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# A checklist of Australian marine Cenozoic Mollusca

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**Abstract** Darragh T.A. 2024. A checklist of Australian marine Cenozoic Mollusca. *Memoirs of Museum Victoria* 83: 37–206.

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 synonomy 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. A*ge:* 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**
*Perotrochus* P. Fischer, 1885

***Perotrochus tertiarius* (McCoy, 1875) comb. nov.**

*Pleurotomaria tertiaria* 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.

***Perotrochus 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 ovinoides* McCoy, 1876**

*Haliotis ovinoides* 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 occlusa* (Tate, 1898)**

*Subemarginula occlusa* Tate, 1898a: 405, pl. 20, figs 9a, b.
*Montfortula occlusa* (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. 3l; 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.
*Liopyrga* [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* Crespin, 1926**

*Cantharidus multicinctus* Crespin, 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 laxegemmatus* Ludbrook, 1941**

*Phasianotrochus laxegemmatus* Ludbrook, 1941: 83, pl. 4, fig. 4.
*Cantharidus* (*Phasianotrochus*) *laxegemmatus* (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 pliocenicus* Ponder, 1985**

*Botelloides borda pliocenicus* 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 Crespin, 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* (Valenciennses, 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 flindersi darraghi* Beu and Ponder, 1979**

*Bolma flindersi darraghi* Beu and Ponder, 1979: 20, Figs 5a–h.
*Bolma* (*Bolma*) *flindersi 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 Calcarenite. 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* (*Micrastraea*) *rutidoloma* (Tate, 1893).—Ludbrook, 1978: 102, pl. 10, figs 24, 25.

*Distribution*. Eucla Basin: Roe Calcarenite. 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 Calcarenite. 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. 57l.

*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, Werrikoo 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.

Inraclass Caenogastropoda
"Architaenioglossa"
Order Ampullariida
Superfamily Campaniloidea
**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. 11I.

*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: Werrikoo 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 occlusus* Tenison Woods, 1877**

*Tenagodus occlusus* Tenison Woods, 1877: 100.
*Tenagodus* sp. Darragh and Kendrick, 2008: 233, Figs 2.11, 2.15.
*Tenagodus occlusus* 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 Keyzer, 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, 3a, 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*) *torri* [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 Calcarenite (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 Calcarenite (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 apheles* (Tenison Woods, 1879)**
(Type species of genus OD)

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

*Jetwoodsia apheles* (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 Calcarenite. 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 Calcarenite. 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 Calcarenite. 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 serotinoides* Chapman and Crespin, 1928**

*Ataxocerithium serotinoides* 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* Jousseaume, 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**
*Viriiola* Jousseaume, 1884

***Viriola*? Sp.**

*Viriola*? sp. Darragh, 2017: 57, Fig. 4.34.

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

*Mastoniaeforis* Jousseaume, 1884

***Mastoniaeforis pagodiformis* Darragh, 2017**

*Mastoniaeforis 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**

*Triforis sulcata* Tenison Woods, 1879a: 233, pl. 20, fig. 12.

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

***Triphora planata* Tenison Woods, 1879**

*Triforis 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)

*Triforis wilkinsoni* Tenison Woods, 1879a: 233, pl. 20, fig. 9.
*Triforis 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* (Angas, 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 Epitonioidea
**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, l (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)**

*Hydrococus 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.

*Pisanna 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 Iravadiidae**
*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* (*Pelecydium*) *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**
*Merelina* 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.

*Melanella* (*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* Laseron, 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 Calyptreida
Superfamily Calyptraeoidea
**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 calyptraeformis* 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*) *hainsworthi* [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)**

*Pelicaria marwicki* Finlay, 1931: 17.
*Pelicaria 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)**

*Pelicaria 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)**

*Pelicaria coronata* Tate, 1885a: 2.—Tate, 1889: 171, pl. 10, figs 6, 13.
*Struthiolaria* (*Pelicaria*) *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 Calcarenite (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

***Laevitrombus 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 Calcarenite. *Age*: late Pliocene.

*Tricornis* Jousseaume, 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* Jousseaume, 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.

***Ellatrivia longisulcata* Schilder, 1932**

*Ellatrivia longisulcata* Schilder, 1932a: 256, fig. 1.—Fehse and Grego, 2010: 32, pl. 12, figs 51a–c.

*Ellatrivia longisulcata longisulcata* Schilder, 1935: 332, 334, fig. 10.

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

***Ellatrivia crassicostata* Schilder, 1935**

*Ellatrivia longisulcata crassicostata* Schilder, 1935: 332, 334, fig. 11.

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

***Ellatrivia antipodum* Schilder, 1935**

*Ellatrivia 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.

***Ellatrivia iredalei* Schilder, 1935**

*Ellatrivia 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.

***Ellatrivia constricta* (Schilder, 1941)**

*Ellatrivia antipodum* var. A Schilder, 1935: 333, fig. 6.

*Niveria* (*Ellatrivia*) *constricta* Schilder, 1941: 74.

*Ellatrivia constricta* (Schilder, 1941).—Fehse and Grego, 2010: 38, pl. 8, figs 36a–c.

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

***Ellatrivia columellaris* (Schilder, 1941)**

*Ellatrivia antipodum* var. B Schilder, 1935: 333, fig. 7.

*Niveria* (*Ellatrivia*) *columellaris* Schilder, 1941: 74.

*Ellatrivia columellaris* (Schilder, 1941).—Fehse and Grego, 2010: 38, pl. 8, figs 34a–c.

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

***Ellatrivia goudeyi* Fehse and Grego, 2012**

*Ellatrivia goudeyi* Fehse and Grego, 2012: 1, Figs 1A–N, 2A–L.

*Distribution*. Bass Basin: Memana Formation (type). *Age*: early Pleistocene.

***Ellatrivia merces* (Iredale, 1924)**

*Ellatrivia 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: 52, 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 platygyra* [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: Curlewis 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 Calcarenite (type). *Age*: late Pliocene.

***Zoila fodinata* Darragh, 2011**

*Zoila fodinata* Darragh, 2011b; 26, Figs 16K, L, N.

*Distribution*. Eucla Basin: Roe Calcarenite (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* Jousseaume, 1884
*Umbilia* (*Umbilia*)

***Umbilia* (*Umbilia*) *prosila* Darragh, 2002**

*Umbilia* (*Umbilia*) *prosila* 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*) *gastroplax* (McCoy, 1867)**

*Cypraea gastroplax* McCoy, 1867a: 18.—McCoy, 1867b: 194.

*Cypraea* (*Aricia*) *gastroplax* McCoy, 1867.—McCoy, 1875b: 20, pl. 16, fig. 1, 1a, pls 17, 18, fig. 2, 2a.

*Rhynchocypraea* (*Palliocypraea*) *gastroplax* (McCoy).—Cossmann, 1906: 239, pl. 9, figs 10, 11.

*Umbilia* (*Umbilia*) *gastroplax* (McCoy, 1867).—Schilder, 1927: 87, 136.

*Palliocypraea gastroplax* (McCoy).—Chapman, 1929: 202, pls 19, 20; Lorenz, 1989: 6, Fig. 5.

*Umbilia* (*Palliocypraea*) *gastroplax* (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* (*Cypraeidia*)[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* (*Neosmimnia*) *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 subvarians* (Tate, 1893)**

*Natica subvarians* Tate, 1893: 322, pl. 6, figs 8, 10.

*Polinices* (*Conuber*) *subvarians* (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.

*Globisinum* Marwick, 1924

***Globisinum 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.

***Globisinum 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.

***Globisinum 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 crassicostatus* 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 woodsi* [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: Werrikoo 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.
*Negyrina 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). Werrikoo Limestone. *Age*: late Miocene–early Pleistocene.

***Austrotriton subdistortum* (Lamarck, 1822)**

*Distribution*. Otway Basin: Goodwood Formation, Grange Burn Formation, Werrikoo 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 Marschlins, 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* (*Ocinebra*) *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* (*Ocinebra*) *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* (*Ocinebra*) *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* (*Ocinebra*) *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* (*Ocinebra*) *alveolatus* Tate, 1888: 108, pl. 3, fig. 12 non J. de C. Sowerby, 1823.

*Murex* (*Muricopsis*) *graniformis* Harris, 1897: 180 nom. nov. for *Murex* (*Ocinebra*) *alveolatus* Tate, 1888 non J. de C. Sowerby, 1823.

*Muricopsis subalveolatus* Cossmann, 1907; 200 nom. nov. for *Murex* (*Ocinebra*) *alveolatus* Tate, 1888 non J. de C. Sowerby, 1823.

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

***Hexaplex biconicus* (Tate, 1888)**

*Murex* (*Ocinebra*) *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.

*Bedeva crassiplicata* (Ludbrook, 1941).—Ludbrook, 1958: 60; Ludbrook, 1973: pl. 28, fig. 102.

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

*Liniaxis* Laseron, 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 perculta* Vokes, 1985**

*Murexiella perculta* 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* Jousseaume, 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* (*Subterynotus* 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 Calcarenite (type). *Age*: late Pliocene.

*Siratus* Jousseaume, 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, 188).—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* Jousseaume, 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 rhysus* (Tate, 1888)**

*Murex* (*Pteronotus*) *rhysus* Tate, 1888: 95, pl. 1, fig. 7.

*Pterochelus rhysus* (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 Calcarenite. 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*) *trinodosis* (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 polyphyllius* (Tenison Woods, 1879) comb. nov.**

*Trophon polyphyllia* Tenison Woods, 1879b: 7, pl. 2, fig. 1.
*Trophon polyphyllius* 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.
*Hadriania 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.

*Bedeva* Iredale, 1924

***Bedeva 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.

***Bedeva 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.

***Bedeva 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.

***Bedeva* sp.**

*Lepsiella* sp. Ludbrook, 1958: 146, pl. 20, figs 35, 36.

*Distribution*. Eucla Basin: Roe Calcarenite.

*Age* late Pliocene.

***Bedeva 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 mccoyii* 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* Cross and Fischer, 1865.—Ludbrook, 1978: 144, pl. 15, figs 22, 23.

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

*Siphonochelus* Jousseaume, 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* Jousseaume, 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**
*Dolicholatirus* Bellardi, 1884

***Dolicholatirus cingulata* (Pritchard, 1896) comb. nov.**

*Latirofusus 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.

***Dolicholatirus 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.

**FamilyColumbellidae**
*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, 1914).—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 turrita* (Tate, 1888) comb. nov.**

*Epidromus turritus* 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 liraecostatus* (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 *Austrosipho* 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* (*Austrosipho*) *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 Tudiclidae**
*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.
*Brocchitas 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.
*Latirus 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 Calcarenite. 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 meredithae* [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* (*Brocchitas*) *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 Calcarenite. 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 Calcarenite. 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 Calcarenite. 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. adelaidae* (Tate, 1889)**

*Gemmoliva* sp. cf. *G. adelaidae* (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 adelaidae* (Tate, 1888) comb. nov.**

*Oliva adelaidae* 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).
*Eocithera 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 Calcarenite (type). *Age*: late Pliocene.

***Lyria mitraeformis ovicampestris* Darragh, 1992**

*Lyria mitraeformis* (Lamarck, 1811).—Ludbrook, 1978: 164, pl. 18, figs 13, 14.

*Lyria mitraeformis crassicostata* Darragh, 1989: 212, pl. 28, figs 7–12 non Stoliczka, 1867.

*Lyria mitraeformis ovicampestris* Darragh, 1992: 135 nom. nov. for *Lyria mitraeformis crassicostata* 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 salaputium* Darragh, 1989**

*Mitreola salaputium* 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 stolida* (Johnston, 1880)**

*Voluta stolida* Johnston, 1880: 36.—Johnston, 1888: pl. 30, figs 4, 4a.

*Paramoria stolida* (Johnston, 1880).—Ludbrook, 1967: 68, pl. 3, figs 9, 10.

*Nannamoria stolida* (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* (*Volutoconus*) *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.

*Volutoconus conoideus* (Tate, 1888).—Cossmann, 1899: 131, pl. 7, fig. 3.

*Volutoconus 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* (*Volutoconus*) *limbata* Tate, 1888: 176, pl. 13, fig. 8.

*Voluta limbata* Tate, 1888: Tate, 1889: 125.

*Volutoconus 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* (*Waihaoia*) *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* (*Waihaoia*) *pagodoides pagodoides* (Tate, 1889).—Darragh, 1989: 239, pl. 12, figs 1, 4, 7, 10, 13, Fig. 17.

*Alcithoe* (*Waihaoia*) *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* (*Waihaoia*) *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* (*Waihaoia*) *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* (*Waihaoia*) *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* (*Waihaoia*) *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* (*Waihaoia*) *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* (Prichard, 1896)**

*Voluta spenceri* Pritchard, 1896: 98, pl. 4, figs 1, 2.
*Livonia spenceri* (Prichard, 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 hannafordi* (McCoy, 1866)**
(Type species of *Pterospira* Harris, 1897 OD)

*Voluta hannafordi* 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*) *hannafordi* 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 hannafordi* (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 hannafordi* (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 mccoyii* Tenison Woods, 1877.—Tate, 1889: 126, pl. 2, fig. 2 non Tenison Woods.

*Voluta maccoyii* 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 mccoyi 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 *Lataginella* Laseron, 1957 OD).

*Latiginella 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* Jousseaume, 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*) *wentworthi* 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* Jousseaume, 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* Jousseaume, 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* Jousseaume, 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* Jousseaume, 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 pullulescens* [sic] Tenison Woods, 1879.—Tate, 1890: 196; Tate, 1892, pl. 11, fig. 9.

*Conus* (*Lithoconus*) *pullulescens* [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*) *ralphi* 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 polycesta* 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 turrita* Chapple, 1941**

*Etrema turrita* 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.

*Etremopsis* Powell, 1942

***Etremopsis contigua* Powell, 1944**

*Etremopsis 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.

***Etremopsis opposita* Powell, 1944**

*Etremopsis 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 suppresa* Finlay, 1927**

*Pleurotoma selwyni laevis* Pritchard, 1904: 328, pl. 19, fig. 11 non Hutton, 1873.
*Epideira selwyni suppresa* 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* (*Eguraleus*) *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* (*Eguraleus*) *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* (*Eguraleus*) *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.**

*Mitrithara megale* Chapple, 1941: 121, pl. 14, fig. 2.

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

***Mitromorpha fenestrata* (Powell, 1944) comb. nov.**

*Mitrithara 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 hemiothhone* (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.

*Veprecula* Melvill, 1917

***Veprecula*? *adelaidensis* Powell, 1944**

?*Veprecula 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 woodsi* [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.

*Parasyngenochilus* Long, 1981

***Parasyngenochilus eocenicus* Long, 1981**
(Type species of the genus OD)

*Parasyngenochilus eocenicus* Long, 1981: 50, pl. 7, fig. 16.

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

**Parasyngenochilus? sp. b**

?*Parasyngenochilus* sp. b Long, 1981: 51, pl. 7, fig. 18.

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

***Parasyngenochilus angustior* Long, 1981**

*Parasyngenochilus angustior* Long, 1981: 50, pl. 7, fig. 17.

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

***Parasyngenochilus* sp. cf. *P. angustior* Long, 1981**

*Parasyngenochilus* 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.

*Syngenochilus* Powell, 1944

***Syngenochilus johannaensis* Long, 1981**

*Syngenochilus johannaensis* Long, 1981: 48, pl. 7, fig. 12.

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

***Syngenochilus radiapex* Powell. 1944**
(Type species of the genus OD)

*Syngenochilus 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 bisculpta* (Powell, 1944)**

*Xenuroturris* (*Veruturris*) *bisculptus* Powell, 1944: 11, pl. 1, fig. 4.—Ludbrook, 1958: 85, pl. 5, fig. 1.

*Veruturris bisculpta* (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, 1903**

*Mathilda 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*. Gipplsand 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 quindecemlirata* Darragh, 1997**

*Tornatellaea quindecemlirata* 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 Monotypy)

*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 woodsi* [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 Haminoeoidea
**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 Cavolinioidea
**Family Creseidae**
*Creseis* Rang, 1828

***Creseis* cf. *chierchiae* (Boas, 1886)**

*Creseis* cf. *chierchiae* (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 Pylopulmonata
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 brachyrynchoides* Darragh, 1997**

*Comitileda* sp. cf. *C. brachyryncha* Maxwell, 1992.—Darragh, 1994: 77, Figs 1K–M.

*Comitileda brachyrynchoides* Darragh, 1997: 99, Figs 11K, L.

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

*Ledella* Verril and Bush, 1897

***Ledella leptoryncha* (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* (*Saccella*) *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* (*Saccella*) *fontinalis* (Pritchard, 1901).—Ludbrook, 1961a: 58, pl. 2, figs 3, 4.

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

***Saccella 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* (*Saccella*) *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.

***Saccella 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.

*Scaeoleda* Iredale, 1929

***Scaeoleda crebrecostata* (Tenison Woods, 1877)**

*Leda crebrecostata* Tenison Woods, 1877: 112: Tate, 1886b: 133, pl. 5, figs 5a, b.

*Nuculana* (*Scaeoleda*) *crebrecostata* (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.

***Scaeoleda 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* (*Scaeoleda*) *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.

***Scaeoleda verconis* (Tate, 1891)**

*Nuculana* (*Scaeoleda*) *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.

***Scaeoleda acinaciformis* (Tate, 1886)**

*Leda acinaciformis* Tate, 1886b: 130, pl. 5, figs 6a, b.

*Nuculana acinaciformis* (Tate, 1886).—Harris, 1897: 349.

*Nuculana* (*Scaeoleda*) *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.

***Scaeoleda crassa* (Hinds, 1843)**

*Nuculana crassa* (Hinds, 1843).—Harris, 1897: 350.

*Distribution*. Otway Basin: Whalers Bluff Formation. Werrikoo Limestone. Gippsland Basin: Jemmys Point Formation. Bass Basin: Cameron Inlet Formation. Memana Formation. Southern-eastern Australia (living). *Age*: early Pliocene–present.

***Scaeoleda killara* (Singleton, 1941)**

*Nuculana* (*Scaeoleda*) *killara* Singleton, 1941: 424, pl. 20, fig. 2.

*Distribution*. Otway Basin: Werrikoo 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.
*Acar 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 cainoizoica* 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**

*Glycimeris halli* Pritchard, 1903a: 89, pl. 15, figs 1, 2, 8.

*Glycimeris halli intermedius* Pritchard, 1903a: 90, pl. 14, figs 10, 11 non Broderip, 1832.

*Glycimeris 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.

***Glycimeris halli paucicostata* Pritchard, 1903**

*Glycimeris 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 Calcarenite. 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 Calcarenite. 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: Werrikoo 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.

*Glycimeris 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.

*Glycimeris 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.

*Glycimeris 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.

*Glycimeris 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: Werrikoo 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, Werrikoo Limestone. *Age*: early–late Pliocene.

Superfamily Limopsoidea
**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 werrikooensis* Singleton, 1941**

*Limopsis werrikooensis* Singleton, 1941: 425, pl. 20, figs 3a, b.—Whittle et al., 2011, Fig. 5H.

*Distribution*. Otway Basin. Werrikoo 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 Crespin, 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 Crespin, 1928**

*Lissarca cincturata* Chapman and Crespin, 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 Crespin, 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 Pteroidea
**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 crassicardia* (Tate, 1886) comb. nov.**

*Meleagrina crassicardia* Tate, 1886b: 121, pl. 9, figs 9, 10.
?*Margaritifera crassicardia* (Tate, 1886).—Harris, 1897: 325.
*Pinctada crassicardia* (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 percrassa* (Tate, 1899) comb. nov.**

*Melina percrassa* 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: Werrikoo 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**
*Labrostrea* Vialov, 1936

***Labrostrea*? sp.**

*Labrostrea*? 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.

*Austrohinnites* Beu and Darragh, 2001

***Austrohinnites 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.

*Austrohinnites 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.

***Austrohinnites 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.

*Austrohinnites 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: Werrikoo 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 antecedens* (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* Jousseaume, 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 antecedens* 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, Waurn 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, Marrawah 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. Waurn 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 yahlensis* [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 yahlensis* [sic] var. *semilaevis* McCoy, 1877: 13, pl. 34, figs 1, 1a–d.

*Pecten yahlensis* [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 Philip 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, Waurn 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, Waurn 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, Jemmys 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, Waurn 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 incertus* 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.**

*Parvamusium* [sic] sp. cf. *P. hauniense* Ravn, 1939.—Darragh, 1994: 84, Figs 3P, Q.

*Parvamusium* 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 Trigonioidea
**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: Werrikoo 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*)[sic] *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 arcaeformis* Chapman and Crespin, 1934: 121, pl. 11, figs 25–27 non Gabb, 1869.
*Fragum chapmani* Crespin, 1945: 23 nom. nov. for *Cardium arcaeformis* 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* (Prichard, 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 Condylocardiidae**
*Warrana* Laseron, 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 deltoides* 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 kingiculoides* [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 deltoides* Darragh, 1965**

*Eucrassatella deltoides* Darragh, 1965a: 107, pl. 13, figs 15, 17, pl. 15, figs 30, 31; Darragh 1865b: 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 flindersiana* Singleton and Woods, 1934**

*Miltha* (*Milthoidea*) *grandis flindersiana* Singleton and Woods, 1934: 210, pl. 8, figs 4a, b.

*Miltha flindersiana* 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 mactrid.

***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.**

*Solecurtus 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*? *cuculloides* Tate, 1886**

*Cardium cuculloides* 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 moniletectum* (Tate, 1887)**

*Cardium moniletectum* Tate, 1887a: 151, pl. 14, figs 3a, b.

*Hedecardium moniletectum* (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**

*Veprecardium*[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.

*Pratulum* Iredale, 1924

***Pratulum hemimeris* (Tate, 1887)**

*Cardium hemimeris* Tate, 1887a: 153, pl. 14, figs 2a–c.

*Protocardium hemimeris* (Tate, 1887).—Harris, 1897: 368.

*Pratulum 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.

***Pratulum ornithopetronicum* (Chapman and Crespin, 1928)**

*Protocardia ornithopetronica* Chapman and Crespin, 1928: 103, pl. 12, fig. 81.

*Pratulum ornithopetronicum* (Chapman and Crespin, 1928).—Poutiers, 1992, Fig. 2i.

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

***Pratulum proterothetidis* (Ludbrook, 1955)**

*Nemocardium* (*Pratulum*) *proterothetidis* Ludbrook, 1955: 64: 3, figs 16, 17.

*Pratulum 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

***Pseudoarcopagia planatella* (Tate, 1885)**

*Lucina planatella* Tate, 1885b: 229.—Tate, 1886b: 158, pl. 12, fig. 11; Tate, 1887a: 146.

*Pseudoarcopagia 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 aequilatera* 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 aequilatera* 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 2l, 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 Solecurtidae**
*Solecurtus* Blainville, 1824

***Solecurtus legrandi* Tenison Woods, 1877**

*Solecurtus 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.

***Solecurtus murrayvianus* Finlay, 1927**

*Solecurtus ellipticus* Tate, 1887a: 182, pl. 16, fig.14 non Dana, 1849.
*Solecurtus murrayvianus* Finlay, 1927: 531 nom. nov. for *Solecurtus ellipticus* Tate, 1887 non Dana, 1849.

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

***Solecurtus dennanti* Tate, 1887**

*Solecurtus 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. dixoni* (Tate, 1887)**

*Hemidonax* sp. cf. *dixoni* (Tate, 1887).—Ponder et al., 1981: 53, Fig. 8.

*Distribution*. Port Phillip Basin: Lower Maude Limestone. *Age*: late Oligocene.

***Hemidonax dixoni* (Tate, 1887)**

*Donax dixoni* Tate, 1887a: 168, pl. 16, fig. 15.—Harris, 1897: 377.
*Hemidonax dixoni* (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. Werrikoo 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 novacambricum* 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. 2o; Ludbrook, 1984: 246, Figs 58l, 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.

*Katelysia* Römer, 1857

***Katelysia corioensis* (Tate, 1887) comb. nov.**

*Chione corioensis* Tate, 1887a: 157, pl. 16, fig. 1.

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

***Katelysia multistrigosa* Chapman and Crespin, 1928**

*Katelysia multistrigosa* Chapman and Crespin, 1928: 105, pl. 5, fig. 25.

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

***Katelysia praecursor* Ludbrook, 1978**

*Katelysia praecursor* Ludbrook, 1978: 74, pl. 7, figs 11–16.

*Distribution*. Eucla Basin: Roe Calcarenite, Quaternary sand (type). *Age*: late Pliocene–Pleistocene.

***Katelysia scalarina* (Lamarck, 1818)**

*Katelysia 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.

***Katelysia rhytiphora* (Lamy, 1935)**

*Katelysia 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.

*Circomphalus* Mörch, 1853

***Circomphalus 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.

***Circomphalus 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). 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). 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). 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* Mergele 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.**

*Oribicularia*? 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 ephamila* 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**

*Myodora 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**

*Myodora 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**

*Myodora 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**

*Myodora 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**

*Myodora 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**

*Myodora angustior* Tate, 1887a: 174, pl. 16, fig. 16.

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

***Myadora corrugata* Tate, 1887**

*Myodora 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**

*Myodora 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 subrostata* (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 Pilsbry, 1898: 199, nom. nov. for *Entalis annulatum* Tate, 1887 non Gmelin, 1788.

*Dentalium* (*Fustiaria*) *australe* Sharp and Pilsbry, 1898.—Tate, 1899b: 264.

*Dentalium* (*Laevidentalium*) *australe* Sharp and Pilsbry, 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 Gadilinidae**

*Gadilina* Foresti, 1895

***Gadilina tatei* (Sharp and Pilsbry, 1898)**

*Dentalium* (?) *triquetrum* Tate, 1887b: 193, pl. 20, fig. 3, non Brocchi, 1814.

*Dentalium tatei* Sharp and Pilsbry, 1898: 218, nom. nov. for *Dentalium triquetrum* Tate, 1887 non Brocchi, 1814.

*Dentalium* (*Gadilina*) *tatei* Sharp and Pilsbry, 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* Pilsbry 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 cubaenis* (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 diversigranosus* (Ashby and Cotton, 1939)**

*Lepidopleurus diversigranosus* Ashby and Cotton, 1939: 227, pl. 19, figs 1, 9.

*Terenochiton diversigranosus* (Ashby and Cotton, 1939).—Cotton and Godfrey, 1940: 576, Fig. 583; Cotton, 1964: 120, Fig. 133.

*Leptochiton diversigranosus* (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
SuperfamilyChitonoidea
**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 tisurus* 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 tisurus* 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, 1912).—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.

*Rhyssoplax* Thiele, 1893

***Rhyssoplax fossicius* (Ashby and Torr, 1901)**

*Chiton fossicius* Ashby and Torr, 1901: 140, pl. 4, fig. 4.

*Chiton* (*Rhyssoplax*) *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 [*fossicus*]; Cotton, 1964: 127, Fig. 138 [*fossicus*].

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

***Rhyssoplax 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* (*Rhyssoplax*) *tricostalis relatus* Ashby and Cotton, 1936.—Gowlett-Holmes and McHenry, 1988b: 5.

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

***Rhyssoplax 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* (*Rhyssoplax*) *macdonaldensis* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 5.

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

***Rhyssoplax 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* (*Rhyssoplax*) *duodeni* (Ashby and Cotton, 1939).—Gowlett-Holmes and McHenry, 1988b: 5.

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

***Rhyssoplax 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* (*Rhyssoplax*) *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. maconaldensis* had page priority. The types of the latter two are incomplete.

SuperfamilyCryptoplacoidea
**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 *Molachition 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* (*Radsiella*) *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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### Bibliography of Australian Tertiary Mollusca

### Checklist references

Abbott, R.T. 1968 (August). The helmet shells of the world (Cassidae): part 1. *Indo-Pacific Mollusca* 2(9): 7–201.

Ashby, E. 1921 (August). Description of a new species of fossil *Loricella* (Order *Polyplacophora*), with remarks on some undescribed characters present in *Loricella angasi*, Ad., and Ang., and *L. torri*, Ashby. *Papers and Proceedings of the Royal Society of Tasmania* (1921): 37–40.

Ashby, E. 1925 (November). Monograph on Australian fossil Polyplacophora (Chitons). *Proceedings of the Royal Society of Victoria* 37(2): 170–205.

Ashby, E. 1929a (April). Notes on and additions to Australian fossil Polyplacophora (Chitons). *Proceedings of the Royal Society of Victoria* 41(2): 220–230.

Ashby, E. 1929b (October). Definition of a new fossil chiton. *Papers and Proceedings of the Royal Society of Tasmania* for 1929: 36–38.

Ashby, E. 1939 (July). Fossil chitons from Mornington, Victoria. *Proceedings of the Linnean Society of London* 151(3): 186–189.

Ashby, E. 1940 (December). A new fossil *Cryptoplax* from the Pliocene of South Australia. *Transactions of the Royal Society of South Australia* 64(2): 266.

Ashby, E., and Cotton, B.C. 1936 (November). South Australian fossil chitons. *Records of the South Australian Museum* 5(4): 509–512.

Ashby, E., and Cotton, B.C. 1939 (December). New fossil chitons from the Miocene and Pliocene of Victoria. *Records of the South Australian Museum* 6(3): 209–242.

Ashby, E., and Torr, W.G. 1901 (December). Fossil Polyplacophora from Eocene beds of Muddy Creek, Mornington (Schnapper Point) and Moorabool, Victoria, with definitions of nine new species and notes on others. *Transactions of the Royal Society of South Australia* 25(2): 136–144.

Basedow, H. 1901 (December). On the occurrence of Miocene limestones at Edithburgh, and their stratigraphical relationship to the Eocene of Wool Bay, with description of a new species by Professor R. Tate. *Transactions of the Royal Society of South Australia* 25(2): 145–148.

Basedow, H. 1902 (December). Descriptions of new species of fossil Mollusca from the Miocene limestone near Edithburgh (including notes by the late Professor Ralph Tate). *Transactions of the Royal Society of South Australia* 26: 130–132.

Basedow, H. 1904 (December). Note on Tertiary exposures in the Happy Valley district, with description of a new species of *Septifer*. *Transactions of the Royal Society of South Australia* 28: 248–252.

Beu, A.G. 1967 (November). Notes on Australasian Anomiidae (Mollusca, Bivalvia). *Transactions of the Royal Society of New Zealand, Zoology*. 9(18): 225–243.

Beu, A.G. 1970 (August). Taxonomic position of *Lippistes pehuensis* Marwick, with a review of the species of *Concholepas* (Gastropoda, Muricidae). *Journal of the Malacological Society of Australia* 2(1): 39–46.

Beu, A.G. 1973 (February). Nautiloids of the genus *Aturia* from the uppermost Miocene of Australia and New Zealand. *Tohoku University Science Reports* 2nd series (Geology) Special Volume 6: 297–308.

Beu, A.G. 1978 (July). New records and species of Cymatiidae (Gastropoda: Prosobranchia) from the Kermadec Islands, Norfolk Ridge and New Zealand. *Journal of the Malacological Society of Australia* 4(1–2): 29–42.

Beu, A.G. 1988 (August). Taxonomy of gastropods of the Families Ranellidae (= Cymatidae) and Bursidae, part 5: early history of the Families, with four new fenera and recognition of the family Personidae. *Saito Ho-on Kai Special Publication* 2 (Professor Tamio Kotaka Commemorative Volume): 69–96.

Beu, A.G. 1998 (October). Indo–West Pacific Ranellidae, Bursidae and Personidae. A monograph of the New Caledonian fauna and revisions of related taxa. *Mémoires du Museum National d'Histoire Naturelle* 178: 1–255.

Beu, A.G. 2005 (September). Neogene fossil tonnoidean gastropods of Indonesia. *Scripta Geologica* 130: 1–186.

Beu, A.G. 2010 (August). Neogene Tonnoidean Gastropods of Tropical and South America: contributions to the Dominican Republic and Panama Paleontology Projects and Uplift of the Central American Isthmus. *Bulletins of American Paleontology* 337–338.

Beu, A.G. 2011 (March). Marine Mollusca of isotope stages of the last 2 million years in New Zealand, part 4. Gastropoda (Ptenoglossa, Neogastropoda, Heterobranchia). *Journal of the Royal Society of New Zealand* 4(1): 1–153.

Beu, A.G. 2017 (August). Evolution of *Janthina* and *Recluzia* (Mollusca: Gastropoda: Epitoniidae). *Records of the Australian Museum* 69(3): 119–222.

Beu, A.G., and Darragh, T.A. 2001 (September). Revision of Southern Australian Cenozoic Fossil Pectinidae (Mollusca: Bivalvia). *Proceedings of the Royal Society of Victoria* 113(1): 1–205.

Beu, A.G., and Maxwell, P.A. 1987 (May). A revision of the fossil and living gastropods related to *Plesiotriton* Fischer, 1884 (family Cancellariidae, subfamily Plesiotritoninae n. subfam.) *New Zealand Geological Survey Palaeontological Bulletin* 54: 1–140.

Beu, A.G., and Ponder, W.F. 1979 (May). A revision of the species of *Bolma* Risso, 1826 (Gastropoda: Turbinidae) *Records of the Australian Museum* 32(1): 1–68.

Beu, A.G., and Verhecken, A. 2000 (December). Two new living species of *Loxotaphrus* (Gastropoda: Cancellariidae: Plesiotritoninae) from Queensland, Australia and Mozambique, East Africa. *Molluscan Research* 20(2): 1–11.

Bieler, R. 1985 (March). Die Gattungen der Architectonicidae (Gastropoda: Heterogastropoda). Teil 2: *Architectonica*, *Philippia*, *Dinaxis*, *Stellaxis*, *Discotectonica*, *Solatisonax*, *Climacopoma*, *Granosolarium*. *Archiv für Molluskenkunde* 115(4–7): 231–265

Boury, E. de, 1909 (September). Catalogue des sous-genres de Scalidae. *Journal de Conchyliologie* 57(3): 255–258.

Brough Smyth, R. 1875 (April). *Progress Report of the Geological Survey of Victoria* 2: 1–46.

Buonaiuto, M.F. 1975 (February). Notes on the genus *Pseudomalaxis* Fischer (Mollusca: Gastropoda) and its fossil species in Australia. *Transactions of the Royal Society of South Australia* 99(1): 21–29.

Buonaiuto, M.F. 1977a (February). Revision of the Australian Tertiary species ascribed to *Limatula* Wood (Mollusca: Bivalvia). *Transactions of the Royal Society of South Australia* 101(1): 21–33.

Buonaiuto, M.F. 1977b (May). Revision of the composite species *Lima bassi* Tenison Woods (Mollusca, Bivalvia. *Transactions of the Royal Society of South Australia* 101(3): 75–83.

Burgess, C.M. 1985 (September). *Cowries of the world*. Seacomber Publications: Cape Town. 125 pp.

Burn, R. 1978 (July). A review of Australian species of *Austrocylichna*, *Nipponatys*, *Cylichnatys* and *Diniatys* (Mollusca: Gastropoda: Haminoeidae). *Journal of the Malacological Society of Australia* 4(1–2): 93–112.

Cernohorsky, W.O. 1970 (October). Systematics of the families Mitridae and Volutomitridae (Mollusca: Gastropoda). *Bulletin of the Auckland Institute and Museum* 8: 1–190.

Cernohorsky, W.O. 1972 (December). A taxonomic evaluation of recent and fossil non–mitrid species proposed in the family Mitridae (Mollusca: Gastropoda). *Records of the Auckland Institute and Museum* 9: 205–229.

Cernohorsky, W.O. 1976 (September). The Mitridae of the World, part 1: the subfamily Mitrinae. *Indo–Pacific Mollusca* 3(17): 273–528.

Cernohorsky, W.O. 1977 (December). The taxonomy of some Indo-Pacific Mollusca, part 5, with descriptions of new taxa and remarks on *Nassarius albus* (Say). *Records of the Auckland Institute and Museum* 14: 121–132.

Cernohorsky, W.O. 1980 (January). Revision of the Australian and New Zealand Tertiary and Recent temperate species of the family Costellariidae (Mollusca: Gastropoda). *Records of the Auckland Institute and Museum* 16: 109–169.

Cernohorsky, W.O. 1981 (December). Revision of the Australian and New Zealand Tertiary and Recent species of the family Nassariidae (Mollusca: Gastropoda). *Records of the Auckland Institute and Museum* 18: 137–192.

Chapman, F. 1905 (April). Notes on the fossil casts in Tertiary ironstone from Stawell, figured by M'Coy. *Victorian Naturalist* 21(12): 178–180.

Chapman, F. 1908 (March). New or little-known Victorian fossils in the National Museum, part IX – some Tertiary species. *Proceedings of the Royal Society of Victoria* 20(2): 208–221.

Chapman, F. 1911 (March). A revision of the species of *Limopsis* in the Tertiary beds of Southern Australia. *Proceedings of the Royal Society of Victoria* 23(2): 419–432.

Chapman, F. 1912a (May). On an unnamed species of *Pecten* from the Tertiary (Barwonian) of Southern Australia. *Memoirs of the National Museum of Victoria* 4: 36–37.

Chapman, F. 1912b (May). Notes on a collection of Tertiary limestones and their fossil contents from King Island. *Memoirs of the National Museum of Victoria* 4: 39–53.

Chapman, F. 1912c (August). New or little-known Victorian fossils in the National Museum, part XV – some Tertiary Gasteropoda. *Proceedings of the Royal Society of Victoria* 25(1): 186–192.

Chapman, F. 1915a (March). New or little-known fossils the National Museum, part XVII – some Tertiary Cephalopoda. *Proceedings of the Royal Society of Victoria* 27(2): 350–361.

Chapman, F. 1915b (March). Report on a collection of fossils made by Dr. Wade from the Cainozoic series of South Australia. *Bulletin of the Geological Survey of South Australia* 4: 44–50.

Chapman, F. 1915c (May). Note on a large specimen of *Conus dennanti* Tate. *Victorian Naturalist* 32(1): 5–6.

Chapman, F. 1916 (July). Cainozoic geology of the Mallee and other Victorian bores. *Records of the Geological Survey of Victoria* 3(4): 327–430.

Chapman, F. 1920 (September). Notes on a collection of Tertiary fossils from Ooldea and Watson, South Australia. *Proceedings of the Royal Society of Victoria* 32(2): 225–245.

Chapman, F, 1921a (October). The specific name of the Australian *Aturia* and its distribution. *Proceedings of the Royal Society of Victoria* 34(1): 12–16.

Chapman, F. 1921b. Report of an examination of material obtained from a bore at Torquay. *Records of the Geological Survey of Victoria* 4(3): 315–324.

Chapman, F. 1922 (December). New or little-known fossils in the National Museum, part XXVI – some Tertiary Mollusca. *Proceedings of the Royal Society of Victoria* 35(1): 1–18

Chapman, F. 1926 (July). Geological notes on Neumerella and the section from Bairnsdale to Orbost. *Proceedings of the Royal Society of Victoria* 38: 125–142.

Chapman, F. 1929 (April). On the flanged cowry, *Palliocypraea gastroplax*. *Proceedings of the Royal Society of Victoria* 41(2): 202–205.

Chapman, F., and Crespin, I. 1928 (September). The Sorrento bore, Mornington Peninsula, with a description of new or little-known fossils. *Records of the Geological Survey of Victoria*. 5(1): 1–195.

Chapman, F., and Crespin, I. 1933 (December). New and rare Tertiary Mollusca from deep borings in Gippsland, Victoria. *Proceedings of the Royal Society of Victoria* 46(1): 66–76.

Chapman, F., and Crespin, I. 1934 (October). The palaeontology of the Plantagenet beds of Western Australia. *Journal of the Royal Society of Western Australia* 20: 103–136.

Chapman, F., and Gabriel, C.J. 1914 (March). Description of new and rare fossils obtained by deep boring in the Mallee: part II – Mollusca. *Proceedings of the Royal Society of Victoria* 26(2): 301–330.

Chapman, F., and Gabriel, C.J. 1923 (December). A revision and description of the Australian Tertiary Patellidae, Patelloididae, Cocculinidae and Fissurellidae. *Proceedings of the Royal Society of Victoria* 36(1): 22–40.

Chapman, F., and Singleton, F.A. 1925 (May). A revision of the Cainozoic species of *Glycymeris* in Southern Australia. *Proceedings of the Royal Society of Victoria* 37(1): 18–60.

Chapman, F., and Singleton, F.A. 1927 (October). Descriptive notes on Tertiary Mollusca from Fyansford and other Australian localities, part 1. *Proceedings of the Royal Society of Victoria* 39(2): 113–124.

Chapple, E.H. 1934 (September). Additions to the Tertiary Mollusca of Victoria. *Memoirs of the National Museum of Victoria* 8: 162–165.

Chapple, E.H. 1941 (March). New species of Tertiary Mollusca from Victoria. *Memoirs of the National Museum of Victoria* 12: 119–124.

Collins, K.S. Crampton, J.S., and Hannah, M. 2013 (June). Identification and independence: morphometrics of Cenozoic New Zealand *Spissatella* and *Eucrassatella* (Bivalvia, Crassatellidae). *Paleobiology* 39(4): 525–537.

Collins, K.S. Crampton, J.S., and Hannah, M. 2014 (February). Stratocladistic analysis and taxonomic revision of the character-poor New Zealand crassatellid bivalves *Spissatella* and *Eucrassatella*. *Journal of Molluscan Studies* 81(1): 104–123.

Cossmann, M. 1895 (February). *Essais de paléoconchologie comparée: 1*. Author: Paris. 156 pp.

Cossmann, M. 1896 (December). *Essais de paléoconchologie comparée: 2*. Author: Paris. 179 pp.

Cossmann, M. 1897 (July). The gastropods of the Older Tertiary of Australia – Les Opisthobranches. *Transactions of the Royal Society of South Australia* 21(1): 1–21.

Cossmann, M. 1898 (January). Ouvrages généraux et paléoconchologie. *Revue Critique de Paléozoologie* 2(1): 8–23.

Cossmann, M. 1899 (April). *Essais de paléoconchologie comparée*. 3. Author: Paris. 201 pp.

Cossmann, M. 1900 (October). Rectifications de nomenclature. *Revue Critique de Paléozoologie* 4(4): 186.

Cossmann, M. 1901 (October). *Essais de paléoconchologie comparée*. 4. Author: Paris. 293 pp.

Cossmann, M. 1903 (December). *Essais de paléoconchologie comparée*. 5. Author: Paris. 215 pp.

Cossmann, M. 1904 (July). *Essais de paléoconchologie comparée*. 6. Author: Paris. 151 pp.

Cossmann, M. 1906 (July). *Essais de paléoconchologie comparée*. 7. Author: Paris. 261 pp.

Cossmann, M. 1907 (July). Rectifications de nomenclature. *Revue Critique de Paléozoologie* 11(3): 200–202.

Cossmann, M. 1912a (July). Rectifications de nomenclature. *Revue Critique de Paléozoologie* 16(3): 213–215.

Cossmann, M. 1912b (August). *Essais de paléoconchologie comparée*. 9. Author: Paris. 215 pp.

Cossmann, M. 1912c (October). Sur l'évolution des Trigonies. *Annales de Paléontologie* 7: 59–85.

Cossmann, M. 1913 (January). Rectifications de nomenclature. *Revue Critique de Paléozoologie* 17(1): 61–64.

Cossmann, M. 1916 (July). *Essais de paléoconchologie comparée*. 10. Author: Paris. 292 pp.

Cossmann, M. 1918 (April). *Essais de paléoconchologie comparée*. 11. Author: Paris. 388 pp.

Cossmann, M. 1920 (January). Rectifications de nomenclature. *Revue Critique de Paléozoologie et de Paléophytologie* 24(1): 36–38.

Cossmann, M. 1921 (April). *Essais de paléoconchologie comparée*. 12. Author: Paris. 348 pp.

Cossmann, M. 1924 (December). *Essais de paléoconchologie comparée*. 13. Author: Paris. 345 pp.

Cotton, B.C. 1934 (December). A new species of fossil shell from the Upper Pliocene of the Adelaide Plains. *South Australian Naturalist* 16(1): 7.

Cotton, B.C. 1936 (November). A new fossil bivalve mollusc from South Australia. *Records of the South Australian Museum* 5(4): 503–504.

Cotton, B.C. 1947 (December). Some Tertiary fossil molluscs from the Adelaidean stage (Pliocene) of South Australia. *Records of the South Australian Museum* 8(4): 653–670.

Cotton, B.C. 1949a (May). Australian Recent and Tertiary Mollusca. Family Volutidae. *Records of the South Australian Museum* 9(2): 181–196.

Cotton, B.C. 1949b (May). Australian Recent and Tertiary Mollusca. Family Marginellidae. *Records of the South Australian Museum* 9(2): 197–224.

Cotton, B.C. 1952a (September). Australian Recent and Tertiary Mollusca (Terebridae, Rissoinidae, Rissoidae, Fasciolariidae, Volutidae). *Transactions of the Royal Society of South Australia* 75: 38–54.

Cotton, B.C. 1952b. The Mollusca of the Adelaidean Stage. *Bulletin of the Geological Survey of South Australia* 27: 239–249.

Cotton, B.C. 1964. *South Australian Mollusca. Chitons*. Government Printer: Adelaide.

Cotton, B.C., and Godfrey, F.K. 1940. *The molluscs of South Australia, part II: Scaphopoda, Cephalopoda, Aplacophora and Crepipoda*. Government Printer: Adelaide.

Cotton, B.C., and Ludbrook, N.H. 1938 (December). Recent and fossil species of the scaphopod genus *Dentalium* in Southern Australia. *Transactions of the Royal Society of South Australia* 62: 217–228.

Cotton, B.C., and Weeding, B.J. 1941 (February). The correlation of Recent and fossil Crepipoda (Mollusca) of the Australian sub-region. *Records of the South Australian Museum* 6(4): 435–450.

Cotton, B.C., and Woods, N.H. 1933 (August). Remarks on the new harpid (Mollusca) genera of Finlay and Iredale. *Records of the South Australian Museum*. 5(1): 45–47.

Cotton, B.C., and Woods, N.H. 1935 (September). The correlation of recent and fossil Turritellidae of Southern Australia. *Records of the South Australian Museum*. 5(3): 369–387

Crespin, I. 1926 (July). The geology of Green Gully, Keilor, with special reference to the fossiliferous beds. *Proceedings of the Royal Society of Victoria*. 38: 100–124.

Crespin, I. 1945 (August). Change of name of *Cardita arcaeformis* Chapman & Crespin, 1934. *Australian Journal of Science* 8(1): 23.

Crespin, I. 1950 (November). Some Tertiary Pelecypoda from the Lakes Entrance Oil Shaft, Gippsland, Victoria. *Proceedings of the Royal Society of Victoria*. 60: 149–156.

Crespin, I. 1959 (November). New name for a Victorian pelecypod. *Journal of Paleontology* 33(6): 1127.

Criscione, F., and Ponder, W.F. 2011 (January). A review of the Recent Australian species of *Merelina* Iredale, 1915 (Caenogastropoda, Rissoidae). *Molluscan Research* 31(2): 65–84

Darragh, T.A. 1965a (March). Revision of the species of *Eucrassatella* and *Spissatella* in the Tertiary of Victorian and Tasmania. *Proceedings of the Royal Society of Victoria* 78(1): 95–114.

Darragh, T.A. 1965b (December). Hinge transposition in *Eucrassatella* (Pelecypoda: Crassatellidae). *Proceedings of the Royal Society of Victoria* 79(1): 89–90.

Darragh, T.A. 1965c (December). *Proxichione* (Pelecypoda: Veneridae) from the Tertiary of South-Eastern Australia. *Proceedings of the Royal Society of Victoria* 79(1): 165–173.

Darragh, T.A. 1969 (October). A revision of the family Columbariidae (Mollusca: Gastropoda). *Proceedings of the Royal Society of Victoria* 83(1): 63–119.

Darragh, T.A. 1970 (May). Catalogue of Australian Tertiary Mollusca (except chitons). *Memoirs of the National Museum of Victoria* 31: 125–212.

Darragh, T.A. 1971 (September). Revision of the Australian Tertiary Volutidae (Mollusca: Gasteropoda). 1. The subfamily Athletinae. *Journal of the Malacological Society of Australia* 2(2): 163–185.

Darragh, T.A. 1976. Mollusca from the Whalers Bluff Formation, Dutton Way, Portland. Pp. 309 in: Singleton, O.P., McDougall, I., and Mallett, C.W. The Pliocene–Pleistocene boundary in southeastern Australia. *Journal of the Geological Society of Australia* 23(3): 299–311.

Darragh, T.A. 1985. Molluscan biogeography and biostratigraphy of the Tertiary of southeastern Australia. *Alcheringa* 9(1–2): 83–109.

Darragh, T.A. 1986 (March). The Cainozoic Trigoniidae of Australia. *Alcheringa* 10(1): 1–34

Darragh, T.A. 1989 (February). A revision of the Tertiary Volutidae (Mollusca: Gastropoda) of South–eastern Australia. *Memoirs of the Museum of Victoria* 49(2): 195–307.

Darragh, T.A. 1991 (March). A revision of the Australian genus *Tylospira* Harris, 1897 (Gastropoda: Struthiolariidae). *Alcheringa* 15: 151–175.

Darragh, T.A. 1992 (May). Replacement name for *Lyria mitraeformis crassicostata* Darragh, 1989. *Memoirs of the Museum of Victoria*. 53(1): 135.

Darragh, T.A. 1994 (December). Paleocene bivalves from the Pebble Point Formation, Victoria, Australia. *Proceedings of the Royal Society of Victoria* 106: 71–103.

Darragh, T.A. 1997 (November). Gastropoda, Scaphopoda, Cephalopoda, and new Bivalvia of the Paleocene Pebble Point Formation, Victoria, Australia. *Proceedings of the Royal Society of Victoria* 109(1): 57–108.

Darragh, T.A. 2002a (August). A revision of the Australian Genus *Umbilia* (Gastropoda: Cypraeidae). *Memoirs of the Museum of Victoria* 59(2): 355–392.

Darragh, T.A. 2002b (September). *Campanile* (Mollusca: Gastropoda): a new record from the early Miocene of Victoria, Australia. *Alcheringa* 26(4): 501–506.

Darragh, T.A. 2010 (May). A new species of the genus *Proxichione* (Bivalvia: Veneridae) from Western Australia with notes on Late Tertiary species. *Records of the Western Australasian Museum* 25: 369–377.

Darragh, T.A. 2011a (March). *Orthochetus* (Gastropoda: Cerithiidae) in the Eocene of southern Australia. *New Zealand Journal of Geology and Geophysics* 54(1): 35–42.

Darragh, T.A. 2011b (December). A revision of the Australian fossil species of *Zoila* (Gastropoda: Cypraeidae). *Memoirs of Museum Victoria* 68: 1–28.

Darragh, T.A. 2017. Further Mollusca from the late Eocene Pallinup Formation, Eucla Basin, Western Australia. *Records of the Western Australian Museum* 32: 29–100.

Darragh, T.A. 2023 (November). A taxonomic revision of Australian Cenozoic Cassidae and Tonnidae species (Mollusca, Gastropoda). *Alcheringa* 48: 1–21.

Darragh, T.A., and Kendrick, G.W. 1971. *Zenatiopsis ultima* sp.nov. terminal species of the *Zenatiopsis* lineage (Bivalvia: Mactridae). *Proceedings of the Royal Society of Victoria* 84(1): 87–92.

Darragh, T.A., and Kendrick, G.W. 1980 (May). Eocene bivalves from the Pallinup Siltstone near Walpole, Western Australia. *Journal of the Royal Society of Western Australia* 63(1): 5–20.

Darragh, T.A., and Kendrick, G.W. 1991. Maastrichtian Bivalvia (excluding Inoceramidae) from the Miria Formation, Carnarvon Basin, north western Australia. *Records of the Western Australian Museum* Suppl. 36: 1–102.

Darragh, T.A., and Kendrick, G.W. 2000 (June). Eocene bivalves and gastropods from the Pallinup Siltstone, Western Australia, with new records from the Eocene and Oligocene of Southeastern Australia. *Proceedings of the Royal Society of Victoria* 112(1): 17–58.

Darragh, T.A., and Kendrick, G.W. 2008 (July). Silicified Eocene molluscs from the Lower Murchison district, Southern Carnarvon Basin, Western Australia. *Records of the Western Australian Museum* 24: 217–246.

Darragh, T.A., and Kendrick, G.W. 2010. Eocene molluscs from the Merlinleigh Sandstone, Carnarvon Basin, Western Australia. *Records of the Western Australian Museum* 26(1): 23–41.

Davies, A.M. 1935. *Tertiary Faunas 1*. Murby & Co: London. 406 pp.

De Gregorio, A., 1898. Études sur le genre *Amussium* avec un catalogue bibliographique et synonymique de tous le peigneslisses et sublisses vivants at tertiaires du monde, appartenant aux sous genres *Amussium*, *Pseudamussium*, *Propeamussium*, *Syncyclonema*, *Camptonectes*, *Variamussium* etc, avec une appendice sur le *Pecten flabelliformis* Brocc. *hyalinus* Poli, *magellenicus* Gmelin. *Annales de Géologie et de Paléontologie* 23: 1–70.

Dennant, J., and Kitson, A.E. 1903. Catalogue of the described species of fossils (except Bryozoa and Foraminifera) in the Cainozoic fauna of Victoria, South Australia and Tasmania. *Records of the Geological Survey of Victoria*. 1(2): 89–147.

Deschet, Y. 1966 (June). Études sur des Trigoniidae Cénozoiques. *Travaux du Laboratoire de Paléontologie, Université, Orsay.* 1–156.

Fedosov A.E., Puillandre N., Herrmann M., Dgebuadze P., and Bouchet P. 2017 (March). Phylogeny, systematics, and evolution of the family Costellariidae (Gastropoda: Neogastropoda). *Zoological Journal of the Linnean Society* 179(3): 541–626.

Fehse, D, 2001 (September). Katalog der fossilen Cypraeoidea (Mollusca: Gastropoda) in der Sammlung Franz Alfred Schilder. III. Die Unterfamilie Erroneinae Schilder 1925. *Club Conchylia Informationen* 33(1–3): 1–43.

Fehse, D, 2002 (July). Beiträge zur Kenntnis der Triviidae (Mollusca: Gastropoda) V. Kritische Beurteilung der genera und Beschreibung einer neuen Art der Gattung *Semitrivia* Cossmann, 1903. *Acta Conchyliorum* 6: 3–48.

Fehse, D. 2003 (December). Katalog der fossilen Cypraeoidea (Mollusca: Gastropoda) in der Sammlung Franz Alfred Schilder. III.I Die Gattung *Austrocypraea* Cossmann, 1903 (Mollusca: Gastropoda: Cypraeoidea) in Australien. *Club Conchylia Informationen* 35(1–6): 49–73.

Fehse, D. 2010 (September). New species of fossil Cypraeoidea from Europe and Australia (Mollusca: Gastropoda). *Palaeontographica*, Abteilung A, 292(1–3): 1–19.

Fehse, D. 2011. A new fossil species of *Notocypraea* (Mollusca: Gastropoda: Cypraeidae) from the Roe Plains of Australia. *Records of the Western Australian Museum* 26(2): 179–182.

Fehse, D. 2013a (May). A new fossil species of *Austrocypraea* (Mollusca: Gastropoda: Cypraeidae) from Red Bluff, Victoria of Australia. *Palaeontographica*, Abteilung A, 299(1–3): 115–125.

Fehse, D. 2013b (May). The genus *Willungia* Powell, 1938 (Mollusca: Gastropoda: Cypraeoidea) and its assignment to the higher systematics. *Palaeontographica*, Abteilung A, 299(1–3): 149–157.

Fehse, D. 2018 (March). A new species of the genus *Willungia* Powell, 1938 (Mollusca: Gastropoda; Cypraeoidea) from Tasmania. *Conchylia* 48(3–4): 59–63.

Fehse, D., and Grego, J. 2004 (June). *Contributions to the knowledge of the Triviidae (Mollusca: Gastropoda). IX. Revision of the genus Trivellona Iredale, 1931*. Banska Bystrica: Berlin. 122 pp. [CD–ROM: published as a book in 2009]

Fehse, D., and Grego, J. 2008 (March). New species of the genus *Trivellona* (Mollusca: Gastropoda) from the Miocene of Australia. *Records of the Western Australian Museum* 24(2): 205–213.

Fehse, D., and Grego, J. 2010 (August). Contributions to the knowledge of the Triviidae. XVI. Revision of the Genus *Ellatrivia* Iredale, 1931 with the description of a new species (Mollusca: Gastropoda). *Visaya* 3(1): 21–61.

Fehse, D., and Grego, J. 2012. Contributions to the knowledge of Triviidae (Mollusca: Gastropoda) XXII. New fossil species in the genera *Ellatrivia* and *Trivellona*. *Records of the Western Australian Museum* 27(1): 1–6.

Fehse, D., and Grego, J. 2018 (August). Contributions to the knowledge of the Triviidae, XXXVI: new fossil species in the genus *Triviella* Jousseaume, 1884 (Mollusca: Gastropoda: Trivioidea) from South Australia. *Conchylia* 49(1–2): 29–34.

Fehse, D., and Kendrick, G.W., 2000. A new species of *Austrocypraea* (Gastropoda: Cypraeidae) from the late Pliocene of the Eucla Basin, southern Australia. *Records of the Western Australian Museum* 20(1): 95–101.

Fehse, D., Lorenz, F., Hawke, A., & Kovacs, K. 2019 (August). A peculiar Cypraeidae (Mollusca: Gastropoda) from the Eocene of Australia. *Conchylia* 50(1–4): 143–146.

Finlay, H.J. 1924 (June). Some necessary changes in names of New Zealand Mollusca. *Proceedings of the Malacological Society of London* 16(2): 99–107.

Finlay, H.J. 1926 (December). A further commentary on New Zealand molluscan systematics. *Transactions of the New Zealand Institute* 57: 320–485.

Finlay, H.J. 1927 (January). New specific names for Austral Mollusca. *Transactions of the New Zealand Institute* 57: 488–533.

Finlay, H.J. 1930 (March). Invalid molluscan names, no. 1. *Transactions of the New Zealand Institute* 61(1): 37–48.

Finlay, H.J. 1931 (May). On *Austrosassia*, *Austroharpa* and *Austrolithes*, new genera; with some remarks on the gasteropod protoconch. *Transactions of the New Zealand Institute* 62(1): 7–19.

Fleming, C.A. 1962 (March). Palaeontological evidence for speciation preceded by geographic isolation. Pp. 225–241 in: Leeper, G.W. (ed), *The evolution of living organisms: a symposium of the Royal Society of Victoria held in Melbourne, December 1959*. Melbourne University Press: Parkville.

Fleming, C.A. 1978. The bivalve mollusc genus *Limatula*: a list of described species and a review of living and fossil species in the Southwest Pacific. *Journal of the Royal Society of New Zealand* 8(1): 17–91.

Foord, A.H. 1891 (April). *Catalogue of the fossil Cephalopoda in the British Museum (Natural History), part II: Nautiloidea*. British Museum (Natural History): London. 407 pp.

Garrard, T.A. 1972. A revision of Australian Recent and Tertiary Turritellidae (Gastropoda: Mollusca). *Journal of the Malacological Society of Australia* 2(3): 267–338.

Garrard, T.A. 1975 (November). A revision of Australian Cancellariidae (Gastropoda: Mollusca). *Records of the Australian Museum* 30(1): 1–62.

Garrard, T.A. 1976 (October). The genus *Pervicacia* (Terebridae: Gastropoda: Mollusca). *Journal of the Malacological Society of Australia* 3(3–4): 179–185.

Garrard, T.A. 1978 (October). A revision of Australian Architectonidae (Gastropoda: Mollusca). *Records of the Australian Museum* 31(13): 506–584.

Garvie, C.L., Goedert, J.L., and Janssen, A.W. 2020 (May). Paleogene and Late Cretaceous Pteropoda (Mollusca, Gastropoda, Heterobranchia) from North America. *Zootaxa* 4782: 1–115.

Gatliff, J.H., and Singleton, F.A. 1930 (March). On the relationship between "*Pecten*" *asperrimus* Lamarck and "*Pecten*" *antiaustralis* Tate, with a description of an allied form. *Proceedings of the Royal Society of Victoria* 42(2): 71–77.

Gill, E.D., and Baker, A.A. 1955 (July). Tertiary fossils at Aberfeldie, Melbourne. *Victorian Naturalist* 72(3): 39–43.

Gill, E.D., and Darragh, T.A. 1963 (December). Evolution of the Zenatiinae (Mactridae: Lamellibranchiata). *Proceedings of the Royal Society of Victoria* 77(1): 177–190.

Glaessner, M.F. 1955 (May). Pelagic fossils (*Aturia*, Penguins, Whales) from the Tertiary of South Australia. *Records of the South Australian Museum* 11(4): 353–372.

Glenister, B.F., and Glover, J.E. 1958 (September). *Teichertia* in the Plantagenet Beds of Western Australia. *Journal of the Royal Society of Western Australia* 43(3): 84–87.

Glenister, B. F. Miller, A.K., and Furnish, W.M. 1956 (May). Upper Cretaceous and early Tertiary nautiloids from Western Australia. *Journal of Paleontology* 30(3): 492–503.

Gowlett-Holmes, K.L. 1987 (May). The suborder Choriplacina Starobogatov & Sirenko, 1975 with a redescription of *Choriplax grayi* (H. Adams & Angas, 1864), (Mollusca: Polyplacophora). *Transactions of the Royal Society of South Australia* 111(2): 105–110.

Gowlett–Holmes, K.L. 1989 (December). Fossil mollusc type specimens in the South Australian Museum. Additions and correction to part 1: Polyplacophora. *Records of the South Australian Museum* 23(2): 153.

Gowlett-Holmes, K.L. 1990 (November). A review of the endemic Australian chiton genus *Bassethullia* Pilsbry 1928 (Mollusca; Polyplacophora: Acanthochitonidae). *Journal of the Malacological Society of Australia* 11: 9–28.

Gowlett-Holmes, K.L. 1991 (October). Redefinition of the genus *Notoplax* H. Adams, 1861, and recognition of the monotypic New Zealand genus *Pseudotonica* Ashby, 1928 (Mollusca: Polyplacophora: Acanthochitonidae). *Journal of the Malacological Society of Australia* 12: 77–88.

Gowlett-Holmes, K.L. 1992 (October). A new species of Tertiary *Notoplax* (Mollusca: Polyplacophora: Acanthochitonidae) from South Australia. *Journal of the Malacological Society of Australia* 13: 31–34.

Gowlett–Holmes, K.L., and McHenry, B.J. 1988a (May). A new species of Tertiary chiton (Mollusca: Polyplacophora: Acanthochitonidae) from South Australia. *Transactions of the Royal Society of South Australia* 112(2): 81–82.

Gowlett–Holmes, K.L., and McHenry, B.J. 1988b (July). Fossil mollusc type specimens in the South Australian Museum. 1. Polyplacophora. *Records of the South Australian Museum* 22(1): 1–11.

Haig, D.W., and Mory, A.J. 2003 (September). New record of siliceous, marine, later Eocene from Kalbarri, Western Australia. *Journal of the Royal Society of Western Australia* 86(3): 107–113.

Hall, T.S. 1905 (February). On the occurrence of two species of *Cryptoplax* in the Tertiary rocks of Victoria. *Proceedings of the Royal Society of Victoria* 17(2): 391–393.

Harris, G.F. 1897 (March). *Catalogue of Tertiary Mollusca in the Department of Geology, British Museum (Natural History), part I: the Australasian Tertiary Mollusca*. British Museum (Natural History): London.

Hawke, A.L. 2020 (May). Two new species of *Umbilia* (Caenogastropoda: Cypraeidae) from the Australian Miocene. *Acta Conchyliorum* 19: 15–22.

Hawke, A.L. 2021 (November). New species of *Nannamoria* from the Pliocene and Miocene of Australia (Caenogastropoda: Volutidae). *The Festivus* 53(4): 245–260.

Hedley, C. 1902 (July). Scientific results of the trawling expedition of H.M.C.S. "Thetis", off the coast of New South Wales in February and March, 1898. Mollusca, part 1: Brachiopoda and Pelecypoda. *Memoirs of the Australian Museum* 4(5): 287–324.

Hedley, C. 1904 (December). On the change of name of *Poroleda lanceolata* Tate. *Victorian Naturalist* 218): 112.

Hedley, C. 1906 (April). Studies on Australian Mollusca, part IX. *Proceedings of the Linnean Society of New South Wales* 30 (4): 520–546.

Hedley, C. 1924 (June). A revision of the Australian Pinnidae. *Records of the Australian Museum* 14(3): 141–153.

Houart, R. 1992 (October). The genus *Chicoreus* and related genera (Gastropoda: Muricidae) in the Indo-West Pacific. *Mémoires du Muséum national d'Histoire naturelle* ser. A 154(1): 1–188.

Howchin, W., and Cotton, B.C. 1936 (December). Description of a new cerithoid fossil shell. *Transactions of the Royal Society of South Australia* 60: 31–32.

Hull, A.F.B. 1910 (December). Description of a fossil *Lorica* from North–Western Tasmania. *Proceedings of the Linnean Society of New South Wales* 35(3): 654–655.

Hull, A.F.B. 1915 (February). On a collection of fossil *Polyplacophora* from North–Western Tasmania, with descriptions of three new species. *Proceedings of the Linnean Society of New South Wales* 39(4): 855–857.

Hutton, F.W. 1886 (August). Notes on some Australian Tertiary fossils. *Proceedings of the Linnean Society of New South Wales* 11(2): 481–482.

Janssen, A.W. 1990 (April). Pteropoda (Gastropoda, Euthecosomata) from the Australian Cainozoic. *Scripta Geologica* 91: 1–76.

Janssen, A.W. 2003 (December). Fossils from the Lower Globigerina Limestone Formation at Wardija, Gozo (Miocene, Aquitanian), with a description of some new pteropod species (Mollusca, Gastropoda). *The Central Mediterranean Naturalist* 4(1): 1–33.

Janssen, A.W., and Hellyar, L.L. 2017 (March). Pteropoda (Mollusca, Gastropoda, Euthecosomata) from the Miocene Taumaruni Formation of New Zealand. *New Zealand Journal of Geology and Geophysics* 60(1): 51–58.

Jenkins, H.M. 1865a (April). On the occurrence of a Tertiary species of *Trigonia* in Australia. *Quarterly Journal of Science* 2(6): 362–364.

Jenkins, H.M. 1865b (October). Strata identified by organic remains. *Quarterly Journal of Science* 2(8): 622–630.

Jenkins, H.M. 1866 (May). On the occurrence of a Recent species of *Trigonia* (*T. lamarckii*) in Tertiary deposits in Australia. *Geological Magazine* 3(23): 201–203.

Johnston, R.M. 1880 (December?). Third contribution to the natural history of the Tertiary marine beds of Table Cape, with a description of 30 new species of Mollusca. *Papers and Proceedings of the Royal Society of Tasmania* 1879: 29–41.

Johnston, R.M. 1885a (January). Additions to the list of Table Cape fossils, together with further remarks upon certain fossil shells supposed to be identical with living species. *Papers and Proceedings of the Royal Society of Tasmania* for 1884: 220–224.

Johnston, R.M. 1885b (January). Description of a new fossil shell from the Eocene beds, Table Cape. *Papers and Proceedings of the Royal Society of Tasmania* for 1884: 232.

Johnston, R.M. 1885c (January). Description of a new species of *Crepidula* from the Eocene beds, Table Cape. *Papers and Proceedings of the Royal Society of Tasmania* for 1884: 233.

Johnston, R.M. 1888 (November). *Systematic account of the geology of Tasmania*. Government Printer: Hobart.

Jung, P. 1966 (July). Zwei miocaene Arten von *Aturia* (Nautilaceae). *Eclogae Geologicae Helvetiae* 59(1): 485–492.

Keen, A.M., and Campbell, G.B. 1964 (July). Ten new species of Typhinae (Gastropoda: Muricidae) *Veliger* 7(1): 46–57.

Kesteven, H.L. 1902 (December). Notes on Prosobranchiata. No. i – *Lotorium*. *Proceedings of the Linnean Society of New South Wales* 27(3): 443–483.

Kesteven, H.L. 1912 (August). The constitution of the gastropod Protoconch: its value as a taxonomic feature and the significance of some of its forms. *Proceedings of the Linnean Society of New South Wales* 37(1): 49–82.

Košťák, M., Ruman, A., Schlögl, J., Hudáčková, N., Fuchs, D., and Mazuch, M. 2017 (April). Miocene sepiids (Cephalopoda, Coleoidea) from Australia. *Fossil Record* 20: 159–172.

Lamprell, K.L., and Healy, J.M. 1998 (June). A revision of the Scaphopoda from Australian waters (Mollusca). *Records of the Australian Museum*. Suppl. 24: 1–189.

Laseron, C.F. 1957 (June). A new classification of the Australian Marginellidae (Mollusca), with a review of species from the Solanderian and Dampierian zoogeographical provinces. *Australian Journal of Freshwater Research* 8 (3): 274–311.

Lebküchner, R. 1932 (June). Die Trigonien des süddeutschen Jura. *Palaeontographica* 77: 1–120.

Long, D.C. 1981 (September). Late Eocene and Early Oligocene Turridae (Gastropoda: Prosobranchiata) of the Brown's Creek and Glen Aire Clays, Victoria, Australia. *Memoirs of the National Museum of Victoria* 42: 15–55.

Lorenz, F. 1989 (December). Annotated descriptions of some new and old members of Cypraeidae. *Schriften zur Malakozoologie* 2: 1–38.

Ludbrook, N.H. 1941 (July). Gastropoda from the Abattoirs bore, Adelaide, South Australia together with a list of some miscellaneous fossils from the bore. *Transactions of the Royal Society of South Australia* 65(1): 79–102.

Ludbrook, N.H. 1955 (July). The molluscan fauna of the Pliocene strata underlying the Adelaide Plains, part II – Pelecypoda. *Transactions of the Royal Society of South Australia* 78: 18–87.

Ludbrook, N.H. 1956 (May). The molluscan fauna of the Pliocene strata underlying the Adelaide Plains, part III – Scaphopoda, Polyplacophora, Gastropoda (Haliotidae to Tornidae). *Transactions of the Royal Society of South Australia* 79: 1–36.

Ludbrook, N.H. 1957 (May). The molluscan fauna of the Pliocene strata underlying the Adelaide Plains, part IV – Gastropoda (Turritellidae to Struthiolariidae). *Transactions of the Royal Society of South Australia* 80: 17–58.

Ludbrook, N.H. 1958 (March). The molluscan fauna of the Pliocene strata underlying the Adelaide Plains, part V – Gastropoda (Eratoidae to Scaphandridae). *Transactions of the Royal Society of South Australia* 81: 43–111.

Ludbrook, N.H. 1959a (April). Revision of the Tate molluscan types. Scaphopoda. *Transactions of the Royal Society of South Australia* 82: 141–149.

Ludbrook, N.H. 1959b (April). A widespread Pliocene molluscan fauna with *Anodontia* in South Australia. *Transactions of the Royal Society of South Australia* 82: 219–233.

Ludbrook, N.H. 1961a (November). Revision of the Tate molluscan types. Pelecypoda – Nuculidae and Nuculanidae. *Transactions of the Royal Society of South Australia* 85: 55–65.

Ludbrook, N.H. 1961b. Stratigraphy of the Murray Basin in South Australia. *Bulletin of the Geological Survey of South Australia* 36: 1–96.

Ludbrook, N.H. 1965 (December). Revision of the Tate molluscan types, part 3: Limopsidae, Glycymeridae, Arcidae, Cucullaeidae. *Transactions of the Royal Society of South Australia* 89: 81–115.

Ludbrook, N.H. 1967 (June). Tertiary molluscan types from Table Cape in the Tasmanian Museum, Hobart. *Papers and Proceedings of the Royal Society of Tasmania* 101: 65–69

Ludbrook, N.H. 1969a (December). The genus *Miltha* (Mollusca: Bivalvia) in the Australian Cainozoic. *Transactions of the Royal Society of South Australia* 93: 55–63.

Ludbrook, N.H. 1969b. Tertiary period. Pp. 241–261 in: Parkin, L.W. (ed), *Handbook of South Australian Geology*. Geological Survey of South Australia: Adelaide.

Ludbrook, N.H. 1970. Geology of the Western Australian part of the Eucla Basin. *Geological Survey of Western Australia Bulletin* 122: 1–201.

Ludbrook, N.H. 1971 (March). Large gastropods of the families Diastomatidae and Cerithiidae (Mollusca: Gastropoda) in Southern Australia. *Transactions of the Royal Society of South Australia* 95(1): 29–42.

Ludbrook, N.H. 1973 (February). Distribution and stratigraphic utility of Cenozoic molluscan faunas in Southern Australia. *Tohoku University Science Reports* 2nd series (Geology) Special Volume 6: 241–261.

Ludbrook, N.H. 1978. Quaternary molluscs of the western part of the Eucla Basin. *Bulletin of the Geological Survey of Western Australia* 125: 1–286.

Ludbrook, N.H. 1983 (May). Molluscan faunas of the Early Pleistocene Point Ellen Formation and Burnham Limestone, South Australia. *Transactions of the Royal Society of South Australia* 107(1–2): 37–49.

Ludbrook, N.H. 1984. Quaternary molluscs of South Australia. *Department of Mines and Energy, South Australia, Handbook* 9: 1–327.

Ludbrook, N.H., and Steel, T.M. 1961 (April). A late Tertiary bivalve gastropod from South Australia. *Proceedings of the Malacological Society of London* 34(4): 228–230.

McCoy, F. 1866a (November). On some new species of fossil volutes from the Tertiary beds near Melbourne. *Annals and Magazine of Natural History* series 3, 18(107): 375–381.

McCoy, F. 1866b (November). On the Australian Tertiary species of *Trigonia*. *Geological Magazine* 3(29): 481–482.

McCoy, F, 1867a (June). On the Recent Zoology and Palaeontology of Victoria. Pp. 305–330 in: *Intercolonial Exhibition Essays. 1866–1867*. Publisher: Melbourne.

McCoy, F. 1867b (September). On the Recent Zoology and Palaeontology of Victoria. *Annals and Magazine of Natural History* series 3, 20(117): 175–202.

McCoy, F. 1867c (December). Description of two new fossil cowries characteristic of Tertiary beds near Melbourne. *Annals and Magazine of Natural History* series 3, 20(120): 436–438.

McCoy, F. 1874 (August). *Prodromus of the Palaeontology of Victoria: decade 1*. Geological Survey of Victoria: Melbourne.

McCoy, F. 1875a (May). On a third new Tertiary species of *Trigonia*. *Annals and Magazine of Natural History* series 4, 15(89): 316–317.

McCoy, F. 1875b (June). *Prodromus of the Palaeontology of Victoria: decade 2*. Geological Survey of Victoria: Melbourne.

McCoy, F. 1875c (August). On a Tertiary *Pleurotomaria*. *Annals and Magazine of Natural History* series 4, 16(92): 101–102.

McCoy, F. 1876 (March). *Prodromus of the Palaeontology of Victoria: decade 3*. Geological Survey of Victoria: Melbourne.

McCoy, F. 1877 (January). *Prodromus of the Palaeontology of Victoria: decade 4*. Geological Survey of Victoria: Melbourne.

McCoy, F. 1878 (January). *Prodromus of the Palaeontology of Victoria: decade 5*. Geological Survey of Victoria: Melbourne.

McCoy, F. 1879 (April). *Prodromus of the Palaeontology of Victoria: decade 6*. Geological Survey of Victoria: Melbourne.

McGowran, B. 1959 (May). Tertiary nautiloids (*Eutrephoceras* and *Cimomia*) from South Australia. *Journal of Paleontology* 33(3): 435–448.

McNamara, K.J., and Kendrick, G.W. 1994 (July). Cenozoic molluscs and echinoids of Barrow Island, Western Australia. *Records of the Western Australian Museum* Suppl. 51.

Marshall, B.A. 1995 (April). Recent and Tertiary Trochaclidae from the southwest Pacific (Mollusca: Gastropoda: Trochoidea). *Veliger* 38(2): 92–115.

Marwick, J. 1924a (May). An examination of some of the Tertiary Mollusca claimed to be common to Australia and New Zealand. *Report of the Australasian Association for the Advancement of Science* 16: 316–331.

Marwick, J. 1924b (September). The Struthiolariidae. *Transactions of the New Zealand Institute* 55: 161–190.

Marwick, J. 1928 (February). The Tertiary Mollusca of the Chatham Islands including a generic revision of the New Zealand Pectinidae. *Transactions of the New Zealand Institute* 58: 432–506.

Marwick, J. 1934 (March). Some New Zealand Tertiary Mollusca. *Proceedings of the Malacological Society of London* 21(1): 10–21.

Marwick, J. 1938 (June). *Notocallista* and its allies. *Transactions of the Royal Society of New Zealand* 68: 60–81.

Marwick, J. 1952 (January). *Singletonaria*, a new genus of the Struthiolariidae from the Australian Pliocene. *Proceedings of the Malacological Society of London* 29(2–3): 83–85.

Marwick, J. 1960 (January). A new Pliocene struthiolariid (Gastropoda) from Flinders Island, Tasmania. *Proceedings of the Royal Society of Victoria* 72(1): 41–44.

Matsukuma, A, 1980. Glycymeridid bivalves from Japan and adjacent areas, part II: Indo-Western Pacific species of *Melaxinaea* Iredale, 1930 (Pliocene to Recent). *Acta Geologica Polonica* 30(2): 199–213.

May, W.L. 1919 (April). Critical remarks on the Table Cape fossil Mollusca in the Johnston collection, with figures. *Papers and Proceedings of the Royal Society of Tasmania* for 1918: 69–73.

May, W.L. 1922 (March). New species of fossil shells from Table Cape. *Papers and Proceedings of the Royal Society of Tasmania* for 1921: 9–12.

Merle, D., Garrigues, B., and Pointier, J.–P. 2011. *Fossil and Recent Muricidae of the world: part Muricinae*. Conch Books: Hackenheim. 648 pp.

Merle D., and Pacaud J.-M. 2003 (March). New species of *Eocithara* Fischer, 1883 (Mollusca, Gastropoda, Harpidae) from the Early Paleogene with phylogenetic analysis of the Harpidae. *Geodiversitas* 26(1): 61–87.

Middelfart, P. 2002 (December). Revision of the Australian Cuninae *sensu lato* (Bivalvia: Carditoidea: Condylocardiidae). *Zootaxa* 112: 1–124.

Miller, A.K. 1947. Tertiary nautiloids of the Americas. *Memoirs of the Geological Society of America* 23: 1–234.

Miller, A.K., and Crespin, I. 1939 (January). An *Aturia* from the Northwest Division of Western Australia. *Journal of Paleontology* 13(1): 79–81.

Modica, M.V. Verhecken, A., and Oliverio, M. 2011 (March). The relationships of the enigmatic neogastropod *Loxotraphrus* (Cancellariidae). *New Zealand Journal of Geology and Geophysics* 54(1): 115–124.

Morton, B. 2006 (March). A new species and first record of the endobenthic clavagellid *Stirpulina* (Bivalvia: Anomalodesmata) from the late Eocene of southern Western Australia. *Alcheringa* 30(1): 103–110.

Newton, R.B. 1919 (October). On a sandstone cast of *Aturia aturi* (Basterot), from the Miocene of Western Australia. *Proceedings of the Malacological Society of London* 13(5–6): 160–167.

Pacaud, J.-M. 2019 (April). Sur la position systématique du genre *Capistrocardia* Tate, 1887 (Mollusca, Bivalvia, Pharidae). *Folia Conchyliologica* 48: 21–25.

Ponder, W.F. 1973 (March). A review of the Australian species of *Penion* Fischer (Neogastropoda: Buccinidae). *Journal of the Malacological Society of Australia* 2(4): 401–428.

Ponder, W.F. 1983a (June). A new species of *Galeodea* (Cassidae, Gastropoda) from Queensland, Australia. *Journal of the Malacological Society of Australia* 6(1–2): 91–97.

Ponder, W.F. 1983b (December). A revision of the Recent Xenophoridae of the world and of the Australian fossil species (Mollusca: Gastropoda). *Memoirs of the Australian Museum* 17: 1–126.

Ponder, W.F. 1984. A review of the genera of the Iravadiidae (Gastropoda: Rissoacea) with an assessment of the relationships of the family. *Malacologia* 25(1): 21–71

Ponder, W.F. 1985a (February). A review of the genera of Rissoidae (Mollusca: Mesogastropoda: Rissoacea). *Records of the Australian Museum* Suppl. 4: 1–221.

Ponder, W.F. 1985b (June). A revision of the genus *Botelloides* (Mollusca: Gastropoda: Trochacea). *Special Publications of the South Australian Department of Mines and Energy* 5: 301–327.

Ponder, W.F. Cowan, P.H., Yonge, C.M., and Colman, M.H. 1981 (August). The taxonomic position of *Hemidonax* Mörch, 1871 with a review of the genus (Bivalvia: Cardiacea). *Journal of the Malacological Society of Australia* 5(1–2): 41–64.

Ponder, W.F., and Darragh, T.A. 1975 (August). The genus *Zemira* H., and A. Adams (Mollusca: Neogastropoda). *Journal of the Malacological Society of Australia* 3(2): 89–109.

Ponder, W.F., and de Keyzer, R. 1992. A revision of the genus *Diala* (Gastropoda: Cerithioidea: Dialidae). *Invertebrate Taxonomy* 6(4): 1019–1075.

Ponder, W.F., Lindberg, D.L., and Ponder, J.M. 2020. *Biology and evolution of the Mollusca* (vol. 2). CRC Press: Boca Raton.

Ponder, W.F., and Vokes, E.H. 1988 (April). A revision of the Indo–West Pacific fossil and Recent species of *Murex* s.s., and *Haustellum* (Mollusca: Gastropoda: Muricidae). *Records of the Australian Museum* Suppl. 8: 1–160.

Ponder, W.F., and Yoo, E.K. 1976 (July). A revision of the Australian and tropical Indo–Pacific Tertiary and Recent species of *Pisinna* (= *Estea*) (Mollusca: Gastropoda: Rissoidae). *Records of the Australian Museum* 30(10): 150–247.

Ponder, W.F., and Yoo, E.K. 1978 (October). A revision of the Eatoniellidae of Australia (Mollusca, Gastropoda, Littorinacea). *Records of the Australian Museum* 31(15): 606–658.

Ponder, W.F., and Yoo, E.K. 1981 (February). A review of the genera of the Cingulopsidae with a revision of the Australian and tropical Indo-Pacific species (Mollusca: Gastropoda: Prosobranchia). *Records of the Australian Museum* 33(1): 1–88.

Poutiers, J.–M. 1992 (August). The Australasian Protocardiinae revisited (Bivalvia: Cardiidae). *American Malacological Bulletin* 9(2): 139–144.

Powell, A.W.B. 1938 (December). Tertiary molluscan faunules from the Waitemata beds. *Transactions of the Royal Society of New Zealand* 68(3): 362–379.

Powell, A.W.B. 1942 (July). The New Zealand Recent and Fossil Mollusca of the family Turridae. *Bulletin of the Auckland Institute and Museum* 2: 1–188.

Powell, A.W.B. 1944 (September). The Australian Tertiary Mollusca of the family Turridae. *Records of the Auckland Institute and Museum* 3(1): 3–68.

Powell, A.W.B. 1964 (March). The family Turridae in the Indo–Pacific, part 1: the sub–family Turrinae. *Indo–Pacific Mollusca* 1(5): 227–345.

Powell, A.W.B. 1966 (November). The molluscan families Speightiidae and Turridae. *Bulletin of the Auckland Institute and Museum* 5: 1–184.

Powell, A.W.B. 1969 (September). The family Turridae in the Indo–Pacific, part 2: the subfamily Turriculinae. *Indo–Pacific Mollusca* 2(10): 207–415.

Pritchard, G.B. 1895 (January). Contributions to the palaeontology of the Older Tertiary of Victoria: Lamellibranchs – part 1. *Proceedings of the Royal Society of Victoria* 7: 225–231.

Pritchard, G.B. 1896 (April). A revision of the fossil fauna of the Table Cape beds, Tasmania, with descriptions of new species. *Proceedings of the Royal Society of Victoria* 8: 74–150.

Pritchard, G.B. 1898 (September). Contributions to the palaeontology of the Older Tertiary of Victoria: Gastropoda – part I. *Proceedings of the Royal Society of Victoria* 11(1): 96–111.

Pritchard, G.B. 1901 (August). Contributions to the palaeontology of the Older Tertiary of Victoria: Lamellibranchs – part II. *Proceedings of the Royal Society of Victoria* 14(1): 22–31.

Pritchard, G.B. 1903a (February). Contributions to the palaeontology of the Older Tertiary of Victoria. Lamellibranchs – part III. *Proceedings of the Royal Society of Victoria* 15(2): 87–103.

Pritchard, G.B. 1903b (September). On some Australian Tertiary Pleurotomarias. *Proceedings of the Royal Society of Victoria* 16(1): 83–91.

Pritchard, G.B. 1904 (September). Contributions to the Palaeontology of the Older Tertiary of Victoria: Gastropoda – part II. *Proceedings of the Royal Society of Victoria* 17(1): 320–337.

Pritchard, G.B. 1906 (October). Some palaeontological notes. *Victorian Naturalist* 23(6): 117–120.

Pritchard, G.B. 1913 (September). A revision of the fossil volutes of the Table Cape beds, Tasmania, with descriptions of new species and varieties. *Proceedings of the Royal Society of Victoria* 26(1): 192–201.

Rehder, H.A. 1973 (November). The family Harpidae of the world. *Indo–Pacific Mollusca* 3(16): 207–274.

Robertson, R. 1985 (July). Archaeogastropod biology and the systematics of the genus *Tricolia* (Trochacea; Tricoliidae) in the Indo-West Pacific. *Monographs of Marine Mollusca* 3: 1–104.

Rosewater, J. 1961 (September). The family Pinnidae in the Indo-Pacific. *Indo-Pacific Mollusca* 1(4): 175–226.

Sacco, F. 1904 (August). *I Molluschi dei Terreni Terziarii del Piemonte e della Liguria* 30: I–XXXVI, 1–203.

Saunders, W.B., Shimansky, V.N., and Amitrov, O.V. 1996 (July). Clarification of *Nautilus praepompilius* Shimanksy from the Late Eocene of Kazakhstan. *Journal of Paleontology* 70(4): 609–611.

Schilder, F.A. 1926 (March). Additions and corrections to Vredenburg's classification of the Cypraeidae. *Records of the Geological Survey of India* 58(4): 358–379.

Schilder, F.A. 1927. Revision der Cypraeacea (Moll. Gastr.). *Archiv für Naturgeschichte* (A), 91(10): 1–171.

Schilder, F.A. 1930 (November). The Gisortiidae of the world. *Proceedings of the Malacological Society of London* 19(3): 118–138.

Schilder, F.A. 1932a (October). Neue fossile Cypraeacea (Moll. Gastr.). *Sitzungsberichte der Gesellschaft Naturforschender Freunde zu Berlin* 1932(4–7): 254–269.

Schilder, F.A. 1932b (October). Cypraeacea. *Fossilium Catalogus* I Animalia 55. Junk: Berlin.

Schilder, F.A. 1933 (July). Monograph of the subfamily Eratoinae. *Proceedings of the Malacological Society of London* 20(5): 244–283.

Schilder, F.A. 1935 (November). Revision of the Tertiary Cypraeacea of Australia and Tasmania. *Proceedings of the Malacological Society of London* 21(6): 325–355.

Schilder, F.A. 1941 (May). Verwandtschaft und Verbreitung der Cypraeacea. *Archiv für Molluskenkunde* 73(2–3): 57–120.

Schilder, F.A. 1966 (December). Neue fossile Cypraeacea und Triviacea aus Australien. *Archiv für Molluskenkunde* 95(5–6): 269–274.

Sharp, B., and Pilsbry, H.A. 1898 (May). *Manual of Conchology* 17(67), Scaphopoda: 145–224. Academy of Natural Sciences: Philadelphia.

Shimansky, V.N. 1957. Noviypredstaveliotryada Nautilida v SSSR (New members of the order Nautilida in the USSR). *Paleontologicheski Institut Materialy k Osnovam Paleontologii* 1: 35–41.

Singleton, F.A. 1932 (April). Studies in Australian Tertiary Mollusca, part I. *Proceedings of the Royal Society of Victoria* 44(2): 289–308.

Singleton, F.A. 1941 (July). Studies in Australian Tertiary Mollusca, part II. *Proceedings of the Royal Society of Victoria* 53(2): 423–428.

Singleton, F.A. 1943 (October). An Eocene molluscan fauna from Victoria. *Proceedings of the Royal Society of Victoria* 55(2): 267–278.

Singleton, F.A., and Woods, N.H. 1934 (May). On the occurrence of the pelecypod genus *Miltha* in the Australian Tertiary. *Proceedings of the Royal Society of Victoria* 46(2): 207–213.

Skwarko, S.K. 1967 (January). The first report of *Neotrigonia* from New Guinea. *Bulletin of the Bureau of Mineral Resources, Geology and Geophysics of Australia* 92: 191–194.

Smith, B.J. 1971 (September). A revision of the family Clavagellidae (Pelecypoda, Mollusca) from Australia, with descriptions of two new species. *Journal of the Malacological Society of Australia*. 2(2): 135–161.

Snyder, M.A., Vermeij, G.J., and Lyons, W.G. 2012. The genera and biogeography of Fasciolariinae (Gastropoda, Neogastropoda, Fasciolariidae). *Basteria* 76(1–3): 31–70.

Southgate, P.C., Militz, T.A., and Roberts, M. 2021 (September). A new species of *Umbilia* Jousseaume, 1884 (Mollusca: Cypraeidae) from the Australian Pliocene. *Molluscan Research* 41(3): 214–221.

Southgate, P. C., and Militz, T.A. 2023 (July). A new species of *Umbilia* Jousseaume, 1884 (Mollusca: Cypraeidae) from the Pliocene fauna of the Roe Plains, Western Australia. *ZooKeys* 1169: 1–13.

Southgate, P.C., and Roberts, M. 2022 (October). A new species of *Austrocypraea* (Mollusca, Gastropoda, Cypraeidae) from the Pliocene of Flinders Island, Tasmania. *ZooKeys* 1123: 173–185.

Stilwell, J.D. 2003 (September). Macropalaeontology of the *Trochocyathus – Trematotrochus* band (Paleocene/Eocene boundary), Dilwyn Formation, Otway Basin, Victoria. *Alcheringa* 27: 245–275.

Stilwell, J.D. 2005 (September). A rare late Paleocene molluscan faunule from the Kings Park Formation, Perth Basin, Western Australia. *Alcheringa* 29: 331–340.

Strzelecki, P.E. 1845 (May). *Physical description of New South Wales and Van Diemen's Land, accompanied by a geological map, sections, and diagrams, and figures of the organic remains.* Longman, Brown, Green, and Longmans: London.

Sturt, C. 1833 (June). *Two expeditions into the interior of southern Australia*. Vol. 2. Smith, Elder & Co.: London.

Suter, H. 1913 (March). *Manual of the New Zealand Mollusca*. Government Printer: Wellington.

Tate, R. 1879 (May). The fossil Marginellidae of Australasia. *Transactions of the Philosophical Society of Adelaide* (1877–78): 90–98.

Tate, R. 1880 (February). Zoologica et Palaeontologica Miscellanea, chiefly relating to South Australia. *Transactions of the Philosophical Society of Adelaide* (1878–1879): 129–140.

Tate, R. 1882 (December). Diagnoses of new species of Miocene fossils from South Australia. *Transactions of the Royal Society of South Australia* 5: 44–46.

Tate, R. 1885a (January). Miscellaneous contributions to the palaeontology of the older rocks of Australia. *Southern Science Record* new series, 1(1): 1–5.

Tate, R. 1885b (January). Description of new species of Mollusca of the Upper Eocene beds at Table Cape. *Papers and Proceedings of the Royal Society of Tasmania* for 1884: 226–231.

Tate, R. 1886a (January). The fossil Terebridae of Australia. *Southern Science Record* new series, 2(1): 4–7.

Tate, R. 1886b (May). The lamellibranchs of the Older Tertiary of Australia (part I). *Transactions of the Royal Society of South Australia* 8: 96–158.

Tate, R. 1887a. The lamellibranchs of the Older Tertiary of Australia (part II). *Transactions of the Royal Society of South Australia* 9: 142–189.

Tate, R. 1887b (March). The scaphopods of the Older Tertiary of Australia. *Transactions of the Royal Society of South Australia* 9: 190–194, 199.

Tate, R. 1887c (March). The pteropods of the Older Tertiary of Australia. *Transactions of the Royal Society of South Australia* 9: 194–196, 199.

Tate, R. 1888 (August). The gastropods of the Older Tertiary of Australia – part I. *Transactions of the Royal Society of South Australia* 10: 91–176.

Tate, R. 1889 (April). The gastropods of the Older Tertiary of Australia – part II. *Transactions of the Royal Society of South Australia* 11: 116–174.

Tate, R. 1890 (December). The gastropods of the Older Tertiary of Australia – part III. *Transactions of the Royal Society of South Australia* 13(2): 185–235.

Tate, R. 1891 (December). Descriptions of new species of Australian Mollusca, recent and fossil. *Transactions of the Royal Society of South Australia* 14(2): 257–265.

Tate, R. 1892 (July). Nine plates illustrative of Prof. Tate's paper on the Gastropoda of the Tertiary of Australia – part 3 in volume 13 of the Society's Transactions. *Transactions of the Royal Society of South Australia* 15(1).

Tate, R. 1893 (December). The gastropods of the Older Tertiary of Australia – part IV. *Transactions of the Royal Society of South Australia* 17(2): 316–345.

Tate, R. 1894 (April). Unrecorded genera of the Older Tertiary fauna of Australia, including diagnoses of some new genera and species. *Journal and Proceedings of the Royal Society of New South Wales* 27: 167–197.

Tate, R. 1895 (December). Abstract of Proceedings, Ordinary Meeting, September 3, 1895: exhibits. *Transactions of the Royal Society of South Australia* 19(2): 262–3.

Tate, R. 1898a (May). A second supplement to a census of the fauna of the Older Tertiary of Australia. *Journal and Proceedings of the Royal Society of New South Wales* 31: 381–416

Tate, R. 1898b (July). On two deep–level deposits of Newer Pleistocene in South Australia. *Transactions of the Royal Society of South Australia* 22(1): 65–71.

Tate, R. 1898c (December). On some Australian species of Eulimidae and Pyramidellidae. *Transactions of the Royal Society of South Australia* 22(2): 80–85.

Tate, R. 1898d (December). On some recent and fossil Australasian species of Philobryae. *Transactions of the Royal Society of South Australia* 22(2): 86–89.

Tate, R. 1899a (August). On some Older Tertiary fossils of uncertain age from the Murray Desert. *Transactions of the Royal Society of South Australia* 23(1): 102–111.

Tate, R. 1899b (December). A revision of the Older Tertiary Mollusca of Australia: part I. *Transactions of the Royal Society of South Australia* 23(2): 249–277.

Tate, R., and Dennant, J. 1896 (September). Correlation of the marine Tertiaries of Australia: part III. South Australia and Tasmania. *Transactions of the Royal Society of South Australia* 20(1): 118–148.

Tate, R., Howchin, W., and David, T.W.E. 1896 (April). Evidence of glaciations at Hallett's Cove. *Report of the Australasian Association for the Advancement of Science* 6: 315–320.

Taylor, J.D., Glover, E.A. Smith, L., Dyal, P., and Williams, S.T. 2011 (August). Molecular phylogeny and classification of the chemosymbiotic bivalve family Lucinidae (Mollusca: Bivalvia). *Zoological Journal of the Linnean Society* 163(1): 15–49.

Teichert, C. 1943 (October). Eocene nautiloids from Victoria. *Proceedings of the Royal Society of Victoria* 55(2): 257–264.

Teichert, C. 1944 (January). The genus *Aturia* in the Tertiary of Australia. *Journal of Palaeontology* 18(1): 73–82.

Teichert, C. 1947a (March). Notes on Eocene nautiloids from Victoria. *Mining and Geological Journal* 3(1): 40–43.

Teichert, C. 1947b (September). New nautiloids from the Older Tertiary of Victoria. *Mining and Geological Journal* 3(2): 48–51.

Teichert, C., and Cotton, B.C. 1949 (May). A new *Aturia* from the Tertiary of South Australia. *Records of the South Australian Museum*. 9(2): 255–256.

Teichert, C., and Glenister, B.F. 1952 (September). Fossil nautiloid faunas from Australia. *Journal of Paleontology* 26(5): 730–752.

Tenison Woods, J.E. 1865. On the Tertiary rocks of South Australia. No. II. The Mount Gambier fossils (*South Australian Register* 29 May 1865, p. 3). Republished 1865 *Papers of the Adelaide Philosophical Society 1864–1865*.

Tenison Woods, J.E. 1876 (December?). On some Tertiary fossils from Table Cape. *Papers and Proceedings of the Royal Society of Tasmania* (1875): 13–26.

Tenison Woods, J.E. 1877 (December). Notes on the fossils referred to in the foregoing paper [i.e. by R.M. Johnston]. *Papers and Proceedings of the Royal Society of Tasmania* for 1876: 91–116.

Tenison Woods, J.E. 1879a (March). On some Tertiary fossils from Muddy Creek, Western Victoria. *Proceedings of the Linnean Society of New South Wales* 3(3): 222–240.

Tenison Woods, J.E. 1879b (June). On some Tertiary fossils. *Proceedings of the Linnean Society of New South Wales* 4(1): 1–20.

Tenison Woods, J.E. 1879c (June). On some new marine shells from Moreton Bay. *Proceedings of the Linnean Society of New South Wales* 4(1): 108–111.

Tevesz, M.J.S. 1977 (March). Taxonomy and ecology of the Philobryidae and Limopsidae (Mollusca: Pelecypoda). *Postilla* 171: 1–64.

Tucker, J.K. 1993 (October). The nomenclatural status of four species of Australian Turridae attributed to Ralph Tate by Maurice Cossmann in the *Essais de Paléoconchologie compare* of 1896. *Journal of the Malacological Society of Australia* 14: 73–76.

Vella, P. 1961. Australian Typhinae (Gastropoda with notes on the subfamily. *Palaeontology* 4(3): 362–391.

Vermeij, G. 2001 (April). Innovation and evolution at the edge: origins and fates of gastropods with a labral tooth. *Biological Journal of the Linnean Society* 72(4): 461–508.

Vokes, E.H. 1974a (August). A new species and subgenus of Australian *Dermomurex* (Gastropoda: Muricidae). *Journal of the Malacological Society of Australia* 3(1): 1–5.

Vokes, E.H. 1974b (August). Three species of Australian Muricidae (Gastropoda) with ancestors in the American Tertiary. *Journal of the Malacological Society of Australia* 3(1): 7–14.

Vokes, E.H. 1975 (February). Cenozoic Muricidae of the Western Atlantic region, part VI – *Aspella* and *Dermomurex*. *Tulane Studies in Geology and Paleontology* 11(3): 121–162.

Vokes, E.H. 1985a (June). The genus *Dermomurex* (Mollusca: Gastropoda) in Australia. *Journal of the Malacological Society of Australia* 7(1–2): 45–65.

Vokes, E.H. 1985b (June). *Murexiella perculta* sp. nov. (Gastropoda: Muricidae), from the Miocene of Victoria. *Journal of the Malacological Society of Australia* 7(1–2): 67–73.

Vokes, E.H. 1993 (October). Review of the muricine subgenus *Pterynotus* (*Pterochelus*) in Australia. *Journal of the Malacological Society of Australia* 14: 83–105.

Ward, P.D., Flannery, D.T.O., Flannery, E.N.F., and Flannery, T.F.F. 2016 (July). The Paleocene cephalopod fauna from Pebble Point, Victoria (Australia) – fulcrum between two eras. *Memoirs of Museum Victoria* 74: 391–402.

Whittle, R.J., Linse, K., and Griffiths, H.J. 2011 (July). The fossil record of *Limopsis* (Bivalvia: Limopsidae) in Antarctica and the southern high latitudes. *Palaeontology* 54(4): 935–952.

Wilkins, R.W.T. 1963 (January). *Miltha* in the South-Eastern Australian Tertiary. *Journal of the Malacological Society of Australia* 6: 43–49.

Willan, R.C. 1993 (October). Taxonomic revision of the family Psammobiidae (Bivalvia: Tellinoidea) in the Australian and New Zealand region. *Records of the Australian Museum* Suppl. 18: 1–132.

Wilson, B.R. 1972 (March). New species and records of Volutidae (Gastropoda) from Western Australia. *Journal of the Malacological Society of Australia* 2(3): 339–360.

Wilson, B.R. 1993. *Australian Marine Shells: Prosobranch Gastropods*. 1. Odyssey; Kallaroo. 408 pp.

Wilson, B.R., and Clarkson, P. 2004 (August). *Australia's spectacular cowries: a review and field study of two endemic genera: Zoila and Umbilia*. Odyssey Publishing: El Cajon. 396 pp.

Wilson, B.R., and Gillett, K. 1971 (October). *Australian shells*. Reed: Sydney. 168 pp.

Woods, J.E. 1862 (December). *Geological observations in South Australia: principally in the district south east of Adelaide*. Longman, Green, Longman, Roberts, & Green: London.

Woods, N.H. 1931 (December). Pelecypoda from the Abattoirs Bore, including twelve new species. *Transactions of the Royal Society of South Australia* 55: 147–151.

Yates, A.M. 2008 (December). Two new cowries (Gastropoda: Cypraeidae) from the middle Miocene of South Australia. *Alcheringa* 32(4): 353–364.

Yates, A.M. 2009 (March). The oldest South Australian cowries (Gastropoda: Cypraeidae) from the Paleogene of the St Vincent Basin. *Alcheringa* 33(1): 23–31.

Yates, A.M. 2010. The enigmatic "*Gaskoinia*" *bullaeformis* Tate, an African cowrie (Gastropoda: Cypraeoidea) in Australia? *Proceedings of the 16th Conference of the Palaeontological Society of Southern Africa (Howick, August 5–8, 2010)* Pietermaritzburg, pp. 118–121.

Yates, A.M. 2011 (March). A new species of watering pot shell (Bivalvia: Anomalodesmata: Clavagelloidea) from the Miocene of the Murray Basin, South Australia. *Palaeontology* 54(2): 373–384.

Yates, A.M. 2022 (October). A new volute, *Ericusa ngayawang* sp. nov. (Gastropoda: Volutidae), from the Miocene of South Australia. *PeerJ*. 10: e14197.

## General references

These references have no taxonomic significance and are not cited in the checklist but are included for the sake of completeness. Most of the references include listings of species.

Bergmans, W. 1978 (December). Taxonomic revision of Recent Australian Nuculidae (Mollusca: Bivalvia) except *Ennucula* Iredale, 1931. *Records of the Australian Museum* 31(17): 673–736.

Cotton, B.C. 1947 (June). Australian Recent and Tertiary Turridae. *Publications of the Field Naturalists Section of the Royal Society of South Australia Conchological Club* 4: 1–34.

Cotton, B.C. 1951 (June). Australian Recent and Tertiary Mollusca: family Cerithiopsidae. *Records of the South Australian Museum* 9(4): 383–396.

Cotton, B.C. 1954. Family Cassidae. *Publications of the Malacological Section of the Royal Society of South Australia* 4.

Cotton, B.C. 1955. Family Olividae. *Publications of the Malacological Section of the Royal Society of South Australia* 6.

Cotton, B.C. 1955. Family Nassariidae. *Publications of the Malacological Section of the Royal Society of South Australia* 7.

Cotton, B.C. 1956. Family Scalidae. *Publications of the Malacological Section of the Royal Society of South Australia* 9.

Cotton, B.C. 1956. Family Buccinidae. *Publications of the Malacological Section of the Royal Society of South Australia* 10.

Cotton, B.C. 1957. Family Fasciolariidae. *Publications of the Malacological Section of the Royal Society of South Australia* 11.

Cotton, B.C. 1957. *Australian Recent and Tertiary species of the molluscan family Volutidae*. Author: Adelaide.

Cotton, B.C. 1957. Family Turritellidae. *Publications of the Malacological Society of Australia* 3.

Cotton, B.C. 1957. Family Cymatiidae. *Publications of the Malacological Society of Australia* 4.

Cotton, B.C. 1957. *Australian Recent and Tertiary species of the molluscan family Pyrenidae*. Author: Adelaide.

Cotton, B.C. 1957. Family Mitridae. *Publications of the Malacological Section of the Royal Society of South Australia* 12.

Cotton, B.C. 1958. *Australian Recent and Tertiary species of the molluscan family Conidae*. Author: Adelaide.

Cotton, B.C. 1959. Family Potamidae. *Publications of the Malacological Section of the Royal Society of South Australia* 13.

Cotton, B.C. 1959. *South Australian Mollusca. Archaeogastropoda*. Government Printer: Adelaide.

Cotton, B.C. 1961. *South Australian Mollusca. Pelecypoda*. Government Printer: Adelaide.

Cotton, B.C., and Godfrey, F.K. 1938 (May). *The molluscs of South Australia, part I: Pelecypoda*. Government Printer: Adelaide.

Darragh, T.A. 1979. New species of Athleta (Ternivoluta) and Nannamoria (Mollusca: Volutidae) from the Capricorn Channel, Central Queensland, Australia. *Journal of the Malacological Society of Australia* 4(3): 129–134.

Finlay, H.J. 1931. On Turbo postulatus Bartrum: does it indicate a Pliocene connection with Australia? *Transactions of the New Zealand Institute* 62: 1–6.

Hutton, F.W. 1886 (August). Notes on some Australian Tertiary fossils. *Proceedings of the Linnean Society of New South Wales* 11(2): 481–482.

Ludbrook, N.H. 1954 (July). The molluscan fauna of the Pliocene strata underlying the Adelaide Plains: part I. *Transactions of the Royal Society of South Australia* 77: 42–64.

Marwick, J. 1957 (March). Generic revision of the Turritellidae. *Proceedings of the Malacological Society of London* 32(4): 144–166.

May, W.L. 1919. A revised census of the Mollusca and Brachiopoda in the Table Cape beds. *Papers and Proceedings of the Royal Society of Tasmania* (1918): 101–107.

Schilder, M., and Schilder, F.A. 1971. A catalogue of living and fossil Cowries. *Mémoires Institut Royal des Sciences Naturelles de Belgique* 2nd series 85: 1–246.

Singleton, F.A. 1941. The Tertiary geology of Australia. *Proceedings of the Royal Society of Victoria* 53(1): 1–125.

Singleton, F.A. 1945. A catalogue of type and figured specimens of fossils in the Melbourne University Geology Department. *Proceedings of the Royal Society of Victoria* 56(2): 229–284.

Tate, R. 1885. Notes of a critical examination of the Mollusca of the Older Tertiary of Tasmania, alleged to have living representatives. *Papers and Proceedings of the Royal Society of Tasmania* (1884): 207–214.