

TERTIARY MOLLUSCAN TYPES FROM TABLE CAPE IN THE TASMANIAN MUSEUM, HOBART

By

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ABSTRACT

Figures and synonymies are given of the fifty-one primary types of Mollusca described from the Tertiary beds of the Table Cape Group which remain in the Tasmanian Museum.

INTRODUCTION

During a visit to Hobart in August, 1965, for the meeting of the Australian and New Zealand Association for the Advancement of Science, the writer was kindly given permission by the Director of the Tasmanian Museum to examine and photograph the Table Cape fossil molluscs described by Tenison Woods in 1876 and 1877. These, together with some described by Johnston between 1877 and 1888 and by May in 1919 and 1921, form an important collection of primary types, most of which have been figured by drawings only, but some have remained unfigured. Eleven of the species were not listed by Crespin (1964).

Although the collection represents only a small percentage of the material described by Tenison Woods and Johnston, it appears to be all that remains in Hobart.

With the exception of ten small species figured on Plate 2, the photographs illustrating this paper were taken with a Zeiss Contaflex IV 35 mm camera, the light source being two Leitz MONLA microscope lamps. Mr. M. R. Banks kindly made arrangements for the small specimens to be photographed in the Geology Department of the University of Tasmania. Unless otherwise stated, all specimens are reproduced at natural size. Some of the types could not be well oriented because they are glued to cardboard mounts.

STRATIGRAPHIC SETTING

The Table Cape Mollusca were collected from the two formations comprising the Table Cape Group (Banks, 1962). The lower, the Freestone Cove Sandstone, is the "Crassatella Bed" of Johnston (1877, p. 84) and the upper, the Fossil Bluff Sandstone, is Johnston's "Turritella Group" (1. c. p. 82). The richest molluscan fauna is in the Freestone Cove Sandstone.

The Table Cape Group has usually been assigned to the Janjukian Stage in the broad sense of Singleton 1941, that is, representing the interval of time required for the deposition of the two formations described by Raggatt and Crespin (1955) as the Jan Juc and the Puebla Formations. The molluscan fauna of the "Crassatella Bed" was by Pritchard (1896, p. 77) regarded as the "direct equivalent of the so-called middle beds of the Spring Creek section in Victoria", i.e. with part of the Puebla Formation and of early Longfordian and not Janju-

kian age. Although the microfaunas from the Freestone Cove and Fossil Bluff Sandstone have not been studied, they appear to be of Longfordian age, equivalent to Carter's (1959) faunal unit 6. This represents the highest occurrence of *Sherbornina atkinsoni* which in the Freestone Cove Sandstone is associated with benthonic foraminifera of Miocene aspect not known in South Australia or Gippsland (Carter, 1964) to occur below the Longfordian.

The planktonic foraminifera are consistent with those of Unit 6. As there appears to be fairly general acceptance of a Miocene age for sediments containing Unit 6, the Table Cape Group is of Lower Miocene rather than Upper Oligocene age.

TYPES OF THE TABLE CAPE MOLLUSCA

The Table Cape types are listed below under their registered numbers and original names. A brief synonymy is then given under the name (in bold type) which should now be used for the species so far as could be determined from the relatively brief examination. All types are holotypes unless otherwise stated.

Leda crebrecostrata Tenison Woods Z178, pl. 2, fig. 40.

Nuculana (Scaeoleda) crebrecostrata (Tenison Woods)

1877. *Leda crebrecostrata* Tenison Woods, p. 112.

1886. *Leda crebrecostrata*; Tate, p. 133, pl. V, figs. 5a-b.

1955. *Nuculana (Scaeoleda) crebrecostrata*; Ludbrook, p. 20, pl. 1, fig. 6.

Nuculana rhomboidea May Z182, pl. 2, fig. 41.

Ledella rhomboidea May

1921. *Nuculana rhomboidea* May, p. 12, pl. 4, fig. 9.

Cucullaea cainozoica Tenison Woods Z204, pl. 1, figs. 7-12.

Glycymeris (Glycymeris) cainozoica (Tenison Woods)

1877. *Cucullaea cainozoica* Tenison Woods, p. 111.

1886. *Pectunculus cainozoicus*; Tate, p. 136, pl. X, figs. 8a, 8b.

1888. *Pectunculus cainozoicus*; Johnston, pl. XXXI, figs. 13, 13a.

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1925. *Glycymeris cainozoica*; Chapman and Singleton, p. 20, pl. I, figs. 1a, 1b, 2a, 3, 4; pl. IV, figs. 1, 2, 3.
1965. *Glycymeris (Glycymeris) cainozoica*; Ludbrook, p. 87, pl. 1, figs. 28-34.
- The holotype designated by Chapman and Singleton is that figured on pl. 1, figs. 11, 12; the complete specimen of two valves, figs. 7-10, is the paratype.
- Crassatella oblonga* Tenison Woods Z174, pl. 1, figs. 1, 3.
- Eucrassatella oblonga** (Tenison Woods)
1876. *Crassatella oblonga* Tenison Woods, fig. XI, p. 25.
1876. *Crassatella aphrodina* Tenison Woods, fig. XII, p. 24.
1888. *Crassatella oblonga*; Johnston, pl. XXIX, figs. 1, 1a.
1888. *Crassatella aphrodina*; Johnston, pl. XXIX, fig. 2.
1896. *Crassatella oblonga*; Pritchard, p. 131.
1896. *Crassatella aphrodina*; Pritchard, p. 131.
1965. *Eucrassatella oblonga*; Darragh, p. 99, pl. 12, figs. 4, 9, 10.
- Crassatella aphrodina* Tenison Woods Z199, pl. 1, figs. 4, 5.
- Eucrassatella oblonga** (Tenison Woods)
- Darragh (p. 101), in supporting the synonymy of *Crassatella aphrodina* with *Crassatella oblonga*, recommends retention of the more familiar name *oblonga* although *aphrodina* has page priority. This would disregard the International Rules of Zoological Nomenclature. However, if one accepts that the figures of *oblonga* and *aphrodina* follow page 12, and precede the description, then *oblonga* has priority.
- Cardita gracilicostata* Tenison Woods Z177, pl. 2, figs. 46, 47.
- Glans gracilicostata** (Tenison Woods)
1877. *Cardita gracilicostata* Tenison Woods, p. 112.
1886. *Cardita gracilicostata*; Tate, p. 152, pl. II, figs. 6, 8.
1927. *Venericardia gracilicostata*; Chapman and Singleton, p. 118, pl. 11, figs. 20, 21.
- Chama lamellifera* Tenison Woods Z193, pl. 1, fig. 2.
- Chama lamellifera** Tenison Woods
1877. *Chama lamellifera* Tenison Woods, p. 114.
1887. *Chama lamellifera*; Tate, p. 149, pl. XIV, figs. 5a, 5b.
- Solecurtus legrandi* Tenison Woods Z176, pl. 2, fig. 45.
- Solecurtus legrandi** Tenison Woods
1876. *Solecurtus legrandi* Tenison Woods, fig. XIV, p. 25.
1887. *Solecurtus legrandi*; Tate, p. 181, pl. XVII, fig. 15.
1888. *Solecurtus legrandi*; Johnston, pl. XXXII, fig. 18.
- Lyonsia agnewi* Tenison Woods Z190, pl. 1, fig. 6.
- Panopea agnewi** (Tenison Woods)
1876. *Lyonsia agnewi* Tenison Woods, fig. XIII, p. 25.
1887. *Panopaea agnewi*; Tate, p. 179.
1888. *Panopaea agnewi*; Johnston, pl. XXIX, fig. 3.
- Thalotia alternata* Tenison Woods Z168, pl. 2, figs. 19, 20.
- Thalotia alternata** Tenison Woods
1877. *Thalotia alternata* Tenison Woods, p. 97.
- Gibbula aequisulcata* Tenison Woods Z175, pl. 2, fig. 25.
- Gibbula (Notogibbula) aequisulcata** Tenison Woods
1877. *Gibbula aequisulcata* Tenison Woods, p. 98.
1919. *Gibbula aequisulcata*; May, p. 70, pl. VIII, fig. 3.
- Gibbula crassigranosa* Tenison Woods B59, pl. 2, fig. 18.
- Gibbula (?) crassigranosa** Tenison Woods
1877. *Gibbula crassigranosa* Tenison Woods, p. 98.
1919. *Gibbula crassigranosa*; May, p. 70, pl. VIII, fig. 4.
- The generic location of this species is uncertain.
- Solarium (Torinia) gibbuloides* Tenison Woods unnumbered, pl. 2, fig. 17.
- Antisolarium gibbuloides** (Tenison Woods)
1877. *Solarium (Torinia) gibbuloides* Tenison Woods, p. 97.
1896. *Delphinula gibbuloides*; Pritchard, p. 122.
1919. *Solarium (Torinia) gibbuloides*; May, p. 70, pl. VIII, fig. 5.
- Astrarium (Calcar) ornatissimum* Tenison Woods Z194, pl. 2, fig. 16.
- Astrarium (Bellastraea) ornatissimum** Tenison Woods
1877. *Astrarium (Calcar) ornatissimum* Tenison Woods, p. 96.
- Imperator hudsonianum* Johnston Z167, pl. 2, figs. 7, 8.
- Astrarium hudsonianum** (Johnston)
1888. *Imperator hudsonianum* Johnston, pl. XXIX, figs. 12, 12a.
1896. *Astrarium (Imperator) johnstoni* Pritchard, p. 116.
- Turbo etheridgei* Tenison Woods Z202, pl. 2, fig. 15.
- Turbo (Euninella) tenisoni** Finlay
1877. *Turbo etheridgei* Tenison Woods, p. 98 (non Lycett, 1857).
1927. *Turbo tenisoni* Finlay, p. 493 (nom. nov.).

- Rissoina johnstoni* Tenison Woods Z180, pl. 2, fig. 32.
Rissoina johnstoni Tenison Woods
 1877. *Rissoina johnstoni* Tenison Woods, p. 101.
 The generic placing of this species is doubtful until it can be more closely examined.
- Haurakia crassicosta* May Z158, pl. 2, fig. 27.
Haurakia crassicosta May
 1921. *Haurakia crassicosta* May, p. 11, pl. IV, fig. 6.
- Potamides semicostatum* Tate B83, pl. 4, fig. 15.
Thericium (Chavanicerithium) pritchardi (Harris)
 1885. *Potamides semicostatum* Tate, p. 226. (non Deshayes)
 1897. *Cerithium pritchardi* Harris, p. 225, pl. VII, fig. 3 (nom. nov.)
 1957. *Thericium (Chavanicerithium) pritchardi*; Ludbrook, p. 30.
- Crepidula hainsworthii* Johnston Z165, pl. 2, figs. 35, 36, 37.
Crepidula (Zeacrypta) hainsworthii Johnston
 1885. *Crepidula hainsworthii* Johnston, p. 233, pl.
 1888. *Crepidula hainsworthii* Johnston, pl. XXXII, figs. 13, 13a, 13b.
 1893. *Crepidula hainsworthii*; Tate, p. 330.
 1957. *Crepidula (Zeacrypta) hainsworthii*; Ludbrook, p. 53, pl. 4, figs. 13, 14.
- Crepidula umbilicata* Johnston Z170, pl. 2, figs. 38, 39.
Calyptropsis umbilicata (Johnston)
 1885. *Crepidula umbilicata* Johnston, p. 323, pl.
 1888. *Crepidula umbilicata* Johnston, XXXII, figs. 10, 10a.
 1893. *Calyptropsis umbilicata*; Tate, p. 333.
- Triton minimum* Tenison Woods Z189, pl. 2, fig. 26.
Charonia (Austrosassia) tortirostris (Tate)
 1877. *Triton minimum* Tenison Woods, p. 107 (non Hutton).
 1888. *Triton tortirostris* Tate, p. 124, pl. V, fig. 7.
 1903. *Tritonium (Sassia) tortirostris*; Cossmann, p. 95.
 1931. *Austrosassia tortirostris*; Finlay, p. 10.
- Triton abbotti* Tenison Woods Z188, pl. 2, figs. 1, 2.
Charonia (Austrosassia) abbotti (Tenison Woods)
 1876. *Triton abbotti* Tenison Woods, fig. VIII, p. 24.
 1888. *Triton abbotti*; Johnston, pl. XXIX, fig. 13; pl. I, fig. 8.
 1888. *Triton abbotti*; Tate, p. 117.
 1903. *Tritonium (Austrotriton) abbotti*; Cossmann, p. 99.
 1931. *Austrosassia abbotti*; Finlay, p. 9.
- Cassis sufflatus* Tenison Woods Z201, pl. 2, figs. 9, 10.
Semicassis (Antephalium) sufflata (Tenison Woods)
 1877. *Cassis sufflatus* Tenison Woods, p. 93.
 1889. *Semicassis sufflata*; Tate, p. 165.
 1896. *Semicassis sufflata*; Pritchard, p. 106.
- Natica vixumbilicata* Tenison Woods Z179, pl. 2, figs. 11, 12.
Polinices (Conuber) vixumbilicata (Tenison Woods)
 1877. *Natica vixumbilicata* Tenison Woods, p. 111.
 1893. *Natica vixumbilicata*; Tate, p. 320, pl. X, fig. 9.
 Two specimens bear the number Z179, the smaller of which has the dimensions cited in the original description. This is here designated lectotype and figured (pl. 2, figs. 11, 12).
- Natica polita* Tenison Woods Z206, pl. 2, figs. 5, 6.
Friginatica polita (Tenison Woods)
 1876. *Natica polita* Tenison Woods, fig. IV, p. 23.
 1893. *Natica polita*; Tate, p. 325.
- Natica wintlei* Tenison Woods Z197, pl. 2, figs. 13, 14.
Friginatica wintlei (Tenison Woods)
 1876. *Natica wintlei* Tenison Woods, fig. III, p. 23.
 1888. *Natica wintlei*; Johnston, pl. XXIX, fig. 10.
 1893. *Natica wintlei*; Tate, p. 322.
- Voluta pellita* Johnston Z156, pl. 4, figs. 9, 10.
Ericusa (Mesericusa) pellita (Johnston)
 1880. *Voluta pellita* Johnston, p. 36.
 1888. *Voluta pellita* Johnston, pl. XXX, fig. 2.
 1896. *Voluta pellita*; Pritchard, p. 97.
 1949. *Ericusa pellita*; Cotton, p. 186.
- Voluta lirata* Johnston Z185, pl. 3, figs. 5, 7.
Notopeplum saginatum Finlay
 1880. *Voluta lirata* Johnston, p. 37 (non Brocchi, nec Sowerby).
 1927. *Notopeplum lirata*; Finlay, p. 514.
 1930. *Notopeplum saginatum* Finlay, p. 45 (non *Voluta lirata* Tate, 1889, p. 130, pl. II, fig. 4) (non *Voluta (Aulica) lirata* Harris, 1897, p. 103, pl. IV, fig. 12).
 1949. *Notopeplum saginatum*; Cotton, p. 191.
 1949. *Nannamoria lirata*; Cotton, p. 192.
- Voluta mortoni* Tate Z208, pl. 3, figs. 6, 8.
Pterospira mortoni (Tate)
 1889. *Voluta mortoni* Tate, p. 124, pl. IX, fig. 1.
 1897. *Voluta (Pterospira) mortoni*; Harris, p. 100.
 1949. *Pterospira mortoni*; Cotton, p. 187, pl. XV, fig.
- Voluta stephensi* Johnston Z183, pl. 3, figs. 3, 4.
Alcithoe (Cottonia) stephensi (Johnston)
 1880. *Voluta stephensi* Johnston, p. 35.
 1888. *Voluta stephensi* Johnston, pl. XXX, fig. 1.

1889. *Voluta stephensi*; Tate, p. 122.
 1896. *Voluta stephensi*; Pritchard, p. 94.
- Voluta tateana* Johnston Z187, pl. 4, figs. 1, 2.
Notovoluta tateana (Johnston)
 1880. *Voluta tateana* Johnston, p. 37.
 1888. *Voluta tateana* Johnston, pl. XXX, figs. 3, 3a.
 1889. *Voluta tateana*; Tate, p. 132, pl. II, fig. 5.
 1949. *Notovoluta tateana*; Cotton, p. 194, pl. XIV, fig.
- Voluta stolidi* Johnston Z186, pl. 3, figs. 9, 10.
Parameria stolidi (Johnston)
 1880. *Voluta stolidi* Johnston, p. 36.
 1888. *Voluta stolidi* Johnston, pl. XXX, figs. 4, 4a.
 1896. *Voluta stolidi* var. *stolidi*; Pritchard, p. 94.
 1949. *Cymbiola stolidi*; Cotton, p. 189.
- Voluta weldii* Tenison Woods Z191, pl. 3, figs. 1, 2.
Paramoria weldi (Tenison Woods)
 1876. *Voluta weldii* Tenison Woods, fig. II, p. 24.
 1888. *Voluta weldii*; Johnston, pl. XXX, fig. 6b (not figs. 6, 6a, 7).
 1889. *Voluta weldii*; Tate, p. 134.
 1896. *Voluta weldii*; Pritchard, p. 93.
 1897. *Voluta (Aulica) weldi*; Harris, p. 102.
 1949. *Cymbiola weldii*; Cotton, p. 189.
- Marginella atkinsoni* May Z159, pl. 2, fig. 30.
Marginella (Eratoidea) atkinsoni May
 1921. *Marginella atkinsoni* May, p. 9, pl. 4, fig. 1.
 1949. *Marginella atkinsoni* Cotton, p. 217, pl. XVII, fig.
- Marginella corpulenta* May Z160, pl. 2, fig. 28.
Marginella (Eratoidea) corpulenta May
 1921. *Marginella corpulenta* May, p. 9, pl. IV, fig. 2.
 1949. *Marginella corpulenta*; Cotton, p. 217, pl. XVII, fig.
 The holotype has been broken.
- Marginella subquiquidens* May Z161, pl. 2, fig. 29.
Marginella (Eratoidea) subquiquidens May
 1921. *Marginella subquiquidens* May, p. 10, pl. IV, fig. 3.
 1949. *Marginella subquiquidens*; Cotton, p. 218, pl. XVII, fig.
- Marginella altispira* May Z162, pl. 2, fig. 31.
Marginella (Dentimargo) altispira May
 1921. *Marginella altispira* May, p. 10, pl. IV, fig. 5.
 1949. *Marginella altispira*; Cotton, p. 219, pl. XVII, fig.
- Fusus johnstoni* Tenison Woods Z173, pl. 4, figs. 5, 6.
Latirus (Brocchitas) johnstoni (Tenison Woods)
 1877. *Fusus johnstoni* Tenison Woods, p. 94.
 1888. *Fusus johnstoni*; Johnston, pl. XXIX, fig. 9.
 1888. *Fusus johnstoni*; Tate, p. 136, pl. XII, figs. 4a, 4b.
- Fusus transenna* Tenison Woods Z172, pl. 2, figs. 33, 34.
Fusinus (Microcolus) transenna (Tenison Woods)
 1877. *Fusus transenna* Tenison Woods, p. 94.
 1888. *Peristernia transenna*; Tate, p. 157, pl. XI, fig. 10.
- Cominella lyraecostata* Tenison Woods Z203, pl. 2, figs. 23, 24.
Phos lyraecostatus (Tenison Woods)
 1877. *Cominella lyraecostata* Tenison Woods, p. 108.
 1888. *Phos lyraecostatus*; Tate, p. 167, pl. XI, fig. 12.
- Cominella cancellata* Tenison Woods Z192, pl. 2, figs. 21, 22.
Belophos woodsi (Tate)
 1877. *Cominella cancellata* Tenison Woods, p. 107.
 1888. *Bela woodsii* Tate, p. 147, 173, pl. IV, fig. 3.
 1901. *Belophos woodsi*; Cossman, p. 163.
 1944. *Belophos woodsi*; Powell, p. 25.
 The writer has not so far confirmed the homonymy of *C. cancellata*.
- Typhis McCoyi* Tenison Woods Z196, pl. 2, figs. 3, 4.
Typhis (Typhina) maccoyi Tenison Woods
 1876. *Typhis McCoyi* Tenison Woods, fig. V, p. 22.
 1888. *Typhis McCoyi*; Johnston, pl. XXIX, fig. 11.
 1888. *Typhis McCoyii*; Tate, p. 91.
 1903. *Typhis (Typhina) M'Coyi*; Cossmann, p. 58, pl. II, fig. 16.
 1961. *Typhis (Typhis) maccoyi*; Vella, p. 383, pl. 47, fig. 25, text fig. 4 (10).
 1964. *Typhis (Typhina) maccoyi*; Keen and Campbell, p. 48, pl. 8, fig. 8.
- Terebra simplex* Tenison Woods B48, pl. 4, fig. 16.
Hastula (Nototerebra) tenisoni (Finlay)
 1876. *Terebra simplex* Tenison Woods, fig. I, p. 21 (non Conrad, nec Carpenter).
 1889. *Terebra simplex*; Tate, p. 162.
 1927. *Terebra tenisoni* Finlay, p. 520 (nom. nov.)
 1958. *Hastula (Nototerebra) tenisoni*; Ludbrook, p. 100, pl. 6, fig. 9.
- Terebra additoides* Tenison Woods, Z200, pl. 2, fig. 44.
Strioterebra (Pervicacia) additoides (Tenison Woods)
 1877. *Terebra additoides* Tenison Woods, p. 95.
 1889. *Terebra additoides*; Tate, p. 163.
- Turris conspicua* May Z157, pl. 4, figs. 13, 14.
Zemacies conspicua (May)
 1921. *Turris conspicua* May, p. 11, pl. IV, fig. 7.
- Pleurotoma paracantha* Tenison Woods Z205, pl. 4, figs. 3, 4.
Optoturris paracantha (Tenison Woods)
 1877. *Pleurotoma paracantha* Tenison Woods, p. 105.
 1898. *Bathytoma paracantha*; Tate, p. 398.
 1944. *Optoturris paracanthus*; Powell, p. 12.
 1964. *Optoturris paracantha*; Powell, p. 296.

Turris altispira May B772, pl. 4, figs. 7, 8.

Apiotoma altispira (May)

1921. *Turris altispira* May, p. 12, pl. IV, fig. 5.

Daphnella gracillima Tenison Woods Z207, pl. 4, figs. 11, 12.

Teleochilus gracillimus (Tenison Woods)

1877. *Daphnella gracillima* Tenison Woods, p. 106.

1944. *Teleochilus gracillimus*; Powell, p. 64.

Turbonilla liraecostata Tenison Woods Z210, pl. 2, fig. 42.

Turbonilla (*Chemnitzia*) *liraecostata* Tenison Woods

1877. *Turbonilla liraecostata* Tenison Woods, p. 101.

Actaeon scrobiculatus Tenison Woods Z211, pl. 2, fig. 43.

Acteon scrobiculatus Tenison Woods

1877. *Actaeon scrobiculatus* Tenison Woods, p. 102.

1897. *Acteon scrobiculatus*; Cossmann, p. 1, pl. I, figs. 1-3.

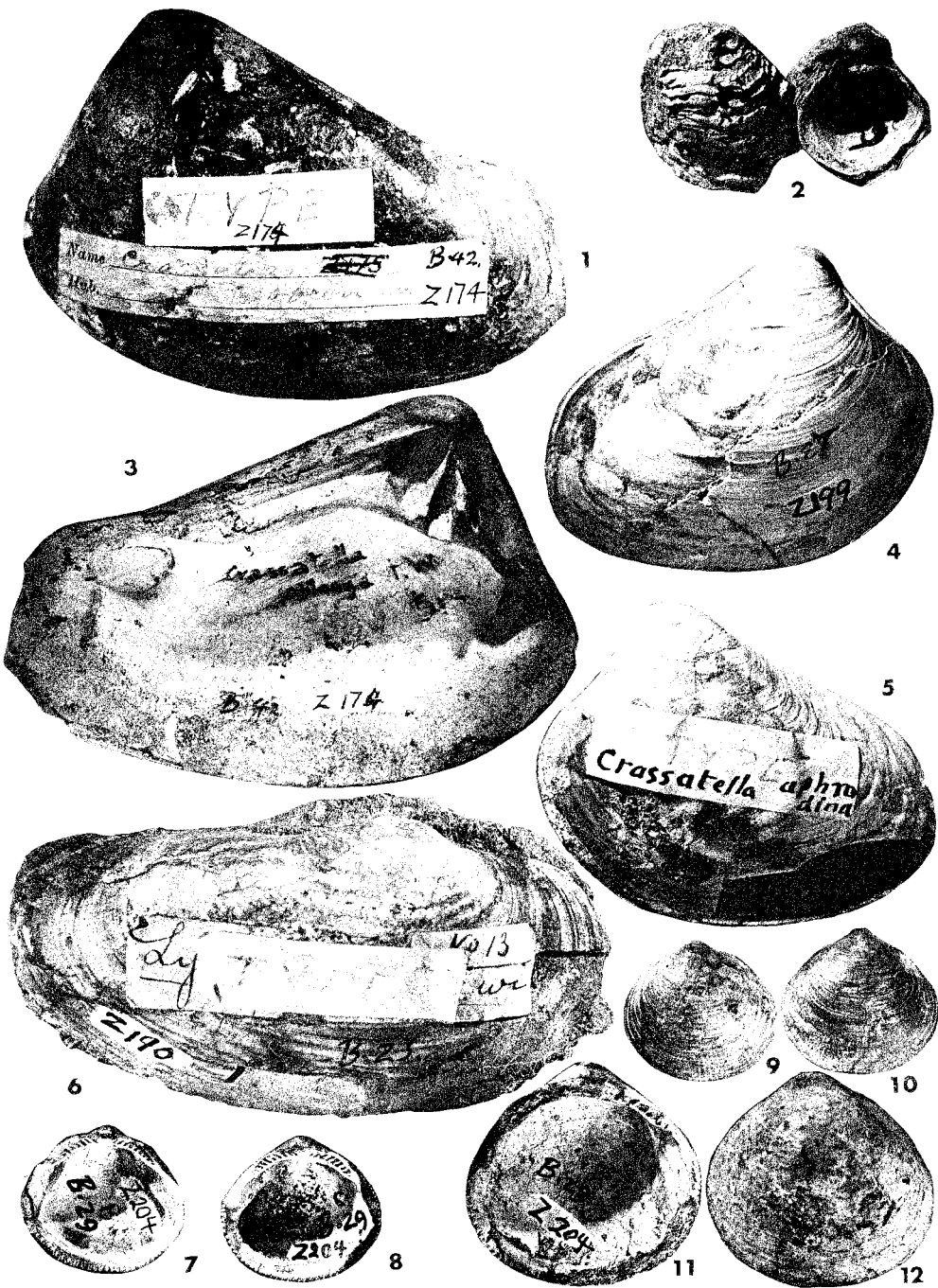
1958. *Acteon scrobiculatus*; Ludbrook, p. 101, pl. 6, fig. 11.

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NOTE.

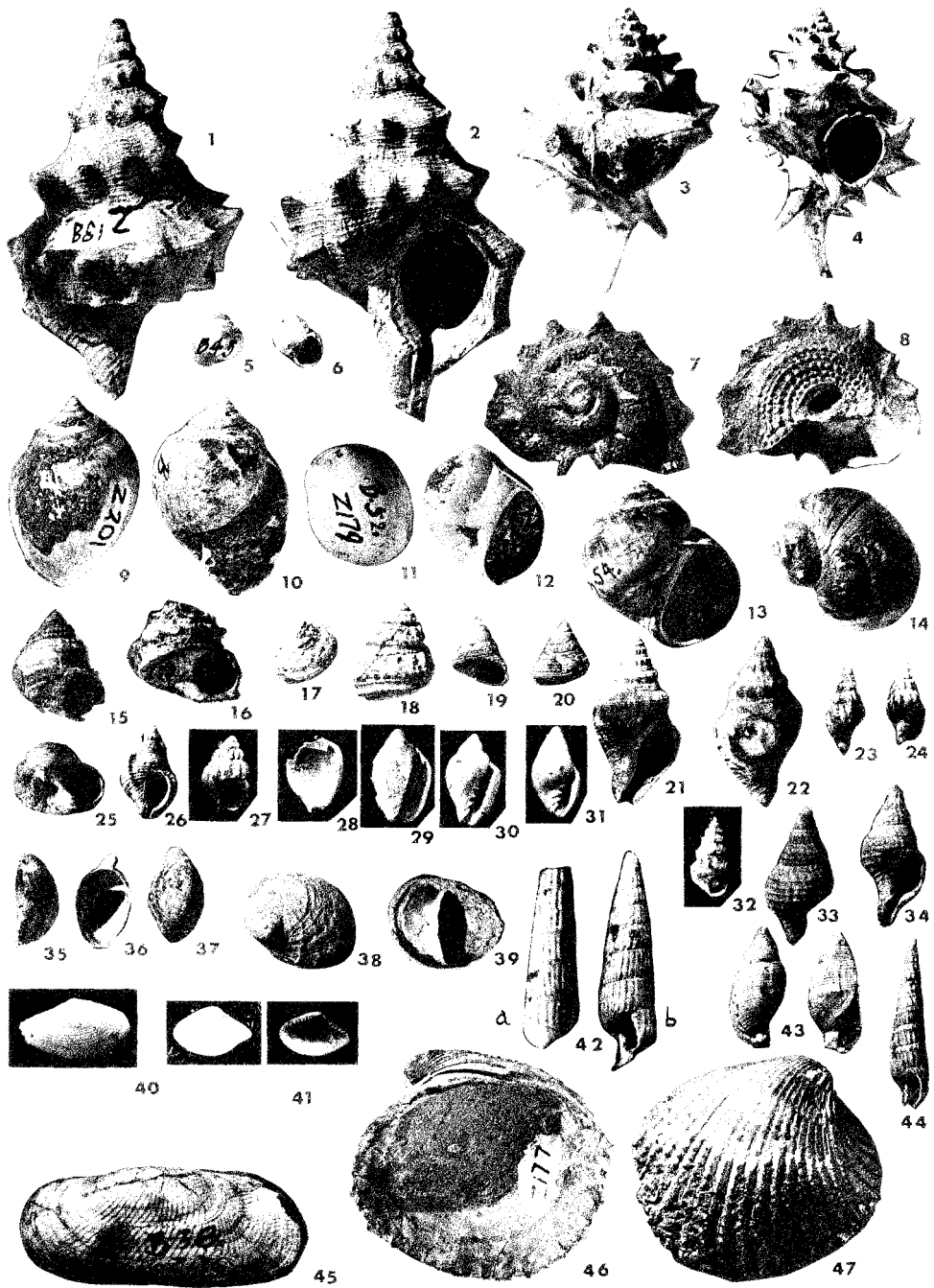
Since the paper was submitted for publication, Mr. F. L. Sutherland of the Tasmanian Museum has found a shell labelled *Cominella tyraecostatus* T. Woods Plate II, Figure 12, which must be the holotype figured by Tate. The specimen figured herein, Plate 2, Figures 23 and 24, is therefore a paratype.



1, 3.—*Crassatella oblonga* Tenison Woods, Z174.
 2.—*Chama lamellifera* Tenison Woods, Z193.
 4, 5.—*Crassatella aphrodina* Tenison Woods, Z199.

6.—*Lyonsia agnewi* Tenison Woods, Z190.
 7, 8, 9, 10.—*Cucullaea calvozota* Tenison Woods, Z204, paratype.
 11, 12.—*Cucullaea calvozota* Tenison Woods, Z204, holotype.

PAPERS AND PROCEEDINGS OF THE ROYAL SOCIETY OF TASMANIA, VOLUME 101



1, 2.—*Triton abbotti* Tenison Woods, Z188.
 3, 4.—*Typhis maceyi* Tenison Woods, Z196.
 5, 6.—*Natica polita* Tenison Woods, Z206.
 7, 8.—*Imperator budsonianum* Johnston, Z167.
 9, 10.—*Cassisi sufflatus* Tenison Woods, Z201.
 11, 12.—*Natica visumbilicata* Tenison Woods, Z179.
 13, 14.—*Natica whitei* Tenison Woods, Z197.
 15.—*Turbo eiberidigi* Tenison Woods, Z202.
 16.—*Australium (Caltar) ornatisimum* Tenison Woods, Z194.
 17.—*Solarium (Torinia) gibbuloides* Tenison Woods, unnumbered.

18.—*Gibbula crassigranosa* Tenison Woods, B59.
 19, 20.—*Trochalia alternata* Tenison Woods, Z168.
 21, 22.—*Cominella cancellata* Tenison Woods, Z192.
 23, 24.—*Cominella lyraecostata* Tenison Woods, Z203 (paratype).
 25.—*Gibbula aequisulcata* Tenison Woods, Z175.
 26.—*Triton minimum* Tenison Woods, Z189. × 1.3.
 27.—*Haurakia crassicauda* May, Z158. × 3.
 28.—*Margarella carpulenta* May, Z160. × 2.5.
 29.—*Margarella subquiquidens* May, Z161. × 2.5.
 30.—*Margarella atkinsoni* May, Z159. × 2.5.
 31.—*Margarella altispira* May, Z162. × 3.

32.—*Rissoina johnstoni* Tenison Woods, Z180. × 5.
 33, 34.—*Fusus transenna* Tenison Woods, Z172.
 35, 36, 37.—*Crepidula bainsworthi* Johnston, Z165.
 38, 39.—*Crepidula umbilicata* Johnston, Z170.
 40.—*Leda crebretostata* Tenison Woods, Z178. × 3.
 41.—*Nuculana rhomboidea* May, Z182. × 5.
 42.—*Turbonilla lyraecostata* Tenison Woods, Z210. a, × 4; b, × 5.
 43.—*Actaeon scrobiculatus* Tenison Woods, Z211. × 1.5.
 44.—*Terebra additoides* Tenison Woods, Z200.
 45.—*Solecurus legrandi* Tenison Woods, Z176.
 46, 47.—*Cardita gracilicostata* Tenison Woods, Z177



1, 2.—*Voluta weldi* Tenison Woods, Z191.
 3, 4.—*Voluta stephensi* Tenison Woods, Z183
 5, 7.—*Voluta lirata* Johnston, Z185.

6, 8.—*Voluta mortoni* Tate, Z208.
 9, 10.—*Voluta stollida* Johnston, Z186.



1, 2.—*Voluta tateana* Johnston, Z187.
 3, 4.—*Pleurotoma paracantha* Tenison Woods, Z205.
 5, 6.—*Fusus johnstoni* Tenison Woods, Z173.
 7, 8.—*Turris altispira* May, B772.
 9, 10.—*Voluta pellita* Johnston, Z156.

11, 12.—*Daphnella gracillima* Tenison Woods, Z207.
 13, 14.—*Turris conspicua* May, Z157.
 15.—*Potamides semicostatum* Tate, B83.
 16.—*Terebra simplex* Tenison Woods, B48.