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ABSTRACT

A checklist was compiled of the Trochidae that have been reported from Australia and were found in the Australian Museum and Western Australian Museum collection; 316 species were recorded of these, 54 could not be identified, 38 names could not be matched with shells, 6 species were recognised as non Australian and 13 had not previously been reported from Australia.

INTRODUCTION

The Trochidae are a large and diverse family, occurring world-wide in shallow as well as deep water. Australian Trochidae are plentiful, but have received little attention so far; the family has never been reviewed, nor has a checklist of the Australian members of the family ever been published. Work on the Australian Trochidae includes the review of the family by Adams (1853) and parts of papers by Tate (1893) and Iredale (1924), but has, on the whole, been fragmented and has concentrated on the description of new species rather than on reviewing the family or parts thereof. Trochidae were also included in checklists of Australian shells eg. for Western Australia (Hedley, 1916), Queensland (Hedley, 1910), New South Wales (Iredale and McMichael, 1962), Tasmania (Kershaw, 1955) or South Australia (Cotton, 1959).

The aim of this paper is to compile a complete list of Trochidae that occur, or have been reported to occur, in Australia. This was done with the aid of the collections of the Australian Museum in Sydney and Western Australian Museum in Perth and available literature. The resulting preliminary checklist is a combination of names found in literature and species found in these collections. The reference for the original description is listed for all species; an attempt was made to also list a reference for a report of the species from Australia, if the species was described from elsewhere, as well as a reference containing a good quality illustration of the species or important subsequent references. It is obvious that this was not possible for all listed names. A number of unidentified species was also found. These are listed with a genus name and species number; this number refers to labels in the Australian Museum collection. The locality data for a typical specimen are also given. Short statements behind some of the species also indicate whether the species is new to Australia or was found not to be part of the Australian fauna despite earlier records, or when the identity of a species was uncertain or shells could not be matched with a description. Some statements are also made regarding the possible synonymy of names with others.

The higher taxonomy set out by Hickman and McLean (1990) was followed. Placement of species in genera was done according to available literature, mainly following Cotton (1959). It is understood that the latter classification is likely to be outdated, but a review of the family was not intended when this preliminary list was produced. However, a few changes to generic placement are made; this is also indicated in the list.

TAXONOMY

Family Trochidae Rafinesque, 1815

Subfamily Eucyclinae Koken, 1897

Tribe Chilodontini Wenz, 1938

Group *Euchelus* s.l.

Euchelus Philippi, 1847

(type species *Monodonta tricarinata* Lamarck, 1822)

1. *aspersus* Philippi, 1846. Zeit. f. Malak. 1846, p. 103 (Trochus). Western Australia; = *baccata* Menke, 1843 (non DeFrance, 1824). Moll. Nov. Holl., p. 14 (Monodonta); Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 55, f. 74.
2. *atratus* Gmelin, 1791. Syst. Nat. Ed. XIII, p. 3601, No. 53 (Trochus). Nicobaricus Is.; Hickman and McLean, 1991. Nat. Hist. Mus. LA Council, Science Series, No. 35, p. 80, 81. Animal, radula; = *canaliculatus* Lamarck, 1822. An. s. Vert. 9, p. 181, No. 20 (Monodonta). No type loc.; = *sulciferus* A. Adams, 1853. Proc. Zool Soc. Lond. 1851, p. 175 (Monodonta). Roebuck Bay, WA; = *denigratus* Chemnitz, 1859. Chenu Man. d. Conch. pt. I, p. 358, f. 2657 (*Euchelus*). No type loc.; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 43. Palm Is., Qld.
3. *rubrus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 176 (Monodonta). Type loc?; Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 479, Masthead Is, Qld.
4. cf. *horridus* Philippi, 1846. Conch. Cab. II, p. 172, t. 27, f. 12 (Trochus). Pacific Ocean; Pilsbry, 1889. Man. Conch XI, p. 433, pl. 37, f. 17; Beach below Crocodile Research Station, Maningrida, NT; New record for Australia.
5. *dampierensis* n. sp.

Vaceuchelus Iredale, 1929

(type species *Euchelus angulatus* Pease)

6. *ampullus* Tate, 1893. Trans. Roy. Soc. SA 17, p. 197, pl. 1, f. 5 (*Euchelus*). Cambridge Gulf, WA.
7. *clathratus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 175 (Monodonta). Guidalman, island of Bohol, rocky ground, 60 fms.; = *scrobiculatus* Souverbie, 1866. J. d. Conch. 1866, p. 140, t. 11, f. 11 (Trochus). Island of Art, New Caledonian Archipelago; = *angulatus* Pease, 1868. Am. J. Conch. v. 3, p. 282, pl. 23a, f. 27 (*Euchelus*); = *favosus*, Melvill and Standen, 1896. J. of Conch. VIII, p. 311 (*Euchelus*); ? = *foveolatus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 176 (Monodonta). Lord Hood's Is., on pearl oysters, 8-10 fms.
8. *mysticus* Pilsbry, 1889. Man. of Conch. 11, p. 444, f. 7 (*Euchelus*). Singapore; Odhner, 1917. Kungl. Svenska Vetensk. Handl. 92, No. 16, p. 44-5, pl. 2, f. 38-9, text fig. 8. 45 m N of Cape Jaubert, WA; No shells found.

Discussion: The illustration of this species by Odhner very clearly shows a specimen of *Hybochelus cancellatus* Krauss, 1848.

9. *roseolus* G & H. Nevill, 1869. J. Asiat. Soc. Bengal XLIV, p. 102 (Trochus). Ceylon; = *lamberti* Souverbie, 1875. J. de Conch. 1875, p. 37, pl. IV, f. 4 (Trochus). New Caledonia.
10. *profundior* May, 1915. Proc. Roy. Soc. Tas. 1915, p. 98, pl. VII, f. 39 (*Euchelus*). E. of Cape Pillar, Tasmania, 100 fms.

11. sp. 'Euchelus' sp. 7

only known from Eyrie Reef, W. of Lizard Is., N. Qld.

Herpetopoma Pilsbry, 1889

(type species *Euchelus scabriusculus* A. Adams & Angas, 1867)

12. *annectans* Tate, 1893. Trans. Roy. Soc. SA 17, p. 196 (*Euchelus*). Western Australia; Cotton, 1959. S. Aust. Moll., p. 187-8, f. 116.

Type: SAM D13395

13. *fenestrata* Tate, 1893. Trans. Roy. Soc. SA 17, p. 195, pl. 1, f. 2 (*Euchelus*). Western Australia; Cotton, 1946. SA Nat. Feb. 1946, p. 6-8. Reevesby Is., SA.

Type: SAM D13396

14. *pumilio* Tate, 1893. Trans. Roy. Soc. SA 17, p. 196, pl. 1, f. 3 (*Euchelus*). South Australia.

Type: SAM D13393

15. *scabriuscula* A. Adams & Angas, 1867. Proc. Zool. Soc. Lond. 1867, p. 215 (*Euchelus*). Port Jackson, NSW; Cotton, 1959. S. Aust. Moll., p. 184, f. 112; = *tasmanica* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 152 (*Euchelus*). Long Bay, Bruny Is.

Type: *tasmanica* TM E693

16. *vixumbilicata* Tate, 1893. Trans. Roy. Soc. SA 17, p. 196, pl. 1, f. 4 (*Euchelus*). South Australia.

Type: SAM D 13394

17. *Herpetopoma corallina* n.sp.

Location of the holotype: AMS

18. *Herpetopoma elevata* n.sp.

Location of holotype: AMS

19. sp. 'Euchelus' sp. 8

Only known from Broadhurst Reef, off Townsville, Qld.

'Euchelus' s.l.

20. *gemmatus* Gould, 1845. Proc. Bost. Soc. Nat. Hist. II, p. 27 (*Euchelus*). Hawaiian Islands; Kay, 1979. Hawaiian Marine Shells, p. 51, f. 13, 14E; New record for Australia.

21. *instrictus* Gould, 1849. Bost. Soc. Nat. Hist. Proc. v. 3, p. 107 (*Trochus*); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 33, pl. 8, f. 6.

Granata Cotton, 1957

(type species *Stomatella imbricata* Lamarck)

22. *imbricata* Lamarck, 1816. Ency. Meth. pl. 450, f. 2 (*Stomatella*). Western Australia; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 55, 57, f. 75; Hickman & McLean (1990), Nat. Hist. Mus. LA Council Science Series No. 35, p. 80, 81. Animal, radula.

23. *maculata* Quoy & Gaimard, 1834. Voy. Astrolabe Vol. III, pl. 66 (*Stomatella*); Sowerby, 1854. Thes. Conch. II, p. 843, pl. 175, f. 32-34; Pilsbry, 1890. Man. Conch. XII, p. 13, pl. 51, f. 17-19, pl. 52, f. 60-61. Island of Vanikoro; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 47, Darnley Is., Torres Straits; Short and Potter, 1987. Shells of Qld. and the Great Barrier Reef, p. 12, pl. 5, f. 11; Previously placed

in Stomatellinae.

24. *elegans* Gray, 1847. *Append. Voy. Fly II*, 1847, p. 359, pl. II, f. 1 (Stomatella). Raine's Island, N. Australia; Previously placed in Stomatellinae.

25. *sulcifera* Lamarck, 1822. *An. s. Vert. t. 6*, pt. 2, p. 210 (Stomatella). New Holland; Brazier, 1877. *Proc. Linn. Soc. NSW 2*, p. 46. Bet Island, Torres Straits; Habe, 1964. *Shells of W. Pacific*, p. 11, pl. 4, f. 16; Previously placed in Stomatellinae.

The above three names have been applied to the same Indo-Pacific species

Hybochelus Pilsbry, 1889

(type species *Stomatella cancellata* Krauss, 1848)

26. *cancellatus* Krauss, 1848. *Südafr. Moll.* p. 93, pl. 5, f. 26 (Stomatella); Smith, 1884. *Zool. Coll. Alert*, p. 76. Port Curtis, Prince of Wales Channel, 3 - 4 fms.; Habe, 1964. *Shells of W. Pacific*, p. 10, pl. 4, f. 15; Hickman & McLean, 1990. *Nat. Hist. Mus. LA Council, Science Series No. 35*, p. 80, 81. Animal, radula; ? = *fossulatus* Souverbie, 1875, *J. d. Conch. 1875*, p. 39, pl. VI, f. 5 (*Trochus* (*Euchelus*)). Isle of Art, New Caledonia.

Danilia Brusina, 1865

(type species *Monodonta tinei* Calcara, 1839)

27. *telebathia* Hedley, 1911. *Endeav. Sci. Res.*, p. 102, pl. XVIII, f. 16-17 (*Danilia*). 40 miles S. of Cape Wiles, SA, 100 fms.; May, 1923. *Illust. Index Tasm. Shells*, pl. XIX, f. 24.

Location of holotype: AMS

Turcica A. Adams, 1854

(type species *Turcica monilifera* A. Adams, 1854)

28. *maculata* Brazier, 1877. *Proc. Linn. Soc. NSW 2*, p. 44 (*Thalotia*). Cape York, Qld., sandy mud bottom, 11 fms.; Pilsbry, 1889. *Man. Conch. XI*, p. 417, pl. 67, f. 78; Cernohorsky, 1978. *Trop. Pac. Mar. Shells*, p. 34 - 35, pl. 9, f. 2; = *elisa* Gould, 1849. *Proc. Bost. Soc. Nat. Hist. 1849*, p. 92 (*Calliostoma* (*Perinnia*)). Port Molle, Qld.

29. *monilifera* A. Adams, 1854. *Proc. Zool. Soc. Lond. 1854*, p. 37, pl. XXVII, f. 1 (*Turcica*). Moreton Bay; No shells found - identity uncertain; probably not Australian.

30. *montrouzieri* Fischer, 1878. *J. d. Conch. XXVI*, p. 212 (*Tectaria*). Flinders Passage, Torres Straits; Fischer, 1879. *J. d. Conch. XXVII*, p. 31, pl. III, f. 6.

Location of the holotype: ZMA No reg.

31. sp. '*Turcica*' sp. 2

32. n.sp. cf. *cancellata* Schepman, 1908. *Siboga Exped.*, p. 69 - 70, pl. 6, f. 5 (*Calliostoma* (*Perinnia*)). Western Entrance, Samau Strait, 390 m., coarse coral sand with small stones; New record for Australia.

Discussion: Comparison with the type of *T. cancellata* in ZMA has led to the conclusion that the Australian form is a new species. *T. cancellata* differs in having a more rounded shell with ribs of equal strength and having vertical instead of oblique axial ribs.

Tribe Calliotropini Hickman and MacLean, 1990

(type species *Trochus ottoi* Philippi)

Calliotropis Seguenza, 1903

33. *glypta* Watson, 1886. Rep. Sci. Res. Challenger Zool. 15, p. 75, pl. 6, fig. 6 (*Trochus* (*Gibbula*)). off Sydney, NSW, 410 fms.; Hickman and McLean (1990). Nat. Hist. Mus. LA Council Science Series No. 35, p. 85, f. *C. radula*.

34. sp. '*Calliotropis*' sp. 1. 63-68 fms., NE of Cape Moreton, Qld.

35. sp. '*Calliotropis*' sp. 2. NE of Lady Musgrave Is., Qld. 23o38.8'S, 152o45.5'E, 365 m., Globigerina mud/siliceous sponge.

36. *acherontis* Marshall, 1979. New record for Australia. E. of Cape Three Points, NSW, 33o28-29'S, 151o52'E, 457-467 m.

37. sp. '*Calliotropis*' sp. 4. off Sydney, NSW, 33o31-33'S, 152o08-07'E, 904-917 m.

38. sp. '*Calliotropis*' sp. 5. off Sydney, NSW, 33o35-37'S, 152o05'E, 1143-1106 m.

39. sp. '*Calliotropis*' sp. 6. off Sydney, NSW, 33o35-37'S, 152o05'E, 1143-1106 m.

40. sp. '*Calliotropis*' sp. 8. ca. 170 ml. NW of Port Hedland, WA, 19o13'S, 116o06'E, 271 m.

41. sp. '*Calliotropis*' sp. 9. Approx. 100 ml. N. of Croker Is., NT, 9o30'S, 132o34'E, 124 m.

Subfamily Margaritinae Stoliczka, 1878

Tribe Margaritini Stoliczka, 1878

Margarites Gray, 1827

(type species *Turbo helicina* Fabricius)

42. *aspecta* A. Adams, 1855. Proc. Zool. Soc. Lond, 1855, p. 40 (*Margarita*). Australia; Pilsbry, 1889. Man. Conch. XI, p. 471, p. 61, f. 37; No shells found - identity uncertain.

Remarks: The figure shown by Pilsbry (1889) shows a shell from behind, that cannot easily be identified, but looks somewhat like *Austrocochlea constricta*. Adams (1853) did not figure his specimen. No shells were found that fitted the description or were labelled as *M. aspecta*. The name must be removed from the Australian list until the identity of this species can be determined.

Subfamily Trochinae Rafinesque, 1815

Tribe Trochini Rafinesque, 1815

Clanculus Montfort, 1810

(type species *Trochus pharaonius* L.)

43. *albinus* A. Adams, 1853. Proc. Zool. Soc. 1851, p. 82 (*Clanculus*). Type loc?; Hedley, 1908. Proc. Linn. Soc. NSW 33, p. 479, pl. VIII, f. 12. Fitzroy Is., Qld.; No shells found.

44. *albugo* Watson, 1885. J. Linn. Soc. Zool. 15, 92-94 (*Trochus* (*Solariella*)). Port Jackson, NSW; Thornley, 1951. Proc. Zool. Soc. NSW 1949-50, p. 46, f.5. North Coast, New South Wales; No shells found - identity uncertain, photo of type specimen in AM shows possibly a juvenile *Cantharidella*.
45. *aloyisii* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 23 (*Clanculus*). Tasmania; Pilsbry, 1889. Man. Conch. XI, p. 59, pl. 14, f. 20 - 23.
46. *atropurpureus* Gould, 1849. Boston Soc. Nat. Hist. Proc. 1849, p. 107 (*Trochus* (*Monodonta*)); = *samoensis* Hombron & Jacquard, 1877. Coq. Viv., p. 239, pl. 82, f. 2 (*Trochus*).
47. *bicarinatus* Angas, 1880. Proc. Zool. Soc. Lond. 1880, p. 419, pl. XL, f. 14 (*Clanculus*). Darwin, NT.
48. *brunneus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 161 (*Clanculus*). Sydney, NSW; Allen, 1950. Aust. Shells, p. 12, f. 19; = *omalomphalus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 162 (*Clanculus*); = *zebrides* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 173 (*Clanculus*). Type loc?
49. *clanguloides* Wood, 1828. Ind. Test. Suppl., pl. 6, fig. 39 (*Trochus*). Type loc?; Hinton, 1982. Guide to Aust. Shells, pl. 3, f. 20 (not 20a).
50. *clangulus* Wood, 1828. Ind. Test. Suppl., p. 17, pl. 5, f. 31 (*Trochus*). Sydney, NSW; Wilson and Gillett, 1985. Field guide to Aust. Shells, p. 40, pl. 5, f. 10.
51. *comarilis* Hedley, 1912. Rec. Aust. Mus. 8, p. 136, pl. XL, f. 9-11 (*Clanculus*). Palm Is., Qld.
52. *consobrinus* Tate, 1893. Trans. Roy. Soc. SA 17, p. 193, pl. 1, f. 1, 1a (*Clanculus*). South Australia; Wells and Bryce, 1985. Seashells of WA, p. 42, f. 71.
53. *denticulatus* Gray, 1827. Append. King Intertrop. Aust. II, 1826, p. 479 (*Monodonta*). King Georges Sound, WA; = *lupinus* Menke, 1843. Moll. Nov. Holl., p. 15 (*Monodonta*). Western Coast.
54. *dunkeri* Koch in Philippi, 1843. Abbild. Beschr. I, 1843, p. 67, pl. 2, fig. 5 (*Trochus*). Type loc?; Cotton, 1959. S. Aust. Moll., p. 134 - 135, f. 69; = *rubens* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 178 (*Clanculus*). Western Australia.
55. *euchelioides* Tate, 1893. Trans. Roy. Soc. SA 17, p. 193, pl. 1, f. 8 (*Clanculus*). South Australia; Cotton, 1959. S. Aust. Moll., p. 136 - 137, f. 71; = *gatliffi* Tomlin, 1924. Proc. Mal. Soc. Lond. XVI, pt. I, p. 24 (*Clanculus*).
56. *flagellatus* Philippi, 1848. Zeit. F. Malak. 1848, p. 105 (*Trochus*). Type loc?; Macpherson and Gabriel, 1962. Mar. Moll. Vict., 71, f. 100.
57. *floridus* Philippi, 1848. Zeit. f. Malak. 1848, p. 156 (*Trochus*). Western Australia; McMichael, 1960. Shells of the Aust. Sea Shore, p. 54; = *gibbosus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 162 (*Clanculus*). New Ireland.
58. *granosus* Brazier, 1877. Proc. Linn. Soc. NSW 1877, p. 43 (*Clanculus*). Barnard Is. No. III, Qld.; Hedley, 1901. Rec. Aust. Mus. 4, p. 128, pl. XVII, f. 30 (*Euchelus*). Katow.
59. *granti* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 488, pl. XIX, f. 45-6 (*Clanculus*). Masthead Is., Qld.
60. *johnstoni* Hedley, 1917. Proc. Roy. Soc. Qld 29, p. 55-56, f. 11-12 (*Clanculus*). Caloundra, Qld.
61. *leucomphalus* Verco, 1905. Trans. Roy. Soc. SA 29, p. 168-9, f. XXXI, f. 9-11 (*Clanculus*). Backstairs

Passage, Gulf St. Vincent, 20-23 fms.

62. *limbatus* Quoy and Gaimard, 1834. *Voy. Astrolabe Zool.* III, p. 245, pl. 63 (Trochus). Western Port; Macpherson and Gabriel, 1962. *Mar. Moll. Vict.*, p. 73, f. 101; = *variegatus* A. Adams, 1853. *Proc. Zool. Soc. Lond.* 1851, p. 160 (Clanculus). Island of Siguilor, under stones; = *morum* Philippi, 1848. *Zeit. f. Malak.* 1848, p. 109 (Trochus). Type loc?; = *maculosus* A. Adams, 1853. *Proc. Zool. Soc. Lond.* 1851, p. 160 (Clanculus). Type loc?
63. *margaritarius* Philippi, 1846. *Zeit. f. Malak* 1846, p. 100 (Trochus). Type loc?; Abbott and Dance, 1986, *Compendium of Seashells*, p. 43.
64. *maugeri* Wood, 1828. *Ind. Test. Suppl.*, p. 17, pl. 5, f. 27 (Trochus). Australia; Macpherson and Gabriel, 1962. *Mar. Moll. Vict.*, p. 71, f. 99.
65. *maxillatus* Menke, 1843. *Moll. Nov. Holl.* 1843, p. 14 (Monodonta). Western Coast; Wells and Bryce, 1985. *Seashells of WA*, p. 42, f. 68; = *anus* Philippi, 1848. *Zeit. f. Malak.* 1848, p. 228, t. 39, f. 7 (Trochus). Type loc?
66. *nodulosus* A. Adams, 1854. *Proc. Zool. Soc. Lond.* 1854, p. 39, t. 27, f. 2 (Clanculus). Van Diemen's Land; No shells found - identity uncertain.
67. *ochroleucus* Philippi, 1853. *Conch. Cab. II*, pt. II, p. 243, pl. 36, fig. 16 (Trochus). Type loc?; May, 1923. *Ill. Index Tasm. Shells*, pl. XVIII, f. 12.
68. *personatus* Philippi, 1848. *Conch. Cab. II*, pt. III, p. 78, No. 78, pl. 14, f. 7 (Trochus). Type loc?; Wells and Bryce, 1985. *Seashells of WA*, p. 42, f. 73.
69. *philippi* Koch, 1843. *Abb. Besch. I*, pl. 2, f. 7 (Trochus). Type loc?; = *yatesi* Crosse, 1863. *J. d. Conch.* 1863, p. 379, pl. 13, f. 1 (Clanculus). South Australia; Cotton, 1959. *S. Aust. Moll.*, p. 131 - 132, f. 67; = *philomenae* Tenison-Woods, 1876. *Proc. Roy Soc. Tas.* 1875, p. 23 (Clanculus). Tasmania; = *raphaeli* Tenison-Woods, 1877. *Proc. Roy Soc. Tas.* 1876, p. 144 (Clanculus). Georges Bay, Long Bay, Tas.; = *purpuratus* Pilsbry, 1889. *Man. Conch. XI*, p. 61, pl. 14, f. 33 (Clanculus); = *conspersus* A. Adams, 1853. *Proc. Zool. Soc. Lond.* 1851, p. 163 (Clanculus). Type loc?; Hedley, 1913. *Proc. Linn. Soc. NSW* 38, p. 278, pl. XVII, f. 46.
70. *plebejus* Philippi, 1851. *Zeit. f. Malak.* 1851, p. 41 (Trochus). Western Australia; Cotton, 1959. *S. Aust. Moll.*, p. 138 - 139, f. 73; Tenison-Woods, 1877. *Proc. Roy. Soc. Tas.* 1876, p. 144; Iredale, 1924. *Proc. Linn. Soc. NSW*, p. 224-5; = *angeli* Tenison-Woods, 1877. *Proc. Roy. Soc. Tas.* 1876, p. 16 (Clanculus). Long Bay, Tasmania, 10 fms.; = *nodoliratus* A. Adams, 1853. *Proc. Zool. Soc. Lond.* 1851, p. 163 (Clanculus). Type loc?; = *multicarinatus* Tenison-Woods, 1877. *Proc. Roy. Soc. Tas.* 1876, p. 142 (Gibbula). North-west Tasmania; = *dominicanus* Tenison-Woods, 1877. *Proc. Roy. Soc. Tas.* 1876, p. 16 (Clanculus). South Tasmania; Hickman and McLean, 1990. *Nat. Hist. Mus. LA Council Science Series No. 35*, p. 96, f. D. animal.
71. *ringens* Menke, 1843. *Moll. Nov. Holl.*, p. 14 (Monodonta). Western Coast; Wells and Bryce, 1985. *Seashells of WA*, p. 42, f. 70.
72. *septenarius* Melvill and Standen, 1899. *J. Linn. Soc. Lond* XXVII, p. 176, pl. 10, f. 9 (Calliostoma (Eutrochus)). Albany Passage, Torres Straits, 10 fms.; Previously placed in Calliostomatinae.
73. *stigmatarius* A. Adams, 1853. *Proc. Zool. Soc. Lond.* 1851, p. 161 (Clanculus). Island of Corgidor, Bay of Manila, coarse sand, 10 fms.; Short and Potter, 1987. *Shells of Qld. and the Great Barrier Reef*, p. 10, pl. 5, f. 10 (as *C. clanguloides*).

74. *undatoides* Tenison-Woods, 1879. Proc. Linn. Soc. NSW 4, p. 22, pl. 4, f. 7 (*Clanculus*). Port Jackson, NSW.
75. *undatus undatus* Lamarck, 1816. Ency. Meth., p. 10, pl. 447, f. 3 (*Trochus*). South Australia; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 71, f. 98; = *smithi* Wood, 1828. Index Test. Suppl. p. 17, pl. 5, f. 204 (*Trochus*). Type loc?
76. *undatus occiduus* Cotton and Godfrey, 1934. SA Nat. 15, p. 80 (*Macroclanculus*). Esperance; Wells and Bryce, 1985. Seashells of WA, p. 42, f. 69.
77. *unedo* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 161 (*Clanculus*). Type loc?; Pilsbry, 1889. Man. Conch. XI, p. 70, pl. 10, f. 17, 18. Possibly synonymous with *C. margaritarius*.
78. *weedingi* Cotton, 1938. Proc. Roy. Soc. Vic. 51, p. 168, pl. VII, f. 2 (*Clanculus (Isoclanculus)*). Reevesby Is., SA. Possibly synonymous with *C. dunkeri*.
79. sp. '*Clanculus*' sp. 1. Delambre Is., Dampier Archipelago, WA.

Trochus L., 1758

(type species *Trochus maculatus* L.)

80. *cariniferus* Reeve, 1842. Syst. Conch. II, pl. 118, f. 8 (*Trochus*). Type loc?; A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 152. Signet Bay, WA; Pilsbry, 1889. Man. Conch. XI, p. 41, pl. 5, f. 38 - 42; = *baccatus* Sowerby, 1889 (non Menke, 1843). J. Linn. Soc. XX, p. 397, pl. 25, f. 8-9 (*Trochus*). Mauritius; No shells found - probably not Australian.
81. *fastigiatus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 150 (*Trochus*). Type loc?; Pilsbry, 1889. Man. Conch. XI, p. 31, pl. 43, f. 60; Iredale, 1929. Mem. Qld. Mus. 9, p. 271. Michaelmas Cay, Qld.
82. *hanleyanus* Reeve, 1842. Proc. Zool. Soc. Lond. 1842, p. 184 (*Trochus*). Australia; Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 32, pl. 6, f. 6; = *lineatus* Lamarck, 1822 (non Da Costa, 1778). An. s. Vert. VII, p. 23 (*Trochus*). New Holland Seas.
83. *histrio* Reeve, 1848. Proc. Zool. Soc. Lond. 1848, p. 52 (*Trochus*); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 32, pl. 8, f. 1; = *calcaratus* Souverbie, 1875. J. d. Conch. v. 23, p. 41, pl. 4, f. 7-7a (*Trochus*). Type loc?; = *sacellum Philippi*, 1851. Conch. Cab. II, pt. II, p. 309, t. 44, f. 13 (*Trochus*). Type loc?; = *sacellum rota Dunker*, 1882. Mal. Blätt. VI, p. 238 (*Trochus*); = *rota Lischke*, 1869. Jap. Meeres.-Conchyl., p. 94, t. 6, f. 20 - 21 (*Trochus*).
84. *maculatus* L., 1758. Syst. Nat., X, p. 756 (*Trochus*). Type loc?; Iredale, 1929. Mem. Qld. Mus. 9, p. 271. Michaelmas Cay, Qld; Wilson and Gillett, 1971. A field guide to Aust. Shells, p. 26, pl. 9, f. 11, 11a.
85. *noduliferus* Lamarck, 1822. An. s. Vert. VII, p. 18 (*Trochus*). Type loc?; Pilsbry, 1889. Man. Conch. XI, p. 22, pl. 3, f. 18, 19; Shirley, 1911. Proc. Roy. Soc. Qld. XXIII, p. 96. Caloundra, Qld.; No shells found.
86. *incrassatus* Lamarck, 1822 (non Reeve, 1861). An. s. Vert. VII, p. 20 (*Trochus*). Type loc?; = *obesus* Reeve, 1862. Conch. Icon. XIII, pl. XIII, f. 75 (*Trochus*). Type loc?; = *tubiferus* Chenu, 1859. Man. Conch. I, p. 357, f. 2641 (*Pyramidea*). Type loc?; Pilsbry, 1889. Man. of Conch. XI, p. 31, pl. 6, f. 62-3.
87. *tentorius* Reeve, 1862. Conch. Icon. XIII, pl. III, sp. 14 (*Trochus*). Philippines; Chemnitz, 1791 (non binomial). Conch. Cab. V, p. 90, pl. 169, f. 1628; New record for Australia. Barrow Is., WA.

Tectus Montfort, 1810
(type species *Trochus mauritianus* Gmelin)

88. *architectonicus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 152 (Pyramis). Signet Bay, North Australia; Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 32, pl. 8, f. 2.

89. *fenestratus* Gmelin, 1791. Syst. Nat., p. 3582 (Trochus). Type loc?; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 42. Darnley Is., Torres Straits; Wells and Bryce, 1985. Seashells of WA, p. 40, f. 53.

90. *niloticus* Linnaeus, 1767. Syst. Nat., Ed. 12, p. 1227 (Trochus). East Indies; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 42. Darnley Is., Torres Straits; Coleman, 1981. What shell is that?, p. 171, p. 494; = *montebelloensis* Preston, 1914. Proc. Mal. Soc. Lond. 11, p. 16-7 (Trochus). Montebello Islands, WA; = *zebra* Perry, 1811. Arcana 1811, pl. LXII (Trochus). Type loc?; = *pagodus* Tenison-Woods, 1879. Proc. Linn. Soc. NSW 1879, p. 110 (Astraliium). Moreton Bay.

91. *pyramis* Born, 1778. Test., p. 333 (Trochus). Type loc?; = *caerulescens* Lamarck, 1822. An. s. Vert. VII, p. 18 (Trochus). New Holland; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 42. Darnley Is., Torres Straits; Wells and Bryce, 1985. Seashells of WA, p. 40, f. 55; = *obeliscus* Gmelin, 1791. Syst. Nat. Ed. 13, p. 3579 (Trochus). India; Hickman and McLean (1990). Nat. Hist. Mus. LA Council Science Series No. 35, p. 96, f. G. animal; id., p. 98, f. A,B. radula.

92. *triserialis* Lamarck, 1822. An. s. Vert. VII, p. 22 (Trochus). Type loc?; Pilsbry, 1889. Man. Conch. XI, p. 21, pl. 4, f. 30, 31; Springsteen and Leobrera, 1986. Shells of the Philippines, p. 32, pl. 4, f. 7.

Tectus (*Rochia*) Gray, 1827
(type species *Trochus acutangulus* Chemnitz)

93. *conus* Gmelin, 1791. Syst. Nat. Ed. 13, p. 3569, no. 77 (Trochus). India; Pilsbry, 1889. Man. Conch. XI, p. 18, pl. 2, f. 10. N. Australia; Springsteen and Leobrera, 1986. Shells of the Philippines, p. 32, pl. 4, f. 2; = *acutangulus* Chemnitz, 1781 (non binominal). Conch. Cab. V, p. 81 (Trochus). Botany Bay; = *apiaria* Perry, 1810. Arcana 1810, pl. II, f. 4 (Trochus). Type loc?

Tribe Gibbulini Stoliczka, 1868

A key to the Australian genera of Monodonta s.l.

Austrocochlea Fischer, 1885
(type species *Monodonta constricta* Lamarck)

94. *concamerata* Wood, 1828. Ind. Test. Suppl. pl. 6, f. 35 (Trochus). Western Australia; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 69, f. 95; = *aethiops* Philippi, 1845. Abb. Besch. p. 40 (Trochus). Type loc?; = *striolata* Quoy & Gaimard, 1834. Voy. Astrolabe Zool. III, p. 253, pl. 63 (Trochus). Sydney, NSW; = *fuliginens* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 180 (Labio). Type loc?; = *reticularis* Forbes, 1852. Voy. Rattlesnake II, p. 364 (Trochus). Port Dalrymple, on reefs; = *viridus* Wood, 1828 (non Gmelin, 1791). Ind. Test. Suppl. pl. 6, f. 36 (Trochus). type loc?; = *perforatus novazelandiae* Chemnitz, 1781 (non binominal). Syst. Conch. Cab. 5, p. 230, pl. 185, f. 1850-1 (Pica). Type loc?

95. *constricta* Lamarck, 1822. An. s. Vert. VII, p. 36 (Monodonta). Tasmania; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 69, f. 94; = *zebra* Menke, 1829. Verg. Malak. Conch. Samml., p. 17 (Monodonta). Type loc?; = *taeniata* Quoy & Gaimard, 1834. Voy. Astrolabe Zool. III, p. 249, pl. 63, f. 15-7 (Trochus). Port Jackson; = *porcata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 179 (Labio). Sydney, NSW; = *multicarinata* Chenu, 1859. Man. d. Conch. II, pl. 59, f. 2 (Trochocochlea). Type loc?; = *extenuata* Fischer, 1876. Icon. Coq. Viv., p. 330, pl. 103, f. 1 (Trochus). Sydney, NSW; = *obtusa* Hedley, 1917 (non Dillwyn, 1817). Proc. Linn. Soc. NSW XLI, p. 700, pl. 47, f. 12 (Austrocochlea); = *torri* Cotton and Godfrey, 1934. SA Nat. 16, pl. 1 (Austrocochlea). Gulf St. Vincent, SA.

96. *diminuta* Hedley, 1912. Rec. Aust. Mus. VIII, p. 137, pl. XLI, f. 12. Mappoon, Qld; ? = *tringulata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 153 (Type is lost).

97. *rudis* Gray, 1826. Append. Kings Survey II, 1827, p. 480 (Monodonta). Western Australia; Cotton, 1959. S. Aust. Moll., p. 164 - 165, f. 95; = *carbonaria* Philippi, 1848. Zeit. f. Malak. 1848, p. 103 (Trochus). King Georges Sound, WA; = *melanoloma* Menke, 1843. Moll. Nov. Holl., p. 14 (Monodonta). Western Coast; = *chloropoda* Tate, 1879. Trans. Phil. Soc. Adelaide II, p. 138 (Trochocochlea). Coymbra, Head of Bight & Wilson's Bluff.

Diloma (Chlorodiloma) Pilsbry, 1889
(type species *Monodonta crinita* Philippi)

98. *adelaidae* Philippi, 1849. Conch. Cab. II pt. II, p. 140, pl. 24, f. 1 (Trochus). Adelaide; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 70, f. 96; = *depressa* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 54 (Gibbula). Adventure Bay, Tas.; = *australis* Tenison-Woods, 1877. Proc. Roy. Soc. Tas. 1876, p. 145 (Diloma). N. Coast, Tas.; = *tesserula* Tenison-Woods, 1881. Trans. Roy. Soc. Vic. XVII, p. 81, pl. 1, f. 3-5 (Gibbula). Victoria

99. *crinita* Philippi, 1848. Zeit. f. Malak. p. 103. 'Australian coasts'; Philippi, 1848. Conch. Cab, II, p. 235, pl. 35, f. 9.

100. *odontis* Gray in Wood, 1828. Ind. Test Suppl. pl. 6, f. 37 (Trochus). Type loc?; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 70, f. 97.

101. *millelineata* Bonnett, 1864. Rev. et Mag. de Zool., p. 281, pl. 22, f. 5. Torres Straits; No shells found - identity uncertain.

Monodonta Lamarck, 1799
(type species *Trochus labio* L.)

102. *labio* L. 1758. Syst. Nat. Ed. 12, No. 595, p. 1230; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 43. Darnley Is., Torres Straits; Short and Potter, 1987. Shells of Qld. and the Great Barrier Reef, p. 10, pl. 4, f. 9; = *tuberculata* A. Adams, 1851. Proc. Zool. Soc. Lond. 1851, p. 175.

Calliotrochus Fischer, 1879
(type species *Turbo phasianella* Deshayes)

103. *marmoreus* Pease, 1861. Proc. Zool. Soc. Lond. 1860, p. 435. Sandwich Is.; Kay, 1979. Hawaiian Mar. Shells, p. 91, f. 14E; = *symbolicus* Iredale, 1937. Aust. Zool. 8, p. 246 (Calliotrochus).

Cantharidella Pilsbry, 1889
(type species *Gibbula picturata* A. Adams & Angas)

104. *balteata* Philippi, 1849. Zeit. f. Malak. p. 148 (Trochus). Yorke Peninsula, Gulf St. Vincent; Cotton, 1959. S. Aust. Moll., p. 175-6, f. 105; = *smaltata* Fischer, 1879. J. d. Conch. 1879, p. 22 (Trochus). Spencer Gulf, SA.

105. *beachportensis* Cotton & Godfrey, 1934. SA Nat. 15, p. 121 (Cantharidella). Beachport; Cotton, 1959. S. Aust. Moll., p. 176-7, f. 106.

106. *ocellina* Hedley, 1911. Endeavour Sci. Res., p. 101., pl. XVIII, f. 15 (Gibbula). Cape Wiles, SA, 100 fms.

107. *picturata* Adams & Angas, 1864. Proc. Zool. Soc. 1854, p. 36 (Gibbula). Port Jackson, NSW; May, 1923. Ill. Index Tasm. Shells, pl. XIX, f. 6; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 102, f. J. radula.

108. *tiberiana* Crosse, 1863. J. d. Conch. XI, p. 381, pl. XIII, f. 2 (Trochus). South Australia; = *aurea* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 153 (Gibbula). King Is.; = *decorata* A. Adams & Angas, 1864. Proc. Zool. Soc. Lond. 1864, p. 36 (Cantharidus). Yorke Peninsula; = *tesselata* Tenison-Woods, 1878. Trans. Roy. Soc. Vic. XIV, p. 58 (Thalotia). Type loc?

Chrysostoma Swainson, 1840
(Type species *Helix paradoxum* Born, 1780)

109. *paradoxum* Born, 1780. Test. Mus. Caes. Vindob., p. 349, pl. 13, f. 16, 17 (Helix). Type loc?; Wilson and Gillett, 1985. A field guide to Aust. Shells, p. 40, pl. 5, f. 12.

110. *zeus* Fischer, 1878. Coq. Viv., p. 334, pl. 104, f. 1 (Monodonta). Australia; Wilson and Gillett, 1985. A field guide to Aust. Shells, p. 42, pl. 5, f. 13.

Fossarina A. Adams and Angas, 1864
(type species *Fossarina patula* A. Adams & Angas)

111. *patula* Adams and Angas, 1863. Proc. Zool. Soc. Lond. 1863, p. 424, pl. XXXVII, f. 9-10 (Fossarina). Port Jackson, NSW; = *brazieri* Angas, 1871. Proc. Zool. Soc. Lond. 1871, p. 18, pl. 1, f. 24 (Fossarina). Port Jackson, NSW; = *funiculata* Tenison-Woods, 1881. Trans. Roy. Soc. Vic. XVII, p. 81, pl. 7, f. 6-7 (Fossarina). Victoria.

112. *petterdi* Crosse, 1870. J. d. Conch. 18, p. 303-4 (Fossarina). Hobart; = *sim(p)soni* Tenison-Woods, 1876. Trans. Roy. Soc. Tas. 1875, p. 145 (Fossarina). Long Bay, Bruny Is., Tas.; May, 1923. Illust. Index Tasm. Shells, pl. XIX, f. 13.

Fossarina (Minopa) Iredale, 1924
(type species *Fossarina legrandi* Petterd)

113. *legrandi* Petterd, 1879. J. of Conch. II, p. 104 (Fossarina). North Tasmania; Tate & May, 1901. Proc. Linn. Soc. NSW 25, p. 404, pl. 24, f. 21-2.

114. *reedi* Verco, 1907. Trans. Roy. Soc. SA 31, p. 307, pl. XXIX, f. 5 (Gibbula). South Australia.

Gibbula Risso, 1826

(type species *Trochus magus* L.)

115. *tenuilirata* Preston, 1909. Proc. Mal. Soc. Lond. 8, p. 375, text fig (*Gibbula*). N. Qld.; No shells found - identity uncertain; study of type specimen necessary to determine identity.

Gibbula (*Eurytrochus*) Fischer, 1880

(type species *Clanculus danieli* Crosse, 1862)

116. *concinna* Philippi, 1847. Conch. Cab., pl. XI, f. 6 (*Turbo*). Type loc?; Shirley, 1911. Proc. Roy. Soc. Qld., p. 96. Murray Is.; Smith, 1884. Rept. Zool. Coll. Alert, p. 70. Port Molle, Qld., on a coral reef.

117. *danieli* Crosse, 1862. J. d. Conch. X, p. 407, pl. 13, f. 5 (*Clanculus*). New Caledonia. Hedley, 1923. Proc. Linn. Soc. NSW, p. 307. Lizard Is., Qld.

118. *maccullochi* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 489, pl. XX, f. 50-52 (*Gibbula*). Masthead Is., Qld. Possibly synonymous with *G. concinna*.

119. *strangei* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 177 (*Gibbula*). Sydney, NSW; = *dacostana* Preston, 1909. Proc. Mal. Soc. Lond. VIII, p. 377, text fig (*Gibbula*). N. Qld.

120. sp. '*Eurytrochus*' sp. 1. Smith Pt., Cobourg Peninsula, NT.

Gibbula (*Hisseyagibbula*) Kershaw, 1955

(type species *Littorina hisseyana* Tenison-Woods, 1876)

121. *hisseyana* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 148 (*Littorina*). Derwent River, Tasmania, from stomach of fish; May, 1903. Proc. Roy. Soc. Tas. 1902, p. 111, f. 7.

Monodonta Lamarck, 1799

(type species *Trochus labio* Linnaeus, 1758)

122. *diminuta* Hedley, 1912. Rec. Aust. Mus. VIII, p. 137, pl. XLI, f. 12 (*Monodonta*). Mappoon, Qld. (Type is lost); ? = *tringulata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 175 (*Monodonta*). Type loc?

123. *labio* L. 1758. Syst. Nat. Ed. 12, No. 595, p. 1230 (*Trochus*). Type loc?; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 43. Darnley Is., Torres Straits; Short and Potter, 1987. Shells of Qld. and the Great Barrier Reef, p. 10, pl. 4, f. 9; = *tuberculata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 175 (*Monodonta*). Vansittart Bay, NWA; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 100, f. J,K. animal; id., p. 102, f. C. radula.

Nanula Thiele, 1924

(type species *Gibbula tasmanica* Petterd, 1879)

124. *flindersi* Cotton & Godfrey, 1935. SA Nat. 16, p. 40, text fig. (*Nanula*). St. Vincents Gulf, SA, 6 fms.

125. *galbina* Hedley & May, 1908. Rec. Aust. Mus. 7, p. 114, pl. XXII, f. 2 (*Gibbula*). Off Cape Pillar, Tas., 100 fms.

126. *tasmanica* Petterd, 1879. J. d. Conch., p. 103 (*Gibbula*). South Tasmania; May, 1923. Ill. Index Tasm. Shells, pl. XIX, f. 12.

Notogibbula Iredale, 1924

(type species *Gibbula coxi* Angas, 1867)

127. *bicarinata* A. Adams, 1854. Thes. Conch. II, p. 839. pl. 175, f. 39-40 (*Gibbula*). Moreton Bay, Qld.; = *coxi* Angas, 1867. Proc. Zool. Soc. Lond. 1867, p. 115, pl. 13, f. 28 (*Gibbula*). Port Jackson, NSW; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 61, f. 84.

128. *lehmanni* Menke, 1843. Moll. Nov. Holl., p. 13 (*Turbo*). Near Port Lechenault, WA; Cotton, 1959. S. Aust. Moll., p. 171-2, f. 101; = *pulchra* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 187 (*Gibbula*). Australia; = *rigata* Philippi, 1848. Conch. Cab. II, pt. II, p. 184, pl. 25, f. 14 (*Trochus*). Adelaide, SA.

129. *preissiana* Philippi, 1848. Zeit. f. Malak. 1848, p. 123 (*Trochus*). Western Australia; Cotton, 1959. S. Aust. Moll., p. 170-1, f. 100; = *porcellana* A. Adams, 1854. Proc. Zool. Soc. 1854, p. 40 (*Gibbula*). New Holland; = *weldii* Tenison-Woods, 1877. Proc. Roy. Soc. Tas. 1876, p. 143 (*Gibbula*).

Priotrochus Fischer, 1880

(type species *Trochus obscurus* Wood, 1828)

130. *incertus* Schepman, 1908. Siboga Exped., p. 45 - 46, pl. 2, f. 4 (*Priotrochus*). Western Entrance, Samau Strait, 390 m., coarse coral sand; New record for Australia. ca 190 ml. NW Port Hedland, WA, 19°32'S, 115°49'E, 183 m.

Tribe *Cantharidini* Cotton, 1959

Alcyna A. Adams, 1860

(type species *Alcyna ocellata* A. Adams, 1860)

131. *acia* Cotton, 1948. Trans. Roy. Soc. SA 72, p. 31, pl. I, f. 7-8 (*Alcyna*). Rottnest Is., WA.

132. *australis* Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 491, pl. XVIII, f. 29 (*Alcyna*). Masthead Is. Qld.

133. *kingensis* Gabriel, 1956. Mem. Nat. Mus. Vict. 22, p. 5, f. 3 (*Cantharidus*). Bass Strait; No additional shells found.

134. sp. '*Cantharidus*' sp. 2. Bathurst Pt., Rottnest Is., WA, beach.

135. sp. '*Cantharidus*' sp. 3. Bathurst Pt., Rottnest Is., WA, beach.

136. sp. '*Cantharidus*' sp. 4. South Cowaramup, WA, beach.

137. sp. '*Cantharidus*' sp. 5. South Cowaramup, WA, beach.

138. sp. '*Cantharidus*' sp. 6. Rottnest Is., WA, beach.

Calthalotia Iredale, 1929

(type species *Calliostoma arruense* Watson, 1880)

139. *arruensis* Watson, 1880. J. Zool. Rep. Chall. XVI, pl. VI, f. 5, p. 57 (*Calliostoma*); = *torresi* Smith, 1884. Rept. Zool. Coll. Alert, p. 72, pl. VI, f. A (*Trochus* (*Thalotia*)). Prince of Wales Is., Torres Straits; = *nitidissima* Ludbrook, 1941. Trans. Roy. Soc. SA 65, p. 83, pl. IV, f. 11 (*Calthalotia*). Abbatoirs Bore, Adelaide.

140. *modesta* Thiele, 1930. Fauna Südwest Aust. 9 No. 8, p. 565 (*Calliostoma*). Shark Bay; Ponder, 1978. Rec WA Mus. 6 (4), p. 323, pl. 2, f. 5-6.

141. sp. '*Calthalotia*' sp. 1. 20 mls. N. of Delambre, Dampier Archipelago, WA, in sand.

Cantharidus Montfort, 1810

(type species *Trochus iris* Gmelin, 1790)

142. *crenelliferus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 173 (*Thalotia*). Australia; Hedley, 1908. Proc. Linn. Soc. NSW 33, p. 481, pl. VII, f. 5.

143. *fournieri* Crosse, 1863. J. d. Conch. XI, p. 180, pl. IV, f. 5 (*Trochus*). New Caledonia; Hedley, 1913. Proc. Linn. Soc. NSW 38, p. 281. N. Qld.; Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 34, pl. 8, f. 9; Probably not Australian.

144. *lepidus* Philippi, 1846. Conch. Cab. II, p. 84, pl. 15, f. 4 (*Trochus*). Swan River; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 86; = *erogatus* Fischer, 1879. Coq. Viv., p. 128, t. 45, f. 1 (*Trochus*); = *indistinctus* Kiener, 1859 (non Wood, 1828). Species et Icon., pl. 45, f. 1 (*Trochus*); = *articularis* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 169 (*Cantharidus*). Type loc?; = *punctulosus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 169 (*Cantharidus*). Swan River, WA, 4 fms.

145. *pallidulus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 170 (*Cantharidus*). Australia; Hedley, 1913. Proc. Linn. Soc. NSW 38, p. 281, pl. XV, f. 49; No shells found - identity uncertain. Hedley figured type specimen - looks like *C. lepidus*.

146. *polychroma* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 168 (*Zizyphinus*). Island of Masbate, sandy mud, 7 fms.; Ponder, 1978. Rec WA Mus. 6 (4), p. 433-4; Hedley, 1913. Proc. Lin. Soc. NSW 38, p. 279. Masthead Is., Qld; = *picturatus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 168 (*Zizyphinus*). Delaguete, Island of Negros, sandy mud, 7 fms; = *monile* Reeve, 1863. Conch. Icon., pl. VI, sp. 39 (*Zizyphinus*). Port Curtis; = *vexillum* Reeve, 1863. Conch. Icon. XIV, pl. VIII, sp. 59 (*Zizyphinus*). Australia; Identity uncertain - relationship with *C. crenelliferus*?

147. *tristis* Thiele, 1930. Fauna Südwest Aust. 9 No. 8, p. 567 (*Cantharidus* (*Jujubinus*)). Shark Bay.

148. sp. '*Cantharidus*' sp. 7. Denham, Shark Bay, 1/4 - 1/2 mls from shore, 1-3.5 m, on *Posidonia* and *Cymadocea*.

149. sp. '*Cantharidus*' sp. 8. Pt. Peron, WA.

150. sp. '*Cantharidus*' sp. 9. Sahul Banks, Timor Sea, NW Aust.

151. sp. '*Cantharidus*' sp. 10. Denham, Shark Bay, 1/4 - 1/2 mls from shore, on *Posidonia* and *Cymadocea*.

Odontotrochus Fischer, 1879

(type species *Trochus chlorostomus* Menke, 1843)

152. *chlorostomus* Menke, 1843. Moll. Nov. Holl., p. 17 (*Trochus*). Western Coast; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 87; = *freycineti* Fischer, 1878. J. d. Conch. 1878, p. 65 (*Trochus*). Is. of St. Peter and Francis, SA; = *neglectus* Tate, 1893. Trans. Roy. Soc. SA 17, p. 194, pl. 1, f. 6 (*Thalotia*). South Australia; = *blandianus* Crosse, 1864. J. d. Conch. 1864, p. 339, pl. 13, f. 1 (*Trochus*). South Australia; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 28, f. E. radula.

153. *indistinctus* Wood, 1828. Suppl. Test., t. 6, f. 41 (*Trochus*). Australia; = *decoratus* Philippi 1846 (non Hehl, 1832). Zeit. f. Malak. 1846, p. 102 (*Trochus*); = *fragum* Philippi, 1848. Zeit. f. Malak. 1848, p. 106 (*Zizyphinus*). Australia; = *pyrgos* Philippi, 1849. Conch. Cab. II, pt. II, p. 297 (*Trochus*); = *zebrides* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 173 (*Thalotia*). Type loc?; = *marginatus* Tenison-Woods, 1879. Proc. Linn. Soc. NSW 1879, p. 109 (*Thalotia*). Moreton Bay; Short and Potter, 1987, Shells of Qld. and the Great Barrier Reef, p. 12, pl. 5, f. 2; = *comtessei* Iredale, 1924. Rec. Aust. Mus. 18, p. 208, pl. 23, f. 8 (*Thalotia*). Sydney Harbour, NSW; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 106, f. A,D. radula.

154. *poppei* Lan, 1991. Bull. of Mal. R.O.C. 16, p. 1, text figs (*Tegula*). NW Australia.

Phasianotrochus Fischer, 1885

(type species *Trochus badius* Wood, 1828)

155. *apicinus* Menke, 1843. Moll. Nov. Holl., p. 15 (*Monodonta*). Western Coast; Wells and Bryce, 1985. Seashells of WA, p. 42, f. 64; = *ornatus* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 153 (*Cantharidea*). North coast Tasmania.

156. *bellulus* Dunker, 1845. Phil. Abbild. t. 7, f. 6 (*Trochus*). Australia; Wells and Bryce, 1985. Seashells of WA, p. 42, f. 66.

157. *eximius* Perry, 1811. Conchology 1811, pl. 32, f. 2 (*Bulmus*). Tasmania; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 69, f. 87; = *carinatus* Perry, 1811 (non Bruguière, 1792). Conchology 1811, pl. 32 (*Bulmus*); = *badius* Wood, 1828. Ind. Test. Suppl. t. 6, f. 46 (*Trochus*); = *australis* Quoy & Gaimard, 1834. Voy. Astrolabe Zool. III, p. 248, pl. 63, f. 13-4 (*Trochus*). New Holland; = *ocellatus* Gould, 1862 (non Adams, 1853). Otia. Conch., p. 156 (*Elenchus*). Sydney, NSW; = *rosea* Lamarck, 1822 (non Gmelin, 1791). An. s. Vert., p. 37 (*Monodonta*); = *lineatus* Lamarck, 1822. An. s. Vert. VII, p. 144, pl. 19, f. 2 (*Monodonta*); = *peronii* Philippi, 1846. Conch. Cab. II, pt. II, p. 135, pl. 23, f. 9 (*Trochus*); = *leucostigma* Menke in Philippi, 1843. Abb. Besch. 11, *Trochus*, t. 7, f. 7 (*Trochus*); = *gracilis* Anton in Philippi, 1846. Conch. Cab., p. 140, t. 23, f. 20 (*Trochus*). Type loc?; = *pulimineus* Kiener, 1859. Species et Icon., genre *Trochus*, pl. 50, f. 1 (*Trochus*); = *lividus* Kiener, 1859. Species et Icon. pl. 50, f. 2 (*Trochus*); = *splendidulus* Swainson, 1840. Treatise on Mal. 1840, p. 352 (*Elenchus*); Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 106, f. J. radula.

158. *irisodontes* Quoy and Gaimard, 1834. Voy. Astrolabe Zool. III, p. 246, pl. 63, f. 7-12 (*Trochus*). Western Port; Wells and Bryce, 1985. Seashells of WA, p. 42, f. 65; = *iridon* Philippi, 1846. Conch. Cab. II, pt. II, p. 136, pl. 23, f. 10, 11, 13 (*Trochus*); = *laetus* Philippi, 1846. Conch. Cab. II, pt. II, p. 133, pl. 22, f. 6 (*Trochus*). Australia; = *virgulatus* Philippi, 1846. Conch. Cab. II, pt. II, p. 136, pl. 23, f. 12 (*Trochus*); = *virgata* Menke, 1843. Moll. Nov. Holl., p. 15 (*Monodonta*). Western Coast; = *minor* Philippi, 1846. Conch. Cab., p. 136, t. 23, f. 12 (*Trochus*); = *schrayeri* Philippi, 1846. Conch. Cab. II, pt. II, pl. 23, f. 3 (*Trochus*). Tasmania; = *nitidulus* Philippi, 1846. Conch. Cab. II, pt. II, pl. 43, f. 10 (*Trochus*).

159. *rutilus* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 171 (*Elenchus*). Australia; Macpherson and

Gabriel, 1962. Mar. Moll. Vict., p. 66, f. 91.

160. *sericinus* Thiele, 1930. Fauna Südwest Aust. 9 No. 8, p. 567 (Cantharidus). Cockburn Sound, WA; Ponder, 1978. Rec. WA Mus 6 (4), p. 434-5. Station 48, northern side of Port Royal (Careening Bay), 14.5 - 18 m, mud and algae, Cockburn Sound, WA; No shells found - identity uncertain.

Prothalotia Thiele, 1930

(type species *Trochus flindersi* Fischer, 1878)

161. *baudini* Fischer, 1878. J. d. Conch. XXVI, 1878, p. 65 (*Trochus*). King Island; Pilsbry, 1889. Man. Conch. XI, p. 146, pl. 46, f. 80; Identity uncertain.

162. *chlorites* Philippi, 1846. Conch. Cab. II, pt. II, p. 60, pl. 13, f. 2 (*Trochus*). West Coast Australia; Pilsbry, 1889. Man. Conch. XI, p. 139, pl. 51, f. 12; = *viridulus* Menke, 1843 (non Gmelin, 1791). Moll. Nov. Holl., p. 17 (*Trochus*). Western Coast; Identity uncertain.

163. *flindersi* Fischer, 1878. J. d. Conch. XXVI, 1878, p. 65 (*Trochus*). King Georges Sound; Pilsbry, 1889. Man. Conch. XI, p. 145, pl. 46, f. 81; Identity uncertain.

164. *lehmanni* Menke, 1843. Moll. Nov. Holl., p. 18 (*Trochus*). Western Coast; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 85; = *leseuri* Fischer, 1880. Coq. Viv. 1876, p. 129, pl. 45, f. 2 (*Trochus*); = *elegans* Lamarck, 1822 (non Gmelin, 1791). An. s. Vert. VII, p. 53 (*Phasianella*). New Holland; = *ramburi* Crosse, 1864. J. d. Conch. XII, p. 342, pl. XIII, f. 3 (*Trochus*). South Australia; = *nitens* Kiener, 1859. Spec. et Icon., t. 45, f. 4 (*Trochus*).

165. *pulcherrima* Wood, 1828. Ind. Test. Suppl. t. 6, fig. 45 (*Trochus*); Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 63, f. 85; = *preisii* Menke, 1843. Moll. Nov. Holl., p. 17 (*Trochus*). Western Coast; = *puella* Philippi, 1851. Conch. Cab. II, pt. II, p. 327, pl. 46, f. 12 (*Trochus*). Australia; = *mariae* Tenison-Woods, 1877. Proc. Roy. Soc. Vic. XIV, p. 58 (*Thalotia*). Hobsons Bay, Pt. Philip Heads, Vic.

166. cf. *serpentina* Quoy in Kiener, 1859. Species et Icon., genre *Trochus*, t. 45, f. 3 (*Trochus*). Guam, Marianne Archipelago; Pilsbry, 1889. Man. Conch. XI, p. 143, pl. 46, f. 63; New record for Australia. Scarborough, Moreton Bay, Qld.

167. *strigata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 172 (*Thalotia*). Swan Point near King Georges Sound, WA; = *mundula* A. Adams & Angas, 1864. Proc. Zool. Soc. Lond. 1864, p. 37 (*Thalotia*). Shark Bay; Hedley, 1908. Proc. Linn. Soc. NSW 33, p. 482, pl. VII, f. 3; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 106, f. I. *radula*.

168. *suturalis* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 173 (*Thalotia*). Cape Upstart, Torres Straits; Hedley, 1908. Proc. Linn. Soc. NSW 33, p. 480. Type figured.

Thalotia Gray, 1847

(type species *Monodonta conica* Gray, 1827)

169. *attenuata* Jonas, 1844. Zeit. f. Malak. 1844, p. 170 (*Trochus*); = *elongata* Wood, 1828 (non Sowerby, 1818). Ind. Test. Suppl. p. 17, pl. 5, f. 19 (*Trochus*); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p.34, pl. 8, f. 11.

170. *conica* Gray, 1827. Append. Kings Survey II, p. 479 (*Monodonta*). Australia; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 84; = *picta* Wood, 1828. Ind. Test. Suppl., p. 17, pl. 5, f. 28 (*Trochus*); = *turrita*

Menke, 1843. Moll. Nov. Holl., p. 15 (Monodonta). Western Coast; = dubia Tenison-Woods, 1878. Proc. Roy. Soc. Vic. 1878, p. 59 (Thalotia). Clarks Is., Tasmania; = lehmanni Kiener, 1859. Coq. Viv., pl. 46, f. 2-2a (Trochus); = troschelli Philippi, 1849. Conch. Cab., p. 131, t. 23, f. 2 (Trochus); = abnormis Crosse, 1864. J. d. Conch. 12, p. 341-2 (Trochus). South Australia; = woodsiana Angas, 1872. Proc. Zool. Soc. Lond. 1872, p. 611, pl. 42, f 4-5 (Thalotia). Portland Bay; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 106, f. B, E. radula.

171. sp. 'Thalotia' sp. 3. Off Newcastle, NSW, 154-164 m.

Subfamily Stomatellinae Gray, 1840

Stomatella s.l. Lamarck, 1816

(type species *Patella lutea* Linnaeus, 1758)

172. *articulata* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 30 (Stomatella); Pilsbry, 1890. Man. Conch. XII, p. 13, pl. 52, f. 43; Barnard, 1963. Ann South Afr. Mus. XLVII, p. 244; A South African species.

173. *biporcata* A. Adams, 1854. Thes. Conch. II, p. 839, pl. CLXXV, f. 43 (Stomatella); Pilsbry, 1890. Man. Conch. XII, p. 21, pl. 52, f. 52; Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 478. Masthead Is., Qld.; Tomlin, 1921. J. of Conch. XVI p. 237; Barnard, 1963. Ann. South Afr. Mus. XLVII, p. 275; A South African species.

174. sp. 'Stomatella' sp. 1. Cottlesloe, WA.

Stomatia Helbling, 1779

(type species *Stomatia phymotis* Helbling, 1779)

175. *angulata* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 34 (Stomatia). Type loc?; Sowerby, 1854. Thes. Conch. II, p. 843, pl. 175, f. 57; Pilsbry, 1890. Man. Conch. XII, p. 32, f. 54, f. 6. Luzon, Philippines; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 48. Palm Island, Qld.; Identity uncertain - note from Garrard in AM: type compared with that of *S. biporcata* and found to be synonymous.

176. *decussata* A. Adams, 1850. Proc. Zool. Soc. Lond., p. 34 (Stomatia). Type loc?; Sowerby, 1854. Thes. Conch. II, p. 843, pl. 175, f. 60; Pilsbry, 1890. Man. Conch. XII, p. 32, pl. 54, f. 12. Luzon, Philippines; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 48. Darnley Island, Torres Straits; Identity uncertain.

177. *duplicata* Sowerby, 1854. Thes. Conch. II, p. 841, pl. 175, f. 61-63 (Stomatia); Pilsbry, 1890. Man. Conch. XII, p. 31, pl. 54, f. 4, 5, 8, 9, 10; Hedley, 1916. J. Roy. Soc. WA 1, p. 177. Monte Bello Island, WA; Identity uncertain.

178. *phymotis* Helbling, 1779. Abh. Privat-Gesellsch. Bohmen. Math. Vaterl. Gesch. u. Naturgesch. IV, p. 124 (Stomatia). East Indies; Wells and Bryce, 1988. Seashells of WA, p. 42, f. 62; = *imperforata* Gmelin, 1791. Syst. Nat., p. 3690, n. 11 (Haliotis). India; ? = *australis* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 34 (Stomatia). Darnley Island; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 28, f. F. radula.

179. *rubra* Lamarck, 1908. An. s. Vert. Ed. Desh. vol. IX, p. 10 (Stomatella); Pilsbry, 1890. Man. Conch. XII, p. 33, pl. 54, f. 31-33, pl. 51, f. 26-28; Abbott and Dance, 1986. Compendium of Seashells, p. 44; = *sculpturata* Preston, 1914. Proc. Mal. Soc. Lond. 11, p. 17-18, text. figs (Stomatia). Monte Bello Is., WA; = *sulcata* Lamarck, 1916. Ency. Meth. pl. 450, f. 3 (Stomatella).

Microtis A. Adams, 1850

(type species *Microtis tuberculata* A. Adams, 1850)

180. *heckeliana* Crosse, 1871. J. d. Conch. XVIII, p. 138 (Microtina). Noumea; Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 36, pl. 9, f. 9; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 108, f. F. living animal.

181. *tuberculata* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 36, pl. VIII, f. 3-12 (Microtis); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 36, pl. 9, f. 8; = *dubia* Lamarck, 1843. An. s. Vert. IX, p. 30 (Stomatella).

Gena Gray, 1850

(type species *Stomatella nigra* Quoy & Gaimard, 1834)

182. *auricula* Lamarck, 1818. Ency. Meth., p. 10, pl. 450, f. 1a-b (Stomatella). New Holland; Pilsbry, 1890. Man. Conch. XII, p. 43, pl. 2, f. 21-23; Angas, 1865. Proc. Zool. Soc. Lond. 1865., p. 183. Salt Creek, Yorks Peninsula, Port Jackson; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 108, f. G. living specimen; id., p. 110, f. C. *radula*. Relationship with *G. impertusa*?

183. *impertusa* Burrows, 1815. Elem. Conch, p. 162, pl. 21, f. 2 (Haliotis). Port Jackson, NSW; Short and Potter, 1987. Shells of Qld. and the Great Barrier Reef, p. 12, pl. 5, f. 8; = *strigosa* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 37 (*Gena*); = *planulata* Lamarck, 1827. Desh. An. s. Vert. IX, p. 17 (Stomatella).

184. *lintricula* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 30 (*Gena*). Type loc?; Sowerby, 1854. Thes. Conch. II, p. 830, pl. 173, f. 22; Pilsbry, 1890. Man. Conch. XII, p. 44, pl. 55, f. 14; Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 48. Sue Island, Torres Straits; Identity uncertain.

185. *minor* Odhner, 1917. Kungl. Svenska Vetensk. Handl. no. 16, p. 43 (*Gena*). Cape Jaubert, WA; Identity uncertain.

186. *nebulosa* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 38 (*Gena*). Australia; Pilsbry, 1890. Man. Conch. XII, p. 42, pl. 55, f. 13; Identity uncertain.

187. *nigra* Quoy & Gaimard, 1834. Voy. Astrolabe. vol. III, p. 307, pl. LXVI, f. 10-12 (Stomatella). Type loc?; Pilsbry, 1890. Man. Conch. XII, p. 38, pl. 51, f. 20-21. Tonga-Taboo; Brazier, 1899. J. of Conch. VI, p. 74. Bottle & Glass Rocks; Identity uncertain.

188. *striatula* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 37 (*Gena*). Swan River, WA; Pilsbry, 1890. Man. Conch. XII, p. 38, pl. 55, f. 34-35.

189. *terminalis* Verco, 1905. Trans. Roy. Soc. SA, p. 166-7 (*Gena*). Wallaroo Bay, Spencer Gulf, SA, 15 fms.

190. *ungula* Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 488 (*Gena*). Masthead Is., Qld.

191. *varia* A. Adams, 1850. Proc. Zool. Soc. Lond. 1850, p. 37 (*Gena*). Australia; Pilsbry, 1890. Man. Conch. XII, p. 45, pl. 55, f. 19-20; Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 478. Masthead Is., Qld; Identity uncertain.

Pseudostomatella Thiele, 1924

(type species *Turbo papyracea* Gmelin, 1791)

192. *baconi* A. Adams, 1854. *Thes. Conch.* II, p. 38, pl. 174, f. 25-6 (*Stomatella*). Swan River; Pilsbry, 1890. *Man. Conch.* XII, p. 10-11, pl. 52, f. 38-39. Swan River, WA; Identity uncertain.

193. *clathratula* A. Adams, 1855. *Proc. Zool. Soc. Lond.* 1855, p. 133 (*Stomatella*). NW Australia; Pilsbry, 1890. *Man. Conch.* XII, p. 14, pl. 53, f. 94; Identity uncertain.

194. *papyracea* Gmelin, 1791. *Syst. Nat. Ed.* 13, p. 3596 (*Turbo*); Wells and Bryce, 1988. *Seashells of WA*, p. 42, f. 61 (*Stomatia*).

Stomatolina Iredale, 1927

(type species *Stomatella rufescens* Gray, 1847)

195. *rufescens* Gray, 1847. *Append. Voy. Fly II*, p. 340, pl. II, f. 2 (*Stomatella*). Raine's Island; Pilsbry, 1890. *Man. Conch.* XII, p. 17, pl. 51, f. 11.

196. *mariei* Crosse, 1871. *J. d. Conch.* 1872, p. 220, pl. XIII, f. 3 (*Stomatella*). New Caledonia; Pilsbry, 1890. *Man. Conch.* XII, p. 15, pl. 53, f. 68-72.

197. *orbiculata* A. Adams, 1850. *Proc. Zool. Soc. Lond.* 1850, p. 31 (*Stomatella*); Pilsbry, 1890. *Man. Conch.* XII, p. 17, pl. 53, f. 44, 45; Brazier, 1877. *Proc. Linn. Soc. NSW* 2, p. 47. Darnley Island, Torres Straits; Identity uncertain.

198. *sanguinea* A. Adams, 1850. *Proc. Zool. Soc. Lond.* 1850, p. 52 (*Stomatella*); Pilsbry, 1890. *Man. Conch.* XII, p. 18-19, pl. 53, f. 85, 86; Talamadge, 1961. *Veliger* 3 (4), p. 112.

Synaptocochlea Pilsbry, 1890

(type species *Stomatella montrouzieri* Pilsbry, 1890)

199. *concinna* Gould, 1845. *Bost. Soc. Nat. Hist. Proc.* V. 2, p. 26 (*Stomatella*); Cernohorsky, 1978. *Trop. Pac. Marine Shells*, p. 36, pl. 9, f. 10; New record for Australia. Great Barrier Reef off Cairns.

200. *stellata* Soubrier, 1863. *J. d. Conch.*, p. 169, pl. V, f. 10 (*Stomatella*); Cernohorsky, 1978. *Trop. Pac. Mar. Shells*, p. 37, text fig. 4; = *ornata* Brazier, 1877. *Proc. Linn. Soc. NSW* 11, p. 47 (*Stomatella*). Barnard Is. No. III; = *montrouzieri* Pilsbry, 1890. *Man. Conch.* XII, p. 27, pl. 53, f. 74-75 (*Stomatella*). *Is. of Art, New Caledonian Archipelago*.

Subfamily *Calliostomatinae* Thiele, 1924

Calliostoma Swainson, 1840

(type species *Trochus conulus* Linnaeus, 1758)

201. *speciosum* A. Adams, 1854. *Proc. Zool. Soc. Lond.* 1854, p. 38 (*Zizyphinus*). Moreton Bay, Qld.; Cernohorsky, 1978. *Trop. Pac. Mar. Shells*, p. 35, pl. 19, f. 3.

202. sp. '*Calliostoma*' sp. 1. Lion Is., Esperance, WA, 1-10 m.

203. sp. '*Calliostoma*' sp. 2. Bay Rocks, Duke of Orleans Bay, WA, 5 m.

204. sp. 'Calliostoma' sp. 3. John Is., Duke of Orleans Bay, WA, 0-10 m.
205. sp. 'Calliostoma' sp. 4. NW Cape, WA.
206. sp. 'Calliostoma' sp. 6. Flinders Bay, WA, beach.
207. sp. 'Calliostoma' sp. 9. Esperance, WA, from stomach of a fish caught at 600 ft.
208. sp. 'Calliostoma' sp. 10. Esperance, WA, from stomach of a fish caught at 600 ft.
209. sp. 'Calliostoma' sp. 11. 170 ml N. of Broome, WA, 210 m.

Calliostoma (*Benthastelena*) Iredale, 1936
(type species *Benthastelena katherina* Iredale, 1936)

210. *katherina* Iredale, 1936. Rec. Aust. Mus. 19, p. 285, pl. XXI, f. 12 (*Benthastelena*). Off Sydney, NSW 110 fms.

Calliostoma (*Fautor*) Iredale, 1924
(type species *Zizyphinus comptus* A. Adams, 1854)

211. *allporti* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 155 (*Zizyphinus*). Bass Strait; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 57, f. 76; = *tinctus* Watson, 1886. Chall. Exped. XV, p. 63, pl. XVII, f. 2 (*Trochus*). off Moncoeur Is., Bass Strait, 38 fms.

212. *armillatum* Wood, 1828. Ind. Test. Suppl. pl. 9, f. 5 (*Trochus*). Tasmania; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 58, f. 79; = *euglyptus* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 180 (*Zizyphinus*). Van Diemen's Land; = *granatinus* Chemnitz, 1791 (non binominal). Conch. Cab. V, p. 100, pl. 170, f. 654-5 (*Trochus*); = *granulatum* Born, 1778. Test. Mus. Caes. Vind., p. 337, pl. 12 (*Zizyphinus*); = *levis* Hombron & Jaquard, 1853. Voy. au Pole Sud vol. V, p. 56 (*Trochus*). New Holland; = *meyeri* Philippi, 1848. Zeit. f. Malak. 1848, p. 101 (*Trochus*). Type loc?

213. *ciliare* Menke, 1843. Moll. Nov. Holl, p. 17 (*Trochus*). North-western Coast; Wells and Bryce, 1985. Seashells of WA, p. 40, f. 58; = *castra* Reeve, 1863. Conch. Icon. XIV, pl. II, sp. 14 (*Zizyphinus*). Swan River; = *calliope* Cotton and Godfrey, 1938. Rec. SA Mus. 6 (2), p. 200 (*Calliostoma* (*Salsipotens*)). Gulf St. Vincent, SA, 13-17 fms.

214. *columnarium* Hedley and May, 1908. Rec. Aust. Mus., 8, p. 115, pl. XXII, f. 3 (*Calliostoma*). 100 fms. off Cape Pillar, Tas.

215. *comptum* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 38 (*Zizyphinus*). New Caledonia; Hedley, 1913. Proc. Linn. Soc. NSW 38, p. 279; Iredale, 1924. Proc. Linn. Soc. NSW 49, p. 229; = *poupineli* Montrouzier, 1875. J. d. Conch. 1875, p. 40, pl. 4, f. 6 (*Trochus*); = *purpureocinctum* Hedley, 1894. Proc. Linn. Soc. NSW XIX, p. 35 (*Calliostoma*). Sydney, NSW.

216. *duplicatum* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 168 (*Zizyphinus*). SW Australia; Pilsbry, 1890. Man. Conch. XI, p. 356, pl. 17, f. 26; No shells found - identity uncertain.

217. *excultum* Iredale, 1931. Rec. Aust. Mus. 18, p. 208, pl. XXII, f. 15 (*Fautor*). Off Disaster Bay, NSW, 50 fms.

218. *hedleyi* Pritchard and Gatliff, 1902. Proc. Roy. Soc. Vic. 14, p. 182, pl. IX, f. 4 (*Calliostoma*). Off Rhyll, Philip Is., 5-7 fms; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 57-58, f. 77.

219. *legrandi legrandi* Tenison-Woods, 1876. Proc. Roy. Soc. Tas. 1875, p. 154 (*Zizyphinus*). Chappell Is., Bass Straits; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 58, f. 78.

220. *legrandi tentabundum* Iredale, 1925. Rec. Aust. Mus. XIV, p. 258 (*Fautor*). Off Twofold Bay, NSW, 25-30 fms.

221. *retiarum* Hedley and May, 1908. Rec. Aust. Mus. VII, p. 115, pl. XXII, f. 1 (*Calliostoma*). Off Cape Pillar, Tas., 100 fms.

222. *rubiginosum rubiginosum* Valenciennes, 1846. Voy. Venus, pl. 4, fig. 1 (*Trochus*). SWA; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 88; = *splendidus* Philippi, 1846. Conch. Cab., p. 255 (*Trochus*); = *australis* Broderip, 1855. Zool. J. 5, p. 331 (*Trochus*). Garden Island; = *broderipi* Philippi, 1846. Conch. Cab. II, pt. III, p. 257, pl. 38, f. 5 (*Trochus*). Australia; = *nobilis* Philippi, 1846 (non Münster, 1835). Conch. Cab. II, pt. II, pl. 15, f. 6 (*Trochus*). Western Australia; = *gemmosus* Reeve, 1842. Proc. Zool. Soc. Lond. 1842, p. 184 (*Trochus*).

223. *rubiginosum simile* Reeve, 1863. Conch. Icon. XIV, pl. V, f. 32 (*Zizyphinus*). Lizard Is., N. Aust.; = *excellens* Thiele, 1930. Fauna Südwest Aust. 9 no. 8, p. 565 (*Calliostoma*). Houtman Abrolhos.

224. *zietzi* Verco, 1905. Trans. Roy. Soc. SA 29, p. 166, pl. 31, f. 1-3 (*Calliostoma*). Backstairs Passage, St. Vincent's Gulf, SA, 12-20 fms.

Calliostoma (*Laetifautor*) Iredale, 1929
(type species *Calliostoma trepidum* Hedley, 1907)

225. *deceptum* Smith, 1889. Proc. Mal. Soc. Lond. 3, p. 312, f. V (*Calliostoma*). Holothuria Bank, NWA, 15-34 fms.; = *rubropunctatum* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 167 (*Zizyphinus*). Type loc?; = *trepidum* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 490, pl. 16, f. 3 (*Calliostoma*). Masthead Is., Qld., 17-20 fms.; = *punctatocostata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 187 (*Gibbula*). Island of Capul, on the reefs at low water.

226. *monile* Reeve, 1863. Conch. Icon. XIV, pl. VI, sp. 39 (*Zizyphinus*). Port Curtis, Eastern Australia; Wells and Bryce, 1985. Seashells of WA, p. 40, f. 57.

227. *scobinatum* Reeve, 1863. Conch. Icon. XIV, pl. 5, sp. 29 (*Zizyphinus*); Brazier, 1877. Proc. Linn. Soc. NSW 2, p. 44. Darnley Island, Torres Straits; Melvill and Standen, 1901. Proc. Zool. Soc. Lond. 2, p. 350. Bombay; No shells found - probably not Australian.

Calliostoma (*Spicator*) Cotton and Godfrey, 1935
(type species *Calliostoma spinulosum* Tate, 1893)

228. *spinulosum* Tate, 1893. Trans. Roy. Soc. SA 17, p. 195, pl. 1, f. 7 (*Calliostoma*). Moonta Bay, SA; Identity uncertain - may be synonymous with *C. deceptum*.

Astele Swainson, 1840
(type species *Trochus subcarinatus* Swainson, 1855)

229. *bullara* Garrard, 1961. J. Malac. Soc. Aust. 5, p. 10-11, pl. 2, f. 5 (Astele). Cape Moreton, Qld.; Cernohorsky, 1978. Trop Pac. Mar. Shells, p. 35, pl. 9, f. 4.

230. *crassicostata* Schepman, 1908. Siboga Exped., p. 67, pl. VI, fig. 1, (Calliostoma). Lirung, Salibabu Island, Indonesia, 36 m., mud and hard sand; New record for Australia. Keppel Bay, Qld.

231. *stenomphala* Smith, 1898. Proc. Mal. Soc. Lond. 3 (2), p. 209, f. III (Astele). Holothuria Banks, NWA, 15 fms.

232. *subcarinata* Swainson, 1855. Proc. Roy. Soc. Van Diemen's Land 1855, pl. VI, f. 1-2 (Astele). Tasmania; Macpherson and Gabriel, 1962. Mar. Moll. Vict. p. 59-61, f. 82; = *perspectiva* A. Adams, 1863. Proc. Zool. Soc. Lond. 1863, p. 506 (Eutrochus); = *subgranularis* Dunker, 1871. Mal. Blatt 1871, p. 170, No. 56 (Zizyphinus); = *subgranulatus* Dunker, 1871. Schmeltz Cat. Mus. Godeff. V. 1874, p. 147 (Zizyphinus). Bass Strait; = *adamsi* Pilsbry, 1889. Man. Conch., XI, p. 403 (Calliostoma). Tasmania.

Astele (Astelena) Iredale, 1924
(type species *Zizyphinus scitulus* A. Adams, 1854)

233. *multigrana* Dunker, 1871. Malak. Blatt XVIII, p. 169 (Zizyphinus); Cotton, 1959. S. Aust. Moll., p. 147-8, f. 81.

234. *scitula* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 38 (Zizyphinus). Port Jackson, NSW; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 61, f. 83.

Astele (Callistele) Cotton and Godfrey, 1935
(type species *Astele calliston* Verco, 1905)

235. *calliston* Verco, 1905. Trans. Roy. Soc. SA 29, p. 167, pl. 31, f. 7-8 (Astele). Spencer Gulf, SA, 20 fms.

Astele (Coralastele) Iredale, 1930
(type species *Coralastele allanae* Iredale, 1930)

236. *allanae* Iredale, 1930. Mem. Qld. Mus. 10, p. 76-77 (Coralastele). North-west Island, Capricorn Group, Qld.; Short and Potter, 1987. Shells of Qld. and the Great Barrier Reef, p. 12, pl. 5, f. 4.

Astele (Sinutor) Cotton and Godfrey, 1935
(type species *Zizyphinus incertus* Reeve, 1863)

237. *incerta* Reeve, 1863. Conch. Icon. XIV, pl. V, sp. 28 (Zizyphinus). Tasmania; Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 59, f. 81.

Subfamily Thysanodontinae Marshall, 1988

Carinastele Marshall, 1988
(type species *Carinastele kristelleae* Marshall, 1988)

238. *niceteria* Hedley and May, 1908. Rec. Aust. Mus. VII, p. 116, p. 22, f. 4-5 (*Basilissa*). E. of Cape Pillar, Tasmania, 100 fms.

Subfamily Solariellinae Powell, 1951

Archiminolia Iredale, 1929

(type species *Monilea oleacea* Hedley & Petterd, 1906)

239. *oleacea* Hedley & Petterd, 1906. Rec. Aust. Mus. VI, p. 215, pl. XXXVII, f. 1 (*Monilea*). Off Sydney, NSW, 300 fms.; Cotton, 1959. S. Aust. Moll., p. 103-4, f. 47.

240. sp. '*Archiminolia*' sp. 1. Stn. 25 HMAS *Diamantina*.

Spectamen Iredale, 1924

(type species *Trochus philippensis* Watson, 1881)

241. *bellulum* Angas, 1869. Proc. Zool. Soc. Lond. 1869, p. 48, pl. II, f. 11 (*Minolia*). Broken Bay, NSW; Iredale, 1929. Rec. Aust. Mus. 17, p. 168, pl. XXXIX, f. 1; = *dianthus* Fischer, 1879. Coq. Viv., p. 396, pl. CXVIII, f. 2 (*Trochus*). Brisbane Water, NSW.

242. *epitheca* Iredale, 1929. Rec. Aust. Mus. 17, p. 168, pl. XXXIX, f. 8 (*Spectamen*). Twofold Bay, NSW, 24 fms.

243. *marsus* Cotton & Godfrey, 1938. Rec. SA Mus. 6, p. 201, f. 11 (*Spectamen*). Beachport, SA, 40 fms; Cotton, 1959. S. Aust. Moll., p. 192-3, f. 120; No shells found - identity uncertain.

244. *philippense* Watson, 1881. Chall. Exped. XV, p. 73, pl. VI, f. 10 (*Trochus*). Port Phillip, Vic.; Iredale, 1924. Proc. Linn. Soc. NSW XLIX, pl. XXXV.

245. sp. '*Spectamen*' sp. 1. Approx. 150 ml N. of Cape Leveque, WA, 14o12'S, 123o02'E, 194 m.

246. sp. '*Spectamen*' sp. 3. NE of Lady Musgrave Is., Qld., 365 m, 23o38.8'S, 152o45.5'E. *Globigerina* mud/siliceous sponge.

247. sp. '*Spectamen*' sp. 4. Off Newcastle, NSW, 33o06.2'E, 156o09.3'E, 154-164 m.

248. sp. '*Spectamen*' sp. 5. W. of Bunbury, WA, 33o03'S, 144o44'E, 156 m.

249. sp. '*Spectamen*' sp. 6. 72 n. ml NNW of Dampier, WA, 110 m., 19o28.9'S, 116o29.4'E.

250. sp. '*Spectamen*' sp. 7. E. of Lady Elliot Is., Qld., 531-476 m, 24o00'S, 153o06.5'E, fine grey ooze/sand.

Microgaza Dall, 1881

(type species *Microgaza rotella* Dall, 1881)

251. sp. '*Microgaza*' sp. 1. NE of Lady Elliot Is., Qld., 150 m, 24o03.7'S, 152o49.4'E.

Minolops Iredale, 1929

(type species *Minolia pulcherrima* Angas, 1869)

252. *cincta* Cotton and Godfrey, 1938. Rec. SA Mus. 6, p. 200-1, pl. 17, f. 9 (*Ethminolia*). Leven's Beach, Spencer Gulf, SA; Cotton, 1959. S. Aust. Moll., p. 194, f. 121.

253. *cinerea* Preston, 1909. Proc. Mal. Soc. Lond. 8, p. 378, text. fig (*Minolia*). North Queensland; No shells found - identity uncertain.

254. *corallina* Cotton and Godfrey, 1935. SA Nat. 16, p. 35, text fig. (*Minolops*). Gulf St. Vincent, SA; Cotton, 1959. South Aust. Moll. Archaeogastropoda, p. 195, pl. 122; Cotton, 1959. S. Aust. Moll., p. 194-5, f. 122; No shells found - identity uncertain.

255. *pulcherrima pulcherrima* Angas, 1869. Proc. Zool. Soc. Lond. 1869, p. 48, pl. 2, f. 10 (*Minolia*). Broken Bay, NSW.

256. *pulcherrima emendata* Iredale, 1924. Proc. Linn. Soc. NSW 49, p. 229, pl. 35, f. 12 (*Minolia*). Twofold Bay, NSW.

257. *gertruda* Iredale, 1936. Rec. Aust. Mus. 19, p. 285, pl. 21, f. 11 (*Minolops*). Off Cape Hawke, NSW, 45-50 fms. Possibly synonymous with *M. arata*.

258. *arata* Hedley, 1903. Mem. Aust. Mus. 4, p. 33, f. 65 (*Minolia*). Off Botany Bay, NSW, 50-52 fms.

259. *rosulenta* Watson, 1886. Rep. Sci. Res. Chall. Zool. 15, p. 136, pl. 8, f. 12 (*Solariella* (*Torinia*)). Off Port Jackson, NSW, 35 fms. Possibly synonymous with *M. pulcherrima*.

260. sp. '*Minolops*' sp. 2. Off S. end of Fraser Island, Qld., 210-219 m. 25o58.8'S, 153o51'E.

261. sp. '*Minolops*' sp. 3. SE of Clarence River, NSW, 2330 hrs, 29o41-32'S, 153o45-47'E, 405 m.

262. sp. '*Minolops*' sp. 4. ca. 170 ml. NW Port Hedland, WA, 19o13'S, 116o06'E, 271 m.

263. sp. '*Minolops*' sp. 5. D'Anville Bay, Cape Carnot, SA, 34o55'S, 135o37'E, stone washings, very exposed rocky shore, low tide.

Solariella S. Wood, 1842

(type species *Solariella maculata* Wood, 1842)

264. *zacalloides* Schepman, 1908. Siboga Exped., p. 48, pl. III, f. 6 (*Solariella*); New record for Australia. S. of Rowley Shoals, WA, 266 m.

265. sp. '*Solariella*' sp. 1. ca. 190 ml. NW of Port Hedland, WA, 19o25'S, 115o51'E, 256 m.

Solariella (*Ethaliopsis*) Schepman, 1908

(type species *Solariella* (*Ethaliopsis*) *callomphala* Schepman, 1908)

266. *callomphala* Schepman, 1908. Siboga Exped., p. 52-3, pl. IV, f. 1, 1a, pl. IX, f. 9 (*Solariella* (*Ethaliopsis*)). Western entrance of Samau Strait, 390 m., coarse coral sand with small stones; New record for Australia. ca. 190 ml NW of Port Hedland, WA, 19o25'S, 115o51'E, 256 m.

Subfamily Halistylinae Keen, 1958

Charisma Hedley, 1915

(type species *Charisma compacta* Hedley, 1915)

267. *arenacea* Pritchard and Gatliff, 1901. Proc. Roy. Soc. Vic. 14, p. 181, pl. IX, f. 3 (*Leptothyra*). Off Rhyll, Philip Island, Vic., 5 - 6 fms.

268. *carinata* Verco, 1907. Trans. Roy. Soc. SA 32, p. 197 (*Leptothyra*). Backstairs Passage, SA, 20 fms; Verco, 1906. Trans Roy. Soc. SA 31, p. 346, pl. XXIX, f. 8 (No description).

269. *compacta* Hedley, 1915. Proc. Linn. Soc. NSW 39, p. 712, pl. 81, f. 49 (*Charisma*). 100 fms NE of Port Macquarie; Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, pl. 7, f. 2. shell + radula.

270. *josephi* Tenison-Woods, 1877. Proc. Roy. Soc. Tas. 1876, p. 147 (*Cyclostrema*). Blackman's Bay; Tate and May, 1901. Proc. Linn. Soc. NSW 26, p. 400, text fig. 10; Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, pl. 7, f. 3.

271. *latebrosa* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 493, pl. 16, f. 11 (*Liotia*). Masthead Is., Qld., 17 - 20 fms.

Botelloides Strand, 1928

(type species *Onoba bassiana* Hedley, 1915)

272. *bassianus bassianus* Hedley, 1911. Zool. (biol.) Results Fish. Exped. 'Endeavour' 2, p. 108, pl. 19, f. 25 (*Onoba*). Off Devonport, Tasmania; Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 303, pl. 1, f. 1, 2, 7, 8. radula, pl. 3, f. 1, 2, pl. 4, f. 4, 5. shell; Hickman and McLean, 1990. Nat Hist. Mus. LA Council Science Series No. 35, p. 121, f. B-E. radula.

273. *borda borda* Cotton, 1944. Trans. Roy. Soc. SA 68, p. 298, pl. 16, f. 6 (*Botelloides*). Off Cape Borda, SA, 55 fms. (101 m.). Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 307, f. 1c.

274. *chrysalidus chrysalidus* Chapman and Gabriel, 1914. Proc. Roy. Soc. Vic. 5, p. 322, pl. 28, f. 32-33 (*Rissoa* (*Onoba*)). Pliocene (Kalimnan) Mallee Bore No. 9, 254-256 feet (77.4-78m.); Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 309, f. 1B, pl. 6, f. 6, 7. recent South Australia and Western Australia.

275. *chrysalidus kendricki* Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 310, pl. 6, f. 1-5 (*Botelloides*). Woodman's Point, Cockburn Sound, WA.

276. *glomerosus* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 495, pl. 17, f. 23 (*Onoba*). Masthead Island, Qld., 31-77 m.; Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 305, pl. 2, f. 6, pl. 5, f. 1-4, pl. 7, f. 1. shell + radula.

277. *ludbrookae recens* Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, p. 313, pl. 7, f. 8 (*Botelloides*). Point Peron, S. of Perth, WA, on exposed SW side in shell sand at 3.5 m.

278. *sulcatus sulcatus* Cotton, 1944. Trans Roy. Soc. SA 68, p. 296, pl. 16, f. 5 (*Lironoba*). Off Cape Borda, SA, 62 fms. (113 m.); Ponder, 1985. Spec. Publ. S. Aust. Dept. Mines and Energy 5, f. 1A, pl. 4, f. 3. shell + radula.

Subfamily Umboniinae H. & A. Adams, 1854

Tribe Monileini Hickman and McLean, 1990

Monilea Swainson, 1840

(type species *Trochus calliferus* Lamarck, 1822)

279. *turbinata* Tenison-Woods, 1877. Proc. Roy. Soc. Tas. 1876, p. 145 (Monilea). North Tasmania; Hedley, 1902. Proc. Roy. Soc. Tas. 1902, p. 77; No shells found - identity uncertain.

280. *belcheri* Philippi, 1849. Zeit. f. Malak. 1849, p. 148 (Trochus); Hedley, 1923. Proc. Linn. Soc. NSW XLVIII, p. 308. Rocky-Isle off Cape Flattery, Eagle Island and Lizard Island; Pilsbry, 1889. Man. Conch. X, p. 250, pl. 61, f. 3, 4.

281. *callifera* Lamarck, 1822. An. s. Vert. 7, p. 27 (Trochus); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 35, pl. 9, f. 5; = *lentiginosa* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 188 (Monilea). Island of Panay, 7 fms.; = *dividua* Iredale, 1927. Aust. Zool. 5, p. 340, pl. XXXVII, f. 10 (Talopia). North Qld., from Daintree River mouth; = *morti* Iredale, 1927. Aust. Zool. 5, p. 339-40, pl. XXXVII, f. 9 (Talopia). Sydney Harbour, NSW; = *corrugata* A. Adams, 1854 (non Koch, 1843). Proc. Zool. Soc. Lond. 1854, p. 41 (Monilea); = *corrugata* Koch, 1843. Abb. Besch., p. 67, t. 2, f. 7 (Trochus); ? = *rigata* Philippi, 1848. Zeit. f. Malak. 1848, p. 124 (Trochus); Pilsbry, 1889. Man. Conch. XI, p. 251, pl. 41, f. 32, 33. Adelaide, Australia; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 129, f. A-C. animal, p. 130, f. B. *radula*.

282. *ornatissima* Schepman, 1908. Siboga Exped., p. 46-7, pl. III, f. 4, 4a, pl. IX, f. 6 (Minolia). Amboina, 54 m; New record for Australia. W. of Hayman Is., Qld., 33 m, 20°03'S, 148°50'E, grey muddy sand.

283. *rosea* Tenison-Woods, 1876. Proc. Roy. Soc. Tasm. 1875, p. 154 (Monilea); No shells found - identity uncertain.

284. *simulans* Smith, 1899. Proc. Mal. Soc. Lond. 3, p. 314, f. III (Monilea). Macclefield Bank, China Sea, 30 - 50 fms; Sykes, 1899. Proc. Mal. Soc. Lond. 3, p. 80. North West Australia; Hedley, 1916. J. Roy. Soc. WA 1, p. 180; Yen, 1942. Proc. Mal. Soc. Lond. 24, p. 180, pl. 12, f. 262; Previously reported as not Australian. 52 n. ml NNE of Port Hedland, WA, 36-37 m., 19°30.9'-28.2'S, 118°49.2'-55.4'E, sand.

285. *solandri* Philippi, 1851. Martini-Chemnitz Conch. Cab. Ed. II, Trochus, p. 180, pl. 28, f. 8 (Trochus). West Coast of New Holland; Pilsbry, 1889. Man. Conch. XI, p. 252, pl. 61, f. 10; = *crenulata* Menke, 1843. Moll. Nov. Holl., p. 14 (Monodonta). Western Coast; = *plumbea* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 188 (Monilea). Type loc?; Not Australian.

286. *unicarinata* Fischer, 1879. J. d. Conch. XXVII, p. 23 (Trochus). Australia; Pilsbry, 1889. Man. Conch. XI, p. 262; Identity uncertain.

Camitia Gray, 1847

(type *Trochus pulcherrimus* A. Adams, 1858)

287. *rotellina* Gould, 1860. Proc. Bost. Soc. Nat. Hist. III, p. 180 (Trochus (Monodonta)); Hedley, 1908. Proc. Linn. Soc. NSW 33, p. 467. Masthead Is., Qld.; Habe, 1964. Shells of the W. Pacific 2, p. 16, pl. 6, f. 6.

Conotalopia Iredale, 1929

(type species *Minolia henniana* Melvill, 1891)

288. *glaphyrella* Melvill & Standen, 1895. J. of Conch. 1895, p. 125, pl. III, f. 18 (*Minolia*). Lifu; New record for Australia. Palm Is., N. Qld.

289. *henniana* Melvill, 1891. J. of Conch. 6 (12), p. 410, pl. 11, f. 14 (*Minolia*). Magnetic Island, Qld.; Hedley, 1912. Rec. Aust. Mus. VIII, p. 137, pl. XLI, f. 13-15; Herbert, 1992. Ann. Nat. Mus. 33, p. 454. Holotype figured.

290. *tropicalis* Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 490, pl. XVI, f. 12 (*Monilea*). Masthead Is., Qld.

291. sp. '*Conotalopia*' sp. 1. E. Gulf of Carpentaria, Qld., 12°30'S, 141°21'E, 42 m.

Ethalia H. & A. Adams, 1854

(type species *Umbonium guamense* Quoy & Gaimard, 1834)

292. *guamensis* Quoy & Gaimard, 1834. Voy. Astrolabe Zool. Vol. III, p. 267, pl. 61, f. 32, 33 (*Rotella*). Guam; Abbott and Dance, 1986. Compendium of Seashells, p. 43; Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 479. Masthead Is., Qld.; Hickman, 1984. Malacologia 25, p. 157, f. A. *radula*.

293. *rhodomphala* Souverbie, 1875. J. d. Conch. 1875, p. 36, t. 4, f. 3 (*Ethalia*); Pilsbry, 1889. Man. Conch. XI, p. 262, pl. 41, f. 22-24; = *rotellaeformis* Philippi, 1846. Conch. Cab. P. 302, pl. 44, f. 2 (*Trochus*); New record for Australia. Lady Musgrave Is., Qld., 23°54'S, 152°25'E, dredged in lagoon.

Ethaliella Pilsbry, 1905

(type species *Ethalia floccata* Sowerby, 1903)

294. *floccata* Sowerby, 1903. Ann. Mag. Nat. Hist. Ser. 7, v. 12, p. 500 (*Ethalia*); Habe, 1964. Shells of W. Pacific, p. 16-17, pl. 6, f. 11; New record for Australia. NW Is., Qld.

295. *pulchella* A. Adams, 1854. Proc. Zool. Soc. Lond. 1854, p. 190 (*Isanda*); Hedley, 1907. Proc. Linn. Soc. NSW 32, p. 479 (*Ethalia*). Masthead Is., Qld.; Pilsbry, 1889. Man. Conch. XI, p. 460, pl. 59, f. 59-63.

Ethminolia Iredale, 1924

(type species *Ethminolia probabilis* Iredale, 1924)

296. *elveri* Cotton & Godfrey, 1938. Rec. SA Mus. 6, p. 200, f. 10 (*Ethminolia*). Gulf of Vincent, SA, 7 fms.; Cotton, 1959. S. Aust. Moll., p. 100-101, f. 45.

297. *probabilis* Iredale, 1924. Proc. Linn. Soc. NSW XLIX, p. 228, pl. XXXV, f. 7-9 (*Ethminolia*). Twofold Bay, NSW; = *mayi* Kershaw, 1955. Proc. Roy. Soc. Tas. LXXXIX, p. 291 (*Ethminolia*); Hope Macpherson, 1958. Ill. Index Tasm. Shells, Rev. Ed. p. 22, pl. 18, f. 21; ? = *angulata* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 190 (*Margarita*). Sandwich Islands; ? = *producta* Fischer, 1879. Coq. Viv., p. 395 (*Trochus*).

298. *vitiliginea* Menke, 1843. Moll. Nov. Holl., p. 18 (*Trochus*). Western Coast; Angas, 1867. Proc. Zool. Soc. Lond. 1867, p. 217. Middle Harbour; Wells and Bryce, 1985. Seashells of WA, p. 44, f. 82; Herbert, 1992. Ann. Nat. Mus. 33, p. 454. Holotype figured; = *tasmanica* Tenison-Woods, 1877. Proc. Roy. Soc. Tas. 1876, p. 146 (*Ethalia*); Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No.

35, p. 28, f. 1, radula.

Isanda H. & A. Adams, 1854

(type species *Isanda coronata* A. Adams, 1854)

299. *coronata* A. Adams, 1854. Proc. Zool. Soc. Lond. 1853, p. 189, pl. 27, f. 5 (*Isanda*). South Australia; Smith, 1884. Rept. Zool. Coll. Alert, p. 71, pl. V, f. P - P2. Port Curtis and Friday Is., Torres Straits; = *lepada* A. Adams, 1854. Proc. Zool. Soc. Lond. 1853, p. 190 (*Isanda*). Australia.

Parminolia Iredale, 1929

(type species *Minolia agapeta* Melvill & Standen, 1896)

300. *apicina* Gould, 1842. Otia. Conch., 1842, p. 154 (*Monilea*). Port Jackson (error) = Coral Sea; = *agapeta* Melvill & Standen, 1896. J. of. Conch. VIII, p. 312, pl. XI, f. 77 (*Minolia*). Loyalty Islands.

Rossiteria Brazier, 1895

(type species *Trochus nucleus* Philippi, 1849)

301. *nuclea* Philippi, 1849. Zeit. f. Malak., p. 171 (*Trochus*); Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 35-6, pl. 9, f. 6.

Talopena Iredale, 1918

(type species *Monilea incerta* Iredale, 1918)

302. *discerna* Iredale, 1937. Aust. Zool. 8, p. 245-6 (*Talopena*). Elisabeth Reef. No shells found - identity uncertain.

303. *gloriola* Iredale, 1929. Rec. Aust. Mus. 17, p. 110, pl. 39, f. 7 (*Talopena*). Manly, NSW; Herbert, 1992. Ann. Nat. Mus. 33, p. 454. Holotype figured.

304. *vernica* Gould, 1861. Proc. Bost. Soc. Nat. Hist. VIII, p. 16 (*Monilea*). Ousima; Herbert, 1992. Ann. Nat. Mus. 33, p. 454. Holotype figured; = *lifuana* Fischer, 1878. J. d. Conch. XXVI, p. 63 (*Trochus* (*Monilea*)); Hedley, 1907. Proc. Linn. Soc. NSW XXXII, p. 479. Masthead Is., Qld.; Habe, 1964. Indo-Pacific Marine Shells, p. 17, pl. 6, f. 14; Cernohorsky, 1978. Trop. Pac. Mar. Shells, p. 36, pl. 9, f. 7.

305. sp. '*Talopena*' sp. 1. 7 mls off Long Is., Onslow, WA, 28 fms.

Vanitrochus Iredale, 1929

(type species *Solariella* (*Conotrochus*) *tragema* Melvill & Standen, 1896)

306. *semiustus* Fischer, 1879. J. d. Conch. XXVII, p. 23 (*Trochus*). New Caledonia; Iredale, 1929. Mem. Qld. Mus. 9, p. 272. Michaelmas Cay, Qld.; Identity uncertain.

307. *tragema* Melvill & Standen, 1896. J. of Conch. VIII, p. 313, pl. XI, f. 78 (*Solariella* (*Conotrochus*)). Lifu, New Caledonia; Iredale, 1929. Mem. Qld. Mus. 9, p. 272. Michaelmas Cay, Qld.

308. sp. '*Vanitrochus*' sp. 1. Denham, Shark Bay, WA.

Tribe Bankiviini Hickman and McLean, 1990

Bankivia Krauss, 1848

(type species *Phasianella fasciata* Menke, 1830)

309. *fasciata* Menke, 1830. Synops. Meth. Moll. p. 141 (*Phasianella*). Cape of Good Hope (error = South Australia); Macpherson and Gabriel, 1962. Mar. Moll. Vict., p. 66-67, f. 92; Shirley, 1911. Proc. Roy. Soc. Qld. XXIII, p. 96. Moreton Bay, Qld.; = *varians* Beck, 1848. Die Südafrik. Moll. p. 105, pl. 6, f. 2 (*Bankivia*); = *purpurascens* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 171 (*Bankivia*); = *major* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 171 (*Bankivia*). Australia; = *undatella* Menke, 1830. Synops. Meth. Moll., p. 141 (*Phasianella*); = *nitida* A. Adams, 1853. Proc. Zool. Soc. Lond. 1851, p. 172 (*Bankivia*). Australia; Hickman and McLean, 1990. Nat. Hist. Mus. LA Council Science Series No. 35, p. 131, f. A. living animal, p. 133, f. A, B, E. radula.

310. sp. '*Bankivia*' sp. 1. 85 n. ml. NNW of Port Hedland, WA, 112 m., 19°00.8'S, 118°01.3'E, sand/silt.

Leiopyrga H. & A. Adams, 1863

(type species *Leiopyrga picturata* H. & A. Adams, 1863)

311. *cingulata* A. Adams, 1863. Proc. Zool. Soc. Lond. 1863, p. 507 (*Leiopyrga*). Port Essington; Hedley, 1912. Proc. Linn. Soc. NSW XXXVIII, p. 218, pl. XVII, f. 48.

312. *lineolaris* Gould, 1861. Otia. Conch. 1862, p. 157 (*Cantharidus*). Sydney, NSW; Iredale, 1924. Proc. Linn. Soc. NSW XLIX, p. 225, pl. XXXVI, f. 17; = *picturata* H. & A. Adams, 1863. Ann. Mag. Nat. Hist. 1863, p. 19 (*Leiopyrga*); Hickman, 1984. Malacologia 25, p. 157, f. B. radula.

313. *octona octona* Tate, 1891. Trans. Roy. Soc. SA 14, p. 260-1, pl. XI, f. 5 (*Leiopyrga*). Royston Head, South Yorke Peninsula; Verco, 1904. Trans. Roy. Soc. SA 28, p. 140. Investigator Strait, St. Vincent Gulf. radula; Cotton, 1959. S. Aust. Moll., p. 112-113, f. 53.

314. *octona problematica* Iredale, 1924. Proc. Linn. Soc. NSW XLIX, p. 225-6, pl. 11, f.5 (*Leiopyrga*). Twofold Bay, NSW.

315. sp. '*Leiopyrga*' sp. 1. Bluff Pt., N. Geraldton, WA.

Tribe Umboniini H. & A. Adams, 1854

Umbonium Link, 1807

(type species *Trochus vestiarius* Linnaeus, 1758)

316. *costatum* (Valenciennes) Kiener, 1839. Coq. Viv. p. 10, pl. 2, f. 5 (*Rotella*); Shirley, 1911. Proc. Roy. Soc. Qld. XXIII, p. 96. Murray Is., Qld.; Springsteen and Leobrera, 1986. Shells of the Philippines, p. 34, pl. 5, f. 2; No shells found - Australian records doubtful.

317. *vestiarius* Linnaeus, 1758. Syst. Nat. Ed. 12, p. 1230 (*Trochus*); Abbott and Dance, 1986. Compendium of Seashells, p. 43; Shirley, 1911. Proc. Roy. Soc. Qld. XXIII, p. 96. Murray Is.; = *australis* Philippi, 1852. Conch. Cab. II, pt. IV, p. 48, pl. 7, f. 21-3 (*Globulus*). Australia; Berry, 1987. Estuar. Coast. Shelf Science 24, p. 711-723. reproductive cycles; Australian records doubtful - often confused with *Ethalia guamensis*.

DISCUSSION

This preliminary list contains 316 Australian species of Trochidae. Of these, 54 are unidentified, 38 names could not be matched with shells or known species outside Australia, 6 species were recognised as not Australian and 13 species had not previously been reported from Australia.

Further work on this family will concentrate on describing undescribed species where possible, and reviewing the status of existing names. It is expected that quite a number of names from this list will be synonymised. It is clear that certain groups within the family are in need of a more detailed revision. These include the Australian species of Prothalotia and the Stomatellinae, especially the genus *Gena*.

Groups in which a large number of unidentified species were found include Calliotropini and Solariellinae. These occur mainly in deep water and the unidentified species were mainly the result of recent trawling activities off the eastern and northern coasts of Australia.

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