritella* 52
platyspiroides, *Colpospira* (*Colpospira*) 52
platyspiroides, *Colpospira* 52
platyspiroides, *Turritella* (*Colpospira*) 52
platystropha, *Clavella* 101
platystrophus, *Austrolithes* 101
plebeius, *Clanculus* (*Mesoclanculus*) 43
plebeius, *Clanculus* 43
pleiophylla, *Cirsotrema* 62
pleiophylla, *Cirsotrema* sp. aff. C. 62
pleiophylla, *Scalaria* (*Cirsotrema*) 62
pleuronectes, *Pecten* 157
pleurotomella, *Cryptoborsonia* 132
Plicacea? sp. 161
plicata, *Notoluponia* 75
Plicatula (*Plicatula*) sp. 160
pliocenic, *Herpetopoma* 42
pliocenicus, *Botelloides borda* 45
pliocenicus, *Euchelus* (*Herpetopoma*) 42
plumbeus, *Zeacumantus* 54
polita, *Ampullina* (*Ampullonatica*) 79
polita, *Carditella* 166
polita, *Cuna*, 166
polita, *Friginatica* 79
polita, *Natica* 79
polita, *Pyramidella* 141
polita, *Scaphella* 112
polita, *Syrnola* 141
polita, *Voluta* 112
politum, *Notopeplum* 112
pollens, *Echinophoria* aff. E. 80
polyactina, *Lima* 161
polyaktinos, *Austrohinnites* 155
polyaktinos, *Chlamys* (*Chlamys*) 155
polycesta, *Borsonia* 121
polymorphoides, *Pecten* 158
polynema, *Acirsa* 61
polynema, *Cardita* 164
polynema, *Lima* 162
polynema, *Scalaria* (*Hemiacirsa*) 61
polynema, *Stabilima* 162,
polynema, *Venericardia scabrosa* var. 164
polyphyllia, *Trophon* 92
polyphyllius, *Gemixystus* 92

- polyphyllius*, *Trophon* 92
pompholugota, *Semitrivia*? 72
pompholugota, *Trivia* (*Trivirostra*) 72
pompholugota, *Trivia* 72
pompholugota, *Triviella* 72
pompholugota, *Triviella* 72
ponderosa, *Montfortula* 40
porrecta, *Tellina* 174
porrectus, *Semelangulus* 174
Potamidid, gen. et sp. indet 57
powelli, *Epideira* 125
powelli, *Epidirona* 125
powelli, *Guraleus* (*Euguraleus*) 127
powelli, *Guraleus* 127
powelli, *Nepotilla* 130
praecompressa, *Cocculina* 41
praecompressa, *Tectocrater* 41
praecursor *Spectamen* 47
praecursor, *Katelsysia* 180
praecursor, *Pecten* 156
praecursoria, *Zemira* 102
praecygnorum, *Acrosterigma* 172
praecygnorum, *Vasticardium* (*Regozara*) 172
praefasciata, *Syrnola* (*Agatha*) 141
praefasciata, *Syrnola* 141
praeformicula, *Austroginella* 114
praeformicula, *Marginella* 114
praegracilicostata, *Terebra* 119
praegrانifera, *Monophorus* 61
praegrانifera, *Triphora* (*Notosinister*) 61
praelonga, *Cucullaea* 147, 148
praelonga, *Cucullaea corioensis* 148
praelonga, *Leda* 144
praelonga, *Ledella* 144
praelonga, *Myadora* 185
praelonga, *Nuculana* 144
praelonga, *Ringicula* 136
praemeridionalis, *Homalaxis* 135
praemeridionalis, *Pseudomalaxis* (*P.*) 135
praemeridionalis, *Pseudomalaxis* 135
praenominata, *Lamprodomina* 103
praenominata, *Oliva* 103
praenovarensis, *Haurakia* 66
praenovarensis, *Turboella* 66
praenuntia, *Cosa* 151
praenuntia, *Philobrya* 151
praepompilius, *Nautilus* 188
praerupta, *Modiola* 153
praeruptus, *Modiolus* 153
praespurca, *Etrema* 122
praetermissa, *Cardiolum* 168
praetermissa, *Linga* (*Bellucina*) 168
prattii, *Apollo* 84
prattii, *Cymatiella* 83
prattii, *Lotorium* 83
prattii, *Ranella* (*Argobuccinum*) 84
prattii, *Triton* 83
prima, *Clavogemmula* 131
prima, *Gemmula* (*Clavogemmula*) 131
primarugatum, *Notopeplum* 112
princeps, *Crossea* 48
princeps, *Crosseola* 48
prionota, *Punctiscalia* 63
prionota, *Scalaria* (*Nodiscalia*) 63
prionotus, *Murex* (*Ocenebra*) 89
prionotus, *Ocenebra* 89
pritchardi, *Apiotoma* 123
pritchardi, *Bathytoma* 120
pritchardi, *Cerithium* 56
pritchardi, *Chavanicerithium* 56
pritchardi, *Cryptoplax* 195
pritchardi, *Genotia* 120
pritchardi, *Globisium* 79
pritchardi, *Natica* 79
pritchardi, *Thericium* (*Chavanicerithium*) 56
pritchardi, *Turritella* (*Zaria*) 53
procerior, *Zemacies* 122
profunda, *Hastula*?, 120
profunda, *Terebra*, 120
profundus, *Trophon* 134
projecta, *Lucina* 168
propebelloides, *Paramarshallena* 133
propeporcina, *Bassethullia* 195
propinqua, *Chione* 181
propinqua, *Marginella* (*Serrata*) 113
propinqua, *Marginella* 113
propinqua, *Serrata* 113
propinqua, *Tawera* 181
prora, *Deltoidonautilus* 189
prora, *Teichertia* 189
prosila, *Umbilia* (*Umbilia*) 76
protensa, *Borsonia* 121
protensa, *Cordieria* sp. cf. 121
protensa, *Cordieria*, 121
protensum, *Austrotriton* 82
protensum, *Lotorium* 82
protensus, *Triton* 82
proterothetidis, *Nemocardium* (*Pratulium*) 173
proterothetidis, *Pratulium* 173
protomarica, *Glycodonta* 181
protomarica, *Timoclea* (*Veremolpa*) 181
protomarica, *Timoclea* 181
protorhysa, *Voluta* 112
protorhysum, *Notopeplum* 112

- protorhysum*, *Notopeplum* cf. *N.* 112
provisi, *Diastoma* 54
psephea, *Cucullaea* (*Cucullona*) 147
psephea, *Cucullaea* 147
psephenata, *Jagolucina*? 168
pseudaustralis, *Ancillaria* 103
pseudaustralis, *Baryspira* 103
pseudaustralis, *Glycymeris* (*Veletuceta*) 149
pseudaustralis, *Glycymeris* 149
pseudoclarae, *Comitas* 128
pseudoelegans, *Etrema* 122
pseudolirata, *Notovoluta* 107
pseudolirata, *Voluta* (*Aulica*) 107
pseudolirata, *Voluta* 107
Pseudoliva (*Buccinorbis*) sp. 102
pseudomagnum, *Cardium* 172
pseudomagnum, *Hedecardium* 172
pseudonavicularis, *Arca* 146
Pseudoninella? sp. 42
pseudoradula, *Spondylus* 160
pseudoradulus, *Spondylus* 160
Pseudovertagus? sp. 55
psila, *Niso* (*Niso*) 67
psila, *Niso* 67
psila, *Tricolia* 50
psila, *Triforis wilkinsoni* 61
ptychodermis, *Conus*, 119
ptychotropis, *Cancellaria* 117
ptychotropis, *Oamaruia* 117
pueblensis *Spinomelon* 109
pueblensis, *Alcithoe* (*Waihaoia*) 109
pueblensis, *Modiola* 153
pueblensis, *Modiolus* 153
pueblensis, *Voluta* 109
Pugilina? sp. 97
pulchella, *Persicula*, 113
pulcherrima, *Costatophora* 61
pulcherrima, *Starkeyna* 64
pulcherrima, *Teinostoma* 64
pulcherrimum, *Teinostoma* 64
pulcherrimus, *Belchiton* 190
pulcherrimus, *Leptochiton* 190
pulchra, *Bela* 131
pulchra, *Belatomina* 131
pulchra, *Daphnella* 131
pulchra, *Fenestrodaphne* 132
pulleinei, *Propefusus* 100
pulligera, *Austroharpa* (*Austroharpa*) 105
pulligera, *Austroharpa* 105
pulligera, *Harpa* 105
pullulascens, *Pleurotoma* 126
pullulascens, *Conasprella* 118
pullulascens, *Conus* 118
pullulascens, *Mauidrillia* 126
pullulescens [sic], *Conus* (*Lithoconus*) 118
pullulescens [sic], *Conus* 118
pumila, *Arca* (*Barbatia*) 146
pumila, *Austromitra* 85
pumila, *Barbatia* 146
pumila, *Cominella* 98
pumila, *Cyllene* 98
pumila, *Peristernia* 85
punctulifera, *Litiopa* 55
pura, *Mactra* 176
purpurata, *Purpurocardia* 165
purpureocincta, *Mitrella* (*Dentimitrella*) 94
purpuroides, *Cantharus* 98
purpuroides, *Peristernia* 92
purpuroides, *Pisania* 98
purpuroides, *Ricinula* 98
pustuloclathrata, *Cerithiopsis* 60
puteana, *Tylospira* 70
puteolata, *Actaeon* 141
puteolata, *Odostomia* 141
Pycnodonte (*Phygraea*) sp. 154
pygmaea, *Notadusta* 77
pyramidale, *Chavanicerithium* 56
pyramidale, *Potamides* 56
pyrenoides, *Lamellinucula* 143
Pyrgiscus sp. 142
pyrrhus, *Nassarius* (*Zeuxis*) 98
pyrrhus, *Nassarius* 98
pyrrhus, *Niotha* 98
pyrula, *Cosmetalepas concatenatus* 41
pyrula, *Megatebennus concatenatus* 41
pyrulata, *Archierato* 71
pyrulata, *Cypraea* 75
pyrulata, *Erato* (*Erato*) 71
pyrulata, *Erato* 71
pyrulata, *Notoluponina* 75
pyrum, *Semicassis* 81
quadricarinata, *Veruturris* 134
quadricarinata, *Xenuroturris* (*Veruturris*) 134
quadricingulata, *Leiopyrga* 43
quadricingulata, *Liopyrga* [sic] 43
quadricingulatus, *Clanculus* (*Euriclanculus*) 43
quadricingulatus, *Clanculus* 43
quadrifunifer, *Levifusus*? 97
quadrisulcata, *Lucina* 170
quindecemlirata, *Tornatellaea* 137
quinquelirata, *Trichotropis* 69
quinqueliratus, *Sirius* 69
quoyi, *Venericardia* 165
quoyii, *Bulla* 137

- radiale*, *Austrotriton* 82
radiale, *Lotorium* 82
radiale, *Tritonium* (*Austrotriton*) 82
radialis, *Ancistrobasis* 41
radialis, *Austrotriton* 82
radialis, *Basilissa* 41
radialis, *Sequenzia* 41
radialis, *Triton* 82
radians, *Glycymeris* (*Tucetilla*) 148
radians, *Glycymeris* 148
radiapex, *Syngenchilus* 134
radiata, *Carditella* 166
radiata, *Micromeris* 166
radiata, *Semicassis* (?*Casmaria*) 81,
radiata, *Semicassis* 81
radiata, *Warrana* 166
radiatum, *Antephalium* 81
radicans, *Pyrgiscus* 142
radicans, *Turbonilla* 142
ralphi, *Acrilla* 63
ralphi, *Austromitra* 86
ralphi, *Conus* (*Chelyconus*) 119
ralphi, *Macoma* 174
ralphi, *Mammiscala* 63,
ralphi, *Mitra* 86
ralphi, *Nannamoria* 109
ralphi, *Panopea* 182
ralphi, *Tellina* 174
ralphi, *Volutoconus* 109
ralphii, *Conus* 119
ramulosa, *Plicatula* 160
Ranella sp. 84
rangiana, *Clio* (*Styliola*) 140
rangiana, *Styliola* 140
Raulinia? sp. 141
reevei, *Cypraea* (*Austrocypraea*) 75
refractus, *Fossarus* 57
regula, *Marginella* 114
regula, *Mioginella* 114
regularis, *Carditella* 165
relata, *Chiton* (*Anthochiton*) *tricostalis* 193
relatus, *Acanthochiton*, *forsythensis* 194
relatus, *Anthochiton*, *tricostalis* 193
relatus, *Chiton* (*Rhyssoplax*) *tricostalis* 193
relatus, *Lepidopleurus* 190
relatus, *Rhyssoplax* 193
relatus, *Terenochiton* 190
reticosa, *Cerithiella* 59
reticosa, *Cerithiopsis* 59
reticosa, *Pinna* 153
reticosa, *Streptopinna*? 153
reticulata, *Callistelasma reticulata* 192
reticulatus, *Callistochiton* 192
retisurus, *Drepanocheilus* (*Tulochilus*) 71
retisurus, *Drepanochilus* 71
Retizafra sp. 94
Rhinoclavis (*Proclava*) sp. 57
Rhinoclavis (*Rhinoclavis*) sp. 57
Rhinoclavis sp. 57
rhipidata, *Annachlamys* 158
rhomboidalis, *Bathytoma* 120
rhomboidalis, *Lissarca* 151
rhomboidalis, *Pleurotoma* 120
rhomboidea, *Ledella* 144
rhomboidea, *Nuculana* 144
rhomboidea, *Verticordia* 186
rhysa, *Natica subinfundibulum* var. 78
rhysus, *Murex* (*Pteronotus*) 90
rhysus, *Pterochelus* 90
rhytidata, *Mitra*? 104
rhytiphora, *Katelysia* 180
roberti, *Pyramidella* 143
robinsoni, *Otopleura* 143
roblini, *Fusus* 96
roblini, *Liotia* 47
roblini, *Penion* (*Austrosipho*) 96
roblini, *Penion* 96
roblini, *Siphonalia* (*Penion*) 96
roblini, *Siphonalia* 96
roei, *Haliotis* (*Marinauris*) 39
roei, *Haliotis* 39
rosicollina, *Eucrassatella* 167
rostrata, *Dennantia* 99
rostrata, *Pisania* 99
rostrata, *Volvulella* 137
rostratus, *Acanthochites* 194
rostratus, *Afossochiton* 194
rota, *Tucetilla* 148
rotulina, *Leucorhynchia* 48
rotunda, *Cystiscus* 112
rotunda, *Marginella* 112
rubiginosa, *Astele* 46
rubiginosum, *Calliostoma* (*Salsipotens*) 46
rubricata, *Lissarca* 151
rudis, *Austrocochlea*, 42
rudis, *Diloma* (*Fractarmilla*) 42
rudis, *Thylacodes* 58
rufescens, *Mactra* 176
rugata, *Australaria* 100
rugata, *Fasciolaria* 100
rugata, *Myochama* 184
rugatoides, *Columbarium* 85
rugicostatus, *Typhis* (*Cyphonochelus*) 93
rugobela, *Cryptoborsonia* 132

- rugosa*, *Clypidina* (*Montfortula*) 40
rugosa, *Cuna* 166
rugosa, *Micromeris* 166
rugosa, *Montfortula* 40
rugosa, *Warrana* 166
rumballi, *Austrocypraea* 75
rupestris, *Limopsis* 150
rupicolum, *Campanile* 51
rutidoloma, *Astraea* (*Micrastraea*) 49
rutidoloma, *Bellastraea* 49
sabrata, *Acanthochitona* 194
sabratus, *Acanthochiton* 194
saginata, *Notovoluta* 107
saginatium, *Notoepulum* 107
sagittata, *Tanea* 79
sagma, *Cryptospira* 115
sagma, *Marginella* 115
salaputium, *Mitreola* 107
salebrosa, *Codakia* 170
salebrosa, *Comitas*, 128
salebrosa, *Eomiltha* (*Gibbolucina*) 170
salebrosa, *Gibbolucina* (*Gibbolucina*) 170
salebrosa, *Gibbolucina* 170
salebrosa, *Pleurotoma* 128
salisburyensis, *Addisonia* 41
salisburyensis, *Cassis* (*Hypocassis*) 80
salisburyensis, *Cocculinella* 41
salisburyensis, *Gonimyrtea* 169
salisburyensis, *Isotriphora* 61
salisburyensis, *Triphora* (*Isotriphora*) 61
salteriana, *Cerithium* 60
salteriana, *Zaclys* 60
samueli, *Gemmula* 130
samueli, *Pleurotoma* 130
sandleroides, *Pleurotoma* 124
sandleroides, *Syntomodrillia* 124
sarissa, *Spinomelon* 110
sarissa, *Alcithoe* (*Waihaoia*) 110
sarissa, *Notovoluta* 110
sarissa, *Scaphella* (*Eosephia*) 110
sarissa, *Voluta* 110
Sassia sp. 81
saxatilis, *Dosinia* (*Dosinobia*) 179
saxatilis, *Dosinobia* 179
saxosulensis, *Euspira* 78
sayceana, *Epidirella*? 130
sayceana, *Leiopyrga* 43
sayceana, *Pleurotoma* 130
scabriculus, *Inquisitor* 129
scabriculus, *Pseudinquisitor* 129
scabrosa, *Cardita* 164
scabrosa, *Rotundocardia* 164
scabrosa, *Venericardia* 164
scabrosus, *Serratifusus* 96
scalarina, *Katelsia* 180
scalaris, *Cerithiopsis* 60
scalaris, *Terebra* 60
scalena, *Austrocypraea* 74
scalena, *Cypraea* 74
scapha, *Arcoperna* 152
scapha, *Exosiperna* 152
scopulensis, *Callistina* (*Tikia*)? 181
scrobiculata, *Roxania* 139
scrobiculatus, *Actaeon* 136
scrobiculatus, *Acteon* 136
sculpta, *Loricella* (*Pseudoloricella*) 192
sculpta, *Loricella* 192
sculpta, *Pseudoloricella* 192
sculptilis, *Bela* 132
sculptilis, *Daphnella* 132
sculptilis, *Eofusus* 100
sculptilis, *Fusinus* 100
sculptilis, *Fusus* 100
sculptilis, *Liratomina* 132
Scutellastra sp. 38
secta, *Mauidrillia* 125
secta, *Mauidrillia* sp. cf. 125
sectiforme, *Dentalium* (*Antalis*) 186
sectiforme, *Dentalium* (*Graptacme*) 186
sectiformis, *Antalis* 186
Seila sp. 60
sella, *Placunanomia* 161
sella, *Pododesmus* 161
selwyni, *Austrofusus* 95
selwyni, *Pleurotoma* 125
selwyni, *Pleurotoma* 131
selwyni, *Trophon* 95
selwyni, *Turris* 131
Semele? sp. 175
semiacuticostata, *Lyria* 106
semiaratum, *Dentalium* 186
semicostata, *Brocchinia* 116
semicostata, *Cancellaria* 116
semicostata, *Pinna* (*Atrina*) 153
semicostata, *Pinna* 153
semicostata, *Pisania* 99
semicostata, *Retizafra* 94
semicostatium, *Potamides* 56
semicostatus, *Aesopus* 94
semigranosa, *Modiolaria* 152
semigranosa, *Musculus* 152
semigranosum, *Antephalium* 81
semigranosum, *Phalium* (*Semicassis*) 81
semilaevis, *Ancillaria* 103

- semilaevis*, *Gracilispira* 103
semilaevis, *Mitra (Pusio)* 86
semilaevis, *Pecten yahlensis* [sic] var. 156
semilaevis, *Serripecten* 156
semiornata, *Calliostoma* 46
semiornata, *Crossea* 48
semiornata, *Crosseola* 48
sempiplanata, *Cochlespira* 123
sempiplanata, *Coronasyrinx* 123
semiplicatus, *Hypotrochus* 51
semiplicatus, *Plesiotrochus* 51
semistriata, *Nucula* 143
Semitriton sp. 117
semiundulata, *Eotrigonia* 163
semiundulata, *Peristernia* 97
semiundulata, *Tasmethria* 97
semiundulata, *Trigonia* 163
senticosus, *Fusus* 85
senticosus, *Hispidofusus* 85
sephus, *Leptochiton* 190
sephus, *Terenochiton* 190
Sepia sp. 190
septemlirata, *Pleurotoma* 131
septemliratus, *Turris* 131
septemplicata, *Cystiscus* 113
septemplicata, *Marginella* 113
septifraga, *Turritella* 53
septifragus, *Maoricolpus* 53
septuagenarium, *Cardium* 172
septuagenarium, *Hedecardium* 172
Seraphs sp. 70
sericea, *Montacuta* 171
sericea, *Mysella* 171
serotinoidea, *Ataxocerithium* 59
serratula, *Prothalotia* 44
serratulus, *Cantharidus* 44
Serripecten sp. 156
Serripecten? sp. 156
serrulata, *Mauidrillia* 126
sexcostata, *Cymatiella* 83
sexcostatus, *Triton* 83
sexuaplicata, *Voluta (Aulica)* 107
shelfordensis, *Circomphalus* 180
shelfordensis, *Clausinella* 180
sicus, *Cryptoplax* 196
sigillata, *Dimya* 160
sigillata, *Dimyodon* 160
silicatus, *Dermomurex* 91
silicicola, *Comitas* 128
silicula, *Cyamiocardium* 171
simnioides, *Notoluponia* 75
simnioides, *Notoluponia brachypyga* 75
simplex, *Enatimene* 92
simplex, *Terebra* 120
simplicior, *Zoila (Zoila) platypyga* 73
simulans, *Acar* 147
simulans, *Arca (Barbatia)* 147
simulans, *Barbatia (Acar)* 147
simulans, *Barbatia* 147
simulans, *Fusus* 96
simulans, *Loripes* 168
simulans, *Penion roblini* 96
simulans, *Wallucina* 168
sinervus, *Lepidopleurus* 190
sinervus, *Leptochiton* 190
sinervus, *Terenochiton* 190
singletoni, *Acanthochiton* 194
singletoni, *Acanthochitona* 194
singletoni, *Brookula* 41
singletoni, *Guraleus* 127
singletoni, *Notocallista (Fossacallista)* 179
singularis, *Epideira* 125
singularis, *Liratomina?* 125
singularis, *Modiolaria* 152
singularis, *Solamen* 152
singus, *Lepidopleurus* 191
singus, *Leptochiton* 191
singus, *Terenochiton* 191
sinotecta, *Tudicla (Tudicla)* 85
sinotecta, *Tudicla* 85
sinotectum, *Tudivasum* 85
sinuata, *Thyasira* 170
sinuatum, *Cryptodon* 170
siphonata, *Cypraea* 77
siphonata, *Umbilia (Umbilia)* 77
Sirius sp. 69
smithiana, *Corbula* 182
solida, *Arcturellina* 166
solida, *Cardita* 166
solida, *Phallomedusa* 140
solida, *Salinator* 140
solitaria, *Diplodonta (Diplodonta)* 175
solitaria, *Diplodonta* 175
sordida, *Austromitra* 86
sordida, *Mitra (Pusio)* 86
sordidus, *Solen* 182
sororcula, *Spinomelon* 109
sororcula, *Alcithoe (Waihaoia) pagodoides* 109
sorrentae, *Cardita* 164
soverbii, *Fimbria*, aff. *F.* 170
sowerbyi, *Ericusa* 111
sowerbyi sowerbyi, *Ericusa* 111
spatiosa, *Siphonalia* 96
spatiosus, *Penion* 96

- spectabilis*, *Valsantia* 135
spenceri, *Livonia* 111
spenceri, *Voluta* 111
spengleri, *Cabestana* 83
sphaerodoma, *Cypraea* (*Umbilia*) 76
sphaerodoma, *Cypraea* 76
sphaerodoma, *Umbilia* 76
sphaerodoma var? *Cypraea* 77
sphericula, *Anodontia* 170
sphericula, *Meretrix* 170
sphericula, *Pegophysema* 170
spinicarinatum, *Calliostoma* (*Laetifautor*) 47
spinicarinatus, *Laetifautor* 47
spiniferum, *Columbarium* 85
spiniferus, *Fusus* 85
spinulatum, *Columbarium* 85
spinulosa, *Cardita* 165
spinulosa, *Glans* 165
spinulosa, *Rotundocardia* 165
spiraliscabra, *Hinia* (*Reticunassa*) 97
spiraliscabra, *Nassa* 97
spiraliscabra, *Tritia* 97
spiraliscabrus, *Nassarius* (*Zeuxis*) 97
spiralistriata, *Austroharpa* 105
spirata, *Austroharpa* (*Palamharpa*) 105
spirata, *Austroharpa* 105
spirata, *Harpa* 105
spirata, *Nevia*, 117
spirata, *Trameharpa* 105
Splendrillia (*Hauturua*?) sp. 124
Splendrillia sp. 124
Splendrillia? sp. 124
Spoelia sp. 140
spondyloides, *Spondylus* 160
spondyloides var, *Pecten* 160
spondyloides, *Pecten* 160
squalena, *Cypraea* (*Trona*) 74
squamocostatus, *Serripecten* 156
squamogranosa, *Architectonica* (*Discotectonica*) 135
squamogranosa, *Discotectonica* 135
squamoidea, *Montfortula* 40
squamosa, *Acar* sp. cf. *Acar* 147
squamosa, *Barbatia* (*Acar*) sp. cf. *B.* (*A.*) 147
squamulatus, *Serratifusus* 97
squamundata, *Notochlamys*? 155
squarrosa, *Pseudoninella*? 42
staminea, *Leucozonia* (*Latirolagena*) 99
staminea, *Leucozonia* 99
stamineus, *Lathyrus* (*Mazzalina*) 99
stansburiensis, *Aturia* 189
statiolitoralis, *Echinophoria* 80
steiroides, *Filodrillia* 121
steiroides, *Microdrillia* 121
stellatus, *Serratifusus* 97
stenopyrgisca, *Seila* 60
stephensi, *Alcithoe* (*Cottonia*) 111
stephensi, *Livonia* 111
stephensi, *Voluta* 111
stevensiana, *Rissoa* 66
stevensiana, *Rissoina* 66
stillata, *Trochaclis*? 41
stirlingi, *Macomona* 173
stirlingi, *Tellina* 173
stiza, *Drillia* 124
stiza, *Drillia*? 124
stolida, *Nannamoria* 108
stolida, *Paramoria* 108
stolida, *Voluta* 108
strangei subsp., *Limatula* 162
strangei, *Humphreyia* 183
strangei, *Neotrignonia* 163
strangei subsp. indet. *Limatula* (*Limatula*) 162
stratosculptus stratosculptus, *Semiactaeon* 136
stratosculptus, *Acteon* 136
striatularis, *Glycymeris* (*Tucetilla*) 148
striatularis, *Glycymeris* 148
strigata, *Spectamen* 47
strigata, *Minolia* 47
strombiformis, *Marginella* 113
strombiformis, *Serrata* 113
strombodiformis, *Conomitra* 87
Strombus (*Lentigo*) sp. 71
Strombus (*Tricornis*?) sp. 70
Strombus, s.l. sp. 70
Strombus? sp. 70
strophodon, *Cymbiola* 108
strophodon, *Nannamoria* 108
strophodon, *Nannamoria strophodon* 108
strophodon, *Voluta* (*Aulica*) 108
strophodon, *Voluta* 108
sturtiana, *Mimachlamys* 158
sturtiana, *Ostrea* 154
sturtiana, *Ostrea* sp. cf. *O.* 154
sturtianus, *Pecten* 158
sturtii, *Turritella* (*Ctenocolpus*) 52
sturtii, *Turritella* 52
stylacris, *Mesalia* 54
stylacris, *Pareora* 54
styliformis, *Fusus* 101
styliformis, *Sipho* 101
styliformis, *Solutofusus* 101
Styliola? sp. 140
subacricula, *Gazameda* 53

- subacricula*, *Turritella* (*Gazameda*) 53
subalveolatus, *Muricopsis* 88
subampliata, *Amalda* 103
subampliata, *Ancillaria* 103
subaustralis, *Proterato* (*Cypraeerato*) 71
subaustralis, *Sulcerato* 71
subbicolor, *Amphithalamus* (*Pisinna*) 57
subbicolor, *Crassitoniella* 57
subbicolor, *Crassitoniella erratica* 57
subbifrons, *Chlamys* (*Equichlamys*) *bifrons* 155
subbifrons, *Chlamys* (*Equichlamys*) 155
subbifrons, *Pecten* 155
subcalvatus, *Rhinoclavis* 57
subcalvatus, *Semivertagus* 57
subcatenifera, *Gemmaterebra* 120
subcatenifera, *Terebra* 120
subcompacta, *Cyclocardia* (*Scalaricardita*) 165
subcompacta, *Scalaricardita* 165
subcompacta, *Venericardia* 165
subconcava, *Pleurotoma* 134
subconcava, *Veruturris* 134
subconcavus, *Xenuroturris* (*Veruturris*) 134
subcontusa, *Austrocypraea* 74
subconvexum, *Mesopeplum* 159
subconvexus, *Pecten* 159
subcopiosus, *Nassarius* (*Zeuxis*) 97
subcostatum, *Amusium* 159
subcostatum, *Ylistrum* 159
subcrenularis, *Microvoluta* 87
subcrenularis, *Microvoluta* cf. *M.* 87
subcrenularis, *Mitra* (*Costellaria*) 87
subcrenularis, *Volutomitra* 87
subcrenularis, *Waimatea* 87
subcrenulifera, *Athleta* (*Ternivoluta*) 106
subcrenulifera, *Ternivoluta* 106
subdeceptiva, *Cardita* 164
subdistortum, *Austrotriton* 83
suberosa, *Aulacomya* 152
suberosus, *Brachidontes* 152
subfenestratus, *Septifer* 152
subfilicea, *Cominella* 95
subfissura, *Dentalium* (*Laevidentalium*) 187
subfissura, *Dentalium* 187
subfissura, *Entalis* 187
subfissura, *Laevidentalium* 187
subflexuosa, *Thyasira* 170
subflexuosus, *Cryptodon* 170
subfusca, *Turbonilla* (*Chemnitzia*) 142
subfusca, *Turbonilla* 142
subglabra, *Eucithara* 94
subgradata, *Amalda* 103
subgradata, *Ancilla* 103
subgradata, *Ancillaria* 103
subgranaria, *Cacozeliana* 55
subgranarium, *Bittium* (*Semibittium*) 55
subgranosa, *Phalium* (*Semicassis*) 81
subgranosa, *Semicassis* 81
subgranosum, *Phalium* (*Semicassis*) 81
subinfundibulum, *Eunaticina* 78
subinfundibulum, *Natica* 78
subinfundibulum, *Sigaretotrema* 78
subjugum, *Polinices* (*Polinices*) 78
subjugum, *Polinices* 78
subjugum, *Uber* 78
sublabiata *Crossea* 64
sublabiata, *Dolicrossea* 64
sublaevis, *Murex* (*Phyllonotus*) 89
sublaevis, *Paziella* 89
sublaevis, *Poiriera* 89
sublirella, *Nasa* [sic] (*Niotha*) 98
sublirellus, *Nassarius* (*Niotha*) 98
sublirellus, *Nassarius* 98
submaculosum, *Acrosterigma* 172
submaculosum, *Vasticardium* (*Vasticardium*) 172
submenkeanus, *Brachidontes* 152
submenkeanus, *Mytilus* 152
submultistriata, *Cytherea* 179
submultistriata, *Meretrix* 179
submultistriata, *Notocallista* (*Striacallista*) 179
subnitidus, *Guraleus* (*Euguraleus*) 126
subnitidus, *Guraleus* 126
subnoae, *Natica* 79
subnoae, *Taniella* 79
subnodulosa, *Lima* (*Limatula*) 162
suboctogonus, *Hexaplex* (*Murexsul*) 89
suboctogonus, *Murexsul* 89
suborbicularis, *Numella* 175
suborbicularis, *Sacchia* 175
subpecten, *Pleuromeris* 166
subpyrulata, *Cypraea* 75
subpyrulata, *Notoluponia* 75
subquadrata, *Diplodonta* 175
subquadrata, *Liotina* (*Munditia*) 47
subquadrata, *Munditia* 47
subquadrata, *Trichotropis* 69
subquadratus, *Sirius* 69
subquinqidens, *Austroginella* 114
subquinqidens, *Marginella* (*Eratoidea*) 114
subquinqidens, *Marginella* 114
subradians, *Glycymeris* 149
subrectangularis, *Anisodonta* 171
subrectangularis, *Solecurtus* 171
subreflexa, *Siphonalia* 96
subregularis, *Notoluponia* 75

- subregularis*, *Notoluponia ficoides* 75
subreticulata, *Phycothais* 93
subreticulata, *Ricinula* 93
subroborata, *Chione* 180
subroboratum, *Placamen* 180
subrostata, *Cuspidaria* 185
subrostata, *Neaera* 185
subrudis, *Maoricolpus* 53
subrudis, *Turritella* (*Maoricolpus*) *murrayana* 53
subscalatus, *Acteon* 136
subsidua, *Austrocypraea* 74
subsidua, *Cypraea* 74
subsimpler, *Cantharidus* (*Phasianotrochus*) 43
subsimpler, *Phasianotrochus* 43
subspectabilis, *Duplicaria* 120
subspectabilis, *Strioterebrum* (*Pervicacia*) 120
subspectabilis, *Terebra* 120
substolida, *Austrocochlis* 80
substolida, *Natica* 80
subtabulata, *Calyptrea* 67
subtabulata, *Sigapatella* 67
subtilicostata, *Proxichione* 178
subtilis, *Ericusa* 111
subtilis, *Nototrivia* 72
subtilis, *Notovoluta kreuslerae* 111
subtilis, *Trivellona* 72
subtrigonalis, *Glycymeris* (*Tucetona*) 149
subtrigonalis, *Glycymeris* 149
subtrigonalis, *Pectunculus* 149
subtrigonalis, *Tucetona* 149
subula, *Styliola* 140
subundulata, *Eotrigonia* 163
subundulata, *Trigonia* 163
subundulosa, *Dennantia* 99
subundulosa, *Peristernia* 99
subvarians, *Conuber* 78
subvarians, *Natica* 78
subvarians, *Polinices* (*Conuber*) 78
subvaricosa, *Chileutomia* 67
succincta, *Dennantia* 99
succincta, *Peristernia* 99
succinctus, *Trophon* 99
sufflata, *Semicassis* (*Antecephalium*) 81
sufflata, *Semicassis* 81
sufflatum, *Antecephalium* 81
sufflatum, *Phalium* 81
sufflatus, *Cassis* 81
sulcata, *Pyramidella* 136
sulcata, *Triforis* 61
sulcata, *Triphora* 61
sulci, *Afossochiton* 195
sulci, *Callochiton* (*Ocellochiton*) 193
sulci, *Callochiton* 193
Sulcobuccinum sp. 102
sulcosa, *Austroharpa* (*Palamharpa*) 105
sulcosa, *Austroharpa* 105
sulcosa, *Harpa* 105
superspiralis, *Cerithiella* (*Coxellaria*) 60
superspiralis, *Coxellaria* 60
suppresa, *Epideira* 125
suppresa, *Epideira selwyni* 125
suppresa, *Epidirona* 125
suturalis, *Diala* 55
Sydaphera? sp. 117
symbolicum, *Campanile* 51
syringianus, *Siphonochelus* 93
Syrnola sp. 141
tabulata subsp., *Notovoluta* 107
tabulata, *Cabestana* 83
tabulata, *Cerithioderma* 68
tabulata, *Cymbiola* (*Cymbiola*) 108
tabulata, *Notovoluta* 108
tabulata, *Notovoluta tabulata* 107
tabulata, *Trichotropis* 68
tabulata, *Voluta tabulata* 107
talla, *Gibberula* 115
talla, *Marginella* 115
talla, *Mesoginella*, 115
talla, *Volvarina* (*Sinuginella*) 115
Talochlamys sp. 157
tarda, *Gryphaea* 155
tardicrescens, *Nassaria* 98
tardicrescens, *Phos* 98
tardior, *Acteon* 136
tardior, *Semiactaeon* 136
tasmanica, *Austroliotia* 47
tasmanica, *Calliostoma* 46
tasmanica, *Cardita* 164
tasmanica, *Cumia?* 94
tasmanica, *Liotina* (*Munditia*) 47
tasmanica, *Pisinna* 65
tasmanica, *Puposyrnola* 141
tasmanica, *Rotundicardia* 164
tasmanica, *Syrnola* (*Puposyrnola*) 141
tasmanica, *Trivellona* 77
tasmanica, *Willungia* 77, 116
tasmanicus, *Epidromus* 94
tasmanicus, *Triton* 94
tasmanicus, *Zizyphinus* 46
tasmaniensis, *Maoricolpus* 53
tasmaniensis, *Turritella* (*Gazameda*) *acricula* 53
tateana, *Spinomelon* 110
tateana, *Alcithoe* (*Waihaoia*) 110
tateana, *Atrina* (*Servatrina*) 153

- tateana*, *Atrina* 153
tateana, *Fusus* 101
tateana, *Haurakia* 66
tateana, *Notovoluta* 110
tateana, *Rissoina* 66
tateana, *Voluta* 110
tateanus, *Austrolithes* 101
tateanus, *Fusus* 101
tatei, *Ancilla* (*Baryspira*) 103
tatei, *Ancilla* 103
tatei, *Aneurystoma*, 117
tatei, *Anomia* 161
tatei, *Asthenotoma* 131
tatei, *Austroharpa* (*Palamharpa*) 105
tatei, *Austroharpa* 105
tatei, *Austrotriton* 82
tatei, *Baryspira* 103
tatei, *Borsonia* 121
tatei, *Borsonia* sp. aff. *B.* 121
tatei, cf. *Fossacallista* 179
tatei, *Chavanicerithium* 56
tatei, *Cinguliturris* 131
tatei, *Crassatella* 167
tatei, *Cuspidaria* 185
tatei, *Cypraea* 76
tatei, *Cytherea* 178
tatei, *Dennantia* 98
tatei, *Dentalium* (*Gadilina*) 187
tatei, *Eumargarita* (*Turcicula*) 43
tatei, *Gadilina* 187
tatei, *Harpa* (*Austroharpa*) 105
tatei, *Heliconoides* 139
tatei, *Hinnites* 155
tatei, *Lamellileda* 145
tatei, *Latirus* 98
tatei, *Limacina* 139
tatei, *Mitra* 86
tatei, *Nassa* (*Hima*) 97
tatei, *Nassa* 97
tatei, *Nassarius* (*Hima*) 97
tatei, *Notocallista* (*Fossacallista*) 178
tatei, *Nototrivia* 72
tatei, *Nucula* 143
tatei, *Oamaruia* 117
tatei, *Ostrea*, 154
tatei, *Pecten* 150
tatei, *Poroleda* 145
tatei, *Pronucula* 143
tatei, *Proterato* (*Proterato*) 71
tatei, *Proterato* 71
tatei, *Ringicula* 136
tatei, *Sassia* 83
tatei, *Scaphander* 139
tatei, *Sigapatella* 67
tatei, *Siphonalia* 101
tatei, *Thericium* (*Chavanicerithium*) 56
tatei, *Trigonia* 163
tatei, *Tritia* 97
tatei, *Trivellona* 72
tatei, *Umbilia* (*Umbilia*) 76
tatei, *Umbilia* 76
tatei, *Vanikoroa* 79
tatei, *Veruturris* (*Cinguliturris*) 131
tatei, *Volvulella* 137
tatei, *Xenophora* (*Tugurium*) 69
tatei, *Xenophora* (*Xenophora*) 69
tatei, *Xenophora* 69
tatei, *Xenophora* sp. cf. *X.* 69
tatei, *Zegalerus* 67
tealei, *Notoluponia* 75
tealei, *Notoluponia tealei* 75
tela, *Phenacolepas* 51
telescopia *Exomilus* 130
Tellina (*s. l.*) sp. 173
Tellinid sp. 174
tellinoides, *Mysella* 171
tellinoides, *Rochefortia* 171
Tenagodus sp. 54
tenisoni, *Ennucula*, 143
tenisoni, *Fasciolaria* 100
tenisoni, *Limopsis* 151
tenisoni, *Nucula* (*Nucula*) 143
tenisoni, *Nucula* 143, 144
tenisoni, *Pleia* 100
tenisoni, *Terebra* 120
tenisoni, *Turbo* (*Euninella*) 49
tenisoni, *Turbo* 49
tenisoni, *Hastula* (*Nototerebra*) 120
Tenuiactaeon sp. 137
tenuicornis, *Murex* (*Chicoreus*) 90
tenuicornis, *Pterochelus* 90
tenuicornis, *Pterynotus* (*Pterochelus*) 90
tenuicostae, *Condylocardia* 166
tenuicostata, *Cumia* 95
tenuicostata, *Fulvia* 172
tenuicostata, *Glycymeris* (*Tucetilla*) 148
tenuicostata, *Glycymeris* 148
tenuicostata, *Pisania* 95
tenuicostatatum, *Laevicardium* (*Fulvia*) 172
tenuicostatus, *Epidromus* 95
tenuilirata, *Myadora* 185
tenuilirata, *Ringicula* 136
tenuilirata, *Tellina* (*Semelangulus*) 174
tenuiliratus, *Semelangulus* 174

- tenuis*, *Austroharpa* (*Palamharpa*) 105
tenuis, *Austroharpa* 105
tenuis, *Cytherea* 178
tenuis, *Eocithera* 105
tenuis, *Harpa* (*Eocithara*) 105
tenuis, *Harpa* 105
tenuis, *Meretrix* 178
tenuis, *Scaphander*, 139
tenuisculpta, *Belatomina* 131
tenuisculpta, *Daphnella*, 131
tenuissima, *Graphis* 134
tenuissima, *Turbonilla* 134
terebellata, *Turritella* 52
terebellum, *Terebellum* 70
Terebra sp. 120
terebraeformis, *Mitra* (*Costellaria*) 86
Teredinid, genus and species undetermined 183
Teredo sp. 183
teres, *Austroclavus* 131
tertiaria, *Spiralis* 139
tertiaria, *Limacina* 139
tertiaria, *Pleurotomaria* 38
tertiarius, *Heliconoides* 139
tertiarius, *Peretrochus* 38
tessellata, *Pseudoliva* (*Eburnopsis*) 102
tessellata, *Zemira* 102
tessellatus, *Eburnopsis* 102
tetragonostoma, *Crossea* 48
tetragonostoma, *Delphinula* 48
textile, *Austrotriton* 83
textile, *Lotorium* 83
textilis, *Cassis* 80
textilis, *Triton* 83
texturata, *Colubraria* 94
texturatus, *Epidromus* 94
Thalotia sp. 44
Tholitoma sp. 132
tholoides, *Fusus* (*Tectifusus*) 102
tholoides, *Fusus* 102
tholoides, *Tectifusus* 102
Thyasira sp. 170
tiara, *Barnea* 183
tincta, *Syrnola* (*Syrnola*) 141
tincta, *Syrnola* 141
tinela, *Rissoina* 66
tisurus, *Ischnochiton* 191
tomdarraghi, *Umbilia* (*Umbilia*) 76
tomdarraghi, *Umbilia* 76
tomopleuroides, *Veruturris* 134
tomopleuroides, *Xenuroturris* (*Veruturris*) 134
toolinnensis, *Abrachlamys* 155
tornatissima, *Omniglypta?* 187
tornatissimum, *Dentalium* (*Fustiaria*) 187
tornatissimum, *Dentalium* (*Episiphon*) 187
torquata, *Cordieria* 121
torquata, *Ninella* 50
torquatus, *Gemixystus* 92
torquatus, *Trophon* (*Zeatrophon*) 92
torquatus, *Trophon* 92
torquatus, *Turbo* (*Ninella*) 50
torquayensis, *Spoelia* 140
torquayensis, *Borsonia* 121
torquayensis, *Cancellaria* 116
torquayensis, *Comitas* 128
torquayensis, *Ellatrivia* 72
torquayensis, *Ellatrivia minima* 72
torquayensis, *Mauidrillia* 126
torquayensis, *Sydaphera* 116
torrensensis, *Arthritica* 171
torrensensis, *Properycina* 171
torri, [sic], *Thericium* (*Chavanicerithium*) 56
torrii, *Cerithium* 56
torrii, *Chavanicerithium* 56
torrii, *Thericium* 56
tortirostris, *Austrosassia* 82
tortirostris, *Charonia* (*Austrosassia*) 82
tortirostris, *Cymatium* 82
tortirostris, *Lotorium* 82
tortirostris, *Sassia* 82
tortirostris, *Triton* 82
toxorhyncha, *Cypraea* 73
toxorhyncha, *Zoila* (*Zoila*) 73
transenna, *Cirsotrema* 62
transenna, *Emarginula* 39
transenna, *Fusinus* (*Microcolus*) 101
transenna, *Fusus* 101
transenna, *Glyptozaria* 55
transenna, *Limea* 162
transenna, *Peristernia* 101
transenna, *Scalaria* (*Cirsotrema*) 62
transenna, *Semicassis* 81
transenna, *Turritella* 55
transennum, *Antephalium* 81
transennus, *Microcolus* 101
transiens, *Nototrivia* 72
transiens, *Trivellona* 72
translucidum, *Notopeplum* 112
translucidum, *Notopeplum mccoysi* 112
trapezia, *Myochama* 184
trevori, *Splendrillia* 124
trevori, *Drillia* 124
trianguloides, *Acanthochiton* 194
trianguloides, *Acanthochitona* 194
tricingulatus, *Clanculus* (*Euriclanculus*) 43

- tricingulatus*, *Clanculus* 43
Tricornis? sp. 70
tridentatus, *Hexaplex?* 88
tridentatus, *Murex (Ocinebra)* 88
triformis, *Pterochelus* 90
triformis, *Pterynotus (Pterynotus)* 90
trigemmata, *Cerithiella (Coxellaria)* 59
trigemmata, *Cerithiella* 59
trigemmata, *Coxellaria* 59
trigonale, *Bornia* 171
trigonale, *Lepton* 171
trigonalis, *Cardita* 166
trigonalis, *Pleuromeris* 166
trigonella, *Spisula (Notospisula)* 176
trigonella, *Spisula* 176
Trigonostoma (Arizelostoma) sp. 118
Trigonostoma sp. 118
trilirata, *Pleurotoma* 131
trilix, *Colpospira (Platycolpus)* 52
trilix, *Platycolpus* 52,
trilix, *Turritella (Ctenocolpus)* 52
trinervis, *Inquisitor* 129
trinervis, *Pseudinquisitor* 129
trinodosa, *Echinophoria* 80
trinodosa, *Semicassia* 80
trinodosum, *Phalium (Echinophoria)* 80
trinodosus, *Murex (Pteronotus)* 91
trinodosus, *Pterynotus (Pterochelus)* 91
trionyma, *Nannamoria* 109
triplanicincta, *Seila (Notoseila)* 60
triplanicincta, *Seila* 60
triplicata, *Amaea (Amaea)* 63
triplicata, *Amaea* 63
triplicata, *Scalaria (Eglisia)* 63
triplicata, *Trichotropis* 69
triplicatus, *Sirius* 69
tripterus, *Typhis* 93
triquetrum, *Dentalium?* 187
trirugulata, *Proximitra* 87
triseriale, *Campanile* 51
trispiralis, *Mauidrillia* 126
tristira, *Colpospira (Colpospira)* 52
tristira, *Colpospira* 52
tristira, *Turritella* 52
Trituba sp. 60
trivialis, *Fusus* 100
trivialis, *Propofusus* 100
Trochid sp. 46
Trochid sp. B 46
trochispira, *Hexaplex* 88
trochispira, *Murex (Ocinebra)* 88
trophonalis, *Etrema* 94
trophonalis, *Retizafra* 94
trophonalis, *Retizafra?* 94
trua, *Neotrigonia* 163
trucidata *Splendrillia* 124
trucidata, *Austrodrillia* 124
Tuba sp. 1 134
Tuba sp. 2 135
tuberculata, *Cominella* 95
tuberculatum, *Astele (Pulchrastele)* 45
tuberculatum, *Pulchrastele* 45
tuberculatus, *Phos* 95
tubulifera, *Eotrigonia* 162
tubulifera, *Trigonia* 162
Tucetona sp. 149
Tugali? sp. 40
tumefacta, *Marshallaria* 133
tumida, *Leucozonia* 99
tumida, *Nucula*, 143, 144
tumida, *Pisinna*, *tumida* 65
tumidula, *Notadusta* 77
tumulosum, *Austrotriton* 83
tumulosum, *Lotorium* 83
tumulosus, *Triton* 83
turbinata, *Calyptropsis* 68
turbinata, *Trochita* 68,
turbinata, *Tudicula* 84
turbinatum, *Tudivasum* 84
Turbonilla sp. 142
Turehua sp. 118
turricula, *Filodrillia* 121
turriculata, *Cancellaria* 116
turriculata, *Inglisella* 116
turrita, *Cumia* 95
turrita, *Etrema* 122
turrita, *Filodrillia* 126
turrita, *Mauidrillia* 126
turritelliforme, *Bittium* 61
turritelliformis, *Seilarex* 61
turritus, *Epidromus* 95
typica, *Janthina* 63
tyria, *Angaria* 42
ultima, *Zenatiopsis* 177
Umbilia sp. 76, 77
umbilicata, *Calyptropsis* 68
umbilicata, *Crepidula* 68
umbilicatum, *Eunaticina* 78
umbilicatum, *Sigaretotrema* 78
umboseriata, *Trituba (Granulotriferis)* 60
umboseriata, *Trituba* 60
uncifera, *Cymbiola* 112
uncifera, *Voluta* 112
undosum, *Astraliium (Imperator)* 49

- undosum*, *Bellastraea* 49
undosus, *Pterochelus* 90
undosus, *Pterynotus* (*Pterochelus*) 90
undulata, *Amoria* 108
undulata, *Calyptraea* 67
undulata, *Sigapatella* 67
undulata, *Sydaphera* 117
undulatus, *Lunella* 49
undulatus, *Turbo* (*Subninella*) 49
undulosa, *Gomphina* 181
unguiformis, *Crepidula* 68
uniangulata, *Colposigma* 52
unicingulata, *Austrocarina*? 125
uniliratum, *Columbarium* 85
uniophora, *Neotrigonia* 163
uniplica, *Eumitra* 104
uniplica, *Mitra* (*Eumitra*) 104
Unitas sp. 118
ustulata, *Duplicaria* 120
uxellus, *Lepidopleurus*? 191
uxellus, *Leptochiton* 191
uxellus, *Terenochiton* 191
vagans, *Leda* 145
vagans, *Nuculana* (*Saccella*) 145
vagans, *Nuculana* 145
vagans, *Saccella* 145
Vaginella sp. 140
vaginoides, *Solen* 182
valida, *Limopsis chapmani* 150
validicostata, *Voluta* 111
validior, *Gonimyrtea* 169
valvatina, *Limacina* 139
vardoni, *Epideira* 125
vardoni, *Epidirona* 125
vardoni, *Surcula* 125
varena, *Lorica* 193
varenae, *Ischnochiton* 191
variabilis, *Anapa* 177
variabilis, *Anapella* 177
variabilis, *Collonia* 50
variabilis, *Cryptocordieria* 132
varians, *Natica* 78
varicifer [sic], *Cyrtochetus* (*Loxotaphrus*) 118
varicifera, *Bonellitia* 117
varicifera, *Cancellaria* 117
varicifera, *Estea* 65
varicifera, *Pisinna varicifera* 65
varicifera, *Rissoina* 65
variciferus, *Fusimorio* 118
variciferus, *Loxotaphrus* 118
variciferus, *Phos* (*Loxotaphrus*) 118
variciferus, *Phos*(?) 118
varicosa, *Mitra* (*Eumitra*) 106
varicosus, *Cantharus* 117
varicosus, *Semitriton* 117
variculifera, *Notovoluta* 107
variegata, *Phasianella* 50
varilirata, *Cyclostrema* 48
varilirata, *Partubiola* 48
varilirata, *Tubiola* (*Partubiola*) 48
varisculpta *Alvania* 66
varisculpta, *Merelina* (*Linemera*) 66
Vasum sp. 84
veitchi, *Brechites* (*Foegia*) 184
veitchi, *Kendrickiana* 184
velificus, *Murex* (*Pteronotus*) 90
velificus, *Timbellus* 90
vellicata, *Cuspidaria* 185
ventricosa, *Leucorhynchia* 48
venusta, *Cochlespira* 124
venusta, *Coronasyrinx* 124
venusta, *Ennucula* 144
venusta, *Nucula* (*Ennucula*) 144
venusta, *Nucula* 144
venusta, *Syntomodrillia* 125
venustulum, *Ataxocerithium* 59
verconis, *Notovoluta* 107
verconis, *Nuculana* (*Scaeoleda*) 145
verconis, *Scaeoleda* 145
verrucosa, *Cymatiella* 83, 84
Verticordia sp. 186
Veruturris sp. 134
vesiculare, *Pycnodonte* sp. cf. *P.* 154
vesiculosa, *Semele* 175
vialis, *Danilia* 42
viathomsoni, *Zoila* 73
victoriae, *Acrosterigma* 172
victoriae, *Cardium* 172
victoriae, *Makiyamaia* 123
victoriae, *Vaginella* 140
victoriae, *Zenatina* 177
victoriana, *Notadusta* 77
victorianum, *Eutrephoceras* 188
victorianus, *Nautilus* 188
victoriensis, *Gazameda victoriensis* 53
victoriensis, *Lentipecten* 157
victoriensis, *Notopeplum* 112
victoriensis, *Scaphella* 112
victoriensis, *Turritella* (*Gazameda*) *acricula* 53
victoriensis, *Victoripecten* 157
Vimentum? sp. 165
vinazus, *Ischnochiton* 191
vincentensis, *Carditella* 165
vincentensis, *Cyclocardia* (*Scalaricardita*) 165

- vincentiana*, *Tellina* (*Semelangulus*) 174
vincentianus, *Semelangulus* 174
violaceus, *Capulus* 68
violaceus, *Trichamathina* 68
virginiense, *Campanile* 51
Viriola? sp. 61
vitreoides, *Fusus* 102
vitreus, *Dissochilus* 64
vivarirex, *Periploma* 185
vixcostata, *Turbonilla* (*Pyrgolampros*) 142
vixcostata, *Turbonilla* 142
vixornata, *Limopsis* (*Limopsis*) 151
vixornata, *Limopsis* 151
vixumbilicata, *Conuber* 78
vixumbilicata, *Drillia* 129
vixumbilicata, *Natica* 78
vixumbilicata, *Polinices* (*Conuber*) 78
vixumbilicata, *Vixinquisitor* 129
voluminosa, *Livonia* 111
volutiformis, *Guraleus*, 127
vulsum, *Columbarium* 85
vulsum, *Columbarium acanthostephes* 85
wallacei, *Murex* 89
wallacei, *Subpterynotus* 89
wangerrip, *Athleta* (*Athleta*) 105
wangerrip, *Athleta* 105
wannonensis, *Aphera* (*Sydaphera*) 117
wannonensis, *Architectonica* (*Discotectonica*) 135
wannonensis, *Cancellaria* 116
wannonensis, *Emarginula* 39
wannonensis, *Heliacus* (*Claraxis*) 135
wannonensis, *Heliacus* 135
wannonensis, *Merica* 117
wannonensis, *Solarium* 135
wannonensis, *Sydaphera* 116
warburtonii, *Colpospira* (*Platycolpus*) 52
warburtonii, *Platycolpus* 52
warburtonii, *Turritella* (*Ctenocolpus*) 52
warburtonii, *Turritella* 52
weeahensis, *Turbonilla* 142
weegeeree, *Periglypta* 178
weldi, *Vespertilio* 108
weldii, *Cymbiola* 108
weldii, *Nannamoria* 108
weldii, *Paramoria* 108
weldii, *Voluta* 108
wentworthi, *Marginella* (*Eratoidea*) 114
wentworthii, *Marginella* 114
wentworthii, *Protoginella* 114
werrikoensis, *Limopsis* 151
westraliense, *Chavanicerithium* 56
westraliense, *Thericium* (*Chavanicerithium*) 56
weymouthensis, *Cryptospira* 115
weymouthensis, *Etrema* 122
weymouthensis, *Serrata* 115
weymouthensis, *Taniella* 79
widningae, *Turbonilla* (*Chemnitzia*) 142
widningae, *Turbonilla* 142
wilkinsoni, *Apiotoma?* 123
wilkinsoni, *Callitriphora* 61
wilkinsoni, *Triforis* 61
wilsoni, *Amyclina* 97
wilsoni, *Cassidaria* 80
wilsoni, *Echinophoria* 80
wilsoni, *Galeodea* 80
wilsoni, *Nassarius* (*Gussonea*) 97
wilsoni, *Tritia* 97
wilya, *Cerithium* 55
winkleri, *Marginella* (*Serrata*) 113
winteri, *Exiginella* 113
winteri, *Marginella* 113
winteri, *Serrata* 113
wintlei, *Friginatica* 79
wintlei, *Natica* 79
wirrata, *Ellatrivia* 72
wirrata, *Trivellona* 72
woodsii [sic], *Belophos* 131
woodsii, *Antizafa* 94
woodsii, *Columbella* 94
woodsii, *Leda* 145
woodsii, *Lotorium* 83
woodsii, *Marginella* 114
woodsii, *Nuculana* (*Scaeoleda*) 145
woodsii, *Nuculana* 145
woodsii, *Scaeoleda* 145
woodsii, *Serrata* 114
woodsii, *Austrotriton* 83
woodsii, *Bela* 131
woodsii, *Cylichna* 138
woodsii, *Euchelus* 41
woodsii, *Herpetopoma* 41
woodsii, *Roxania* 138
woodsii, *Triton* 83
woolnoughi, *Cerithiopsis* 60
woolnoughi, *Zaclys* 60
wurongae, *Turbonilla* (*Chemnitzia*) 142
wurongae, *Turbonilla* 142
wynyardense, *Potamides* 56
wynyardense, *Thericium* (*Chavanicerithium*) 56
wynyardensis, *Comitas* 128
wynyardensis, *Pleurotoma* 128
wynyardensis, *Pseudoischnochiton* 191
wynyardensis, *Voluta* 111
Xenophora sp. 69

- yahlensis* [sic], *Pecten* 156
yahliensis, *Pecten* 156
yahliensis, *Serripecten* 156
yatalensis, *Cadulus* (*Dischides*) 188
yatalensis, *Dischides* 188
yatesi, *Monstrotyphis* 93
yatesi, *Typhis* (*Typhina*) 93
yorkensis, *Cimomia* 189
youngi, *Fusinus* 97
youngi, *Plicatula* 160
youngi, *Serratifusus*? 97
zelandica, *Siphonaria* 143
- Zelandiella?* sp. 96
Zemira sp. 102
Zemysia sp. 175
Zenatia (*Zenatiopsis*) sp. 177
Zenatiopsis sp. 177
ziczac, *Aturia*, cf. A. 189
ziczac, *Nautilus* 189
zitteli, *Amusium* 160
zitteli, *Pecten* 160
Zoila sp. 74
zonale, *Sinum* (*Ectosinum*) 79
zonale, *Sinum* 79