

## TYPE SPECIMENS IN THE DEPARTMENT OF MOLLUSCS, WESTERN AUSTRALIAN MUSEUM

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### INTRODUCTION

The mollusc collection of the Western Australian Museum is the repository of type specimens of 157 species of recent molluscs. The majority of the species are gastropods which fall essentially into two categories: the pre-1940 collections of land snails described by Iredale and species named since 1960. Although the collection emphasizes Western Australian species there are some paratypes from other parts of the world. Most notable among these is a collection of 8 North and South American species of the pulmonate family Bulimulidae which were obtained on exchange from Dr Alan Solem of the Field Museum of Natural History, Chicago, U.S.A., in 1974.

The list is in taxonomic order by classes and families (orders in the Opisthobranchia). Within each family species are listed in alphabetical order as they were originally described. The scientific name and authority for the species are given; then the type of specimen in the collection, WAM catalogue number, number of specimens, collection locality (type locality where the specimens came from various areas), the reference to the original description and remarks. The last category includes changes in nomenclature made by later authors.

The type collection was established by Dr B.R. Wilson and Mrs S.M. Slack-Smith. I am indebted to them and to Mrs H. Merrifield for a great deal of assistance in compiling this list.

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PHYLUM MOLLUSCA  
CLASS AMPHINEURA

Family Ischnochitonidae

*Stenochiton longicymba historia* Iredale and Hull, 1924

Holotype: WAM 11657

Number of specimens: 1

Locality: King George Sound, W.A.

Reference: *Aust. Zool.* 3: 285, plate 36, figure 8

Remarks: Iredale and Hull (1927) recognised this as a synonym of *Stenochiton cymodocealis* Ashby, 1918.

*Stenochiton pilsbryanus dilatus* Iredale and Hull, 1924

Holotype: WAM 11658

Number of specimens: 1

Locality: Lucky Bay, 40km east of Esperance, W.A.

Reference: *Aust. Zool.* 3: 287, plate 36, figure 11.

Family Lepidopleuridae

*Lepidopleurus glauerti* Ashby, 1929

Holotype: WAM 12876

Paratype: WAM 12875

Number of specimens: 2

Locality: Rottneest Island, W.A.

Reference: *J. Roy. Soc. West. Aust.* 15: 50-51, figures 14-16.

Family Loricidae

*Kopionella tasmanica* Ashby, 1920

Paratype: WAM 9772

Number of specimens: 1

Locality: D'Entrecasteaux Channel, Tasmania

Reference: *Trans. Roy. Soc. South Aust.* 44: 268, plate 11, figures 1a-c.

Remarks: Regarded as a synonym of *Kopionella matthewsi* Iredale, 1910, by Iredale and Hull (1927).

*Lorica paucipustulosa* Hull, 1923

Holotype: WAM 11659

Number of specimens: 1

Locality: Rabbit Island, King George Sound, W.A.

Reference: *Aust. Zool.* 3: 197, plate 27, figure 3.

Family Acanthochitonidae

*Acanthochiton (Notoplax) subviridis* Torr, 1911

Cotype: WAM 5811

Number of specimens: 1

Locality: Albany, W.A.

Reference: *Trans. Roy. Soc. South Aust.* 25: 104, plate 25, figures 3a-f.

*Acanthochiton spongalis glauerti* Ashby, 1923

Holotype: WAM 10399

Number of specimens: 1

Locality: Cottesloe, Perth, W.A.

Reference: *J. Roy. Soc. West. Aust.* 10: 14, plate i, figure 2

Remarks: Iredale and Hull (1927) considered this a synonym of *Notoplax glauerti* (Ashby, 1923).

*Autochiton virgatus exaggeratus* Iredale and Hull, 1924

Holotype: WAM 11656

Number of specimens: 1

Locality: Albany Harbour, King George Sound, W.A.

Reference: *Aust. Zool.* 3: 284.

*Glyptelasma matthewsi occidentalis* Iredale and Hull, 1925

Holotype: WAM 11660

Number of specimens: 1

Locality: Middleton Beach, King George Sound, W.A.

Reference: *Aust. Zool.* 4: 95, plate 11, figures 18 and 20

*Notoplax rotnnestensis* Ashby, 1929

Holotype: WAM 12885

Paratypes: WAM 12880 to 12884

Number of specimens: 6

Locality: Bathurst Point, Rottnest Island, W.A.

Reference: *J. Roy. Soc. West. Aust.* 15: 47-49, figures 10-13.

### Family Cryptoplacidae

*Cryptoplax striata occidentalis* Iredale and Hull, 1925

Holotype: WAM 11661

Number of specimens: 1

Locality: Quarantine Station, Albany, W.A.

Reference: *Aust. Zool.* 4: 106.

### Family Chitonidae

*Squamopleura carteri* Iredale and Hull, 1926

Holotype: WAM 11662

Number of specimens: 1

Locality: Point Cloates, W.A.

Reference: *Aust. Zool.* 4: 260, plate 37, figures 18, 20 and 28.

## CLASS GASTROPODA

### SUBCLASS PROSOBRANCHIA

#### Family Phasianellidae

*Leptothyra fugitiva* Hedley, 1911

Cotypes: WAM 7586

Number of specimens: 4

Locality: 180 m depth, 64 km south of Cape Wiles, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia. Part 1. Zoological results of the fishing expedition carried out by the F.I.S. *Endeavour* 1909-1910, part 2: 102-103, plate 18, figures 18-20.

Remarks: Abbott (1974) regarded *Leptothyra* as a synonym of *Homalopoma*.

#### Family Littorinidae

*Nodilittorina australis* (Gray, 1826)

Neotype: WAM 292-70

Number of specimens: 1

Locality: South Mole, Fremantle, W.A.

Reference: *Indo-Pacific Mollusca* 2 (11): 485-487, plates 325, 373 and 374  
Remarks: Rosewater considered the type specimens of Gray to be lost and designated the neotype under ICZN Article 75, 196.

#### Family Hydrobiidae

*Hydrorissoa hospitalis* Brandt, 1968

Paratypes: WAM 365-71

Number of specimens: 5

Locality: Mekong River at Khong, Laos

Reference: *Arch. Moll.* 98: 244-245, plates 9 and 32.

*Pachydrobia bavayi* Brand, 1970

Paratypes: WAM 368-71

Number of specimens: 3

Locality: Mekong River at Kratie, Cambodia

Reference: *Arch. Moll.* 100: 192-193, plate 13, figure 11.

#### Family Truncatellidae

*Coxiella molesta* Iredale, 1943

Syntypes: WAM 51-57

Number of specimens: 6

Locality: Port Phillip, Victoria

Reference: *Aust. Zool.* 10: 211.

*Coxiella glabra* Macpherson, 1957

Holotype: WAM 370-72

Number of specimens: 1

Locality: Morawa, W.A.

Reference: *West. Aust. Nat.* 5 (7): 199.

*Coxiella glauerti* Macpherson, 1957

Holotype: WAM 258-48

Number of specimens: 1

Locality: Israelite Bay, W.A.

Reference: *West. Aust. Nat.* 5 (7): 194-195, figure 2

*Coxielladda exposita* Iredale, 1943

Syntypes: WAM 52-57

Number of specimens: 8

Locality: Cranbrook, inland from Albany, W.A.

Reference: *Aust. Zool.* 10: 211

### Family Bulimidae

*Gabbia australis suspecta* Iredale, 1944

Paratypes: WAM 2229-69

Number of specimens: 23

Locality: Armidmle, N.S.W.

Reference: *Aust. Nat.* 11: 116.

Remarks: Wenz (1938) classified *Gabbia* as a subgenus of *Bulimus*.

*Hydrobioides gracilis* Brandt, 1968

Paratypes: WAM 366-71

Number of specimens: 8

Locality: Mekong River at Bamdan, Thailand

Reference: *Arch. Moll.* 98: 242-243, plate 9

Remarks: Wenz (1938) classified *Hydrobioides* as a subgenus of *Bulimus*.

### Family Rissoidae

*Rissoa lockyeri* Hedley, 1911

Cotypes: WAM 7587

Number of specimens: 3

Locality: 180 m depth, 64 km south of Cape Wiles, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia. Part 1. Zoological results of the fishing expedition carried out by the F.I.S. *Endeavour* 1909-1910, part 2: 103, plate 18, figure 22.

*Rissoa verconiana* Hedley, 1911

Cotypes: WAM 7590

Number of specimens: 3

Locality: 180 m depth, 65 km south of Cape Wiles, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia. Part 1. Zoological results of the fishing expedition carried out by the F.I.S. *Endeavour* 1909-1910, part 2: 89-114, plates 17-20.

### Family Assimineidae

*Assiminea microscopea* Brandt, 1968

Paratypes: WAM 367-67

Number of specimens: 49

Locality: Glaeng Harbour, Rayon Province, Thailand  
Reference: *Arch. Moll.* 98: 263, plates 10 and 50

Family Turritellidae

*Archimediella dirkhartogensis* Garrard, 1972

Holotype: WAM 834-70

Paratypes: WAM N4388      WAM 143-69  
                  WAM 121-69      WAM 145-69  
                  WAM 123-69      WAM 346-69  
                  WAM 124-69      WAM 835-70  
                  WAM 134-69      WAM 836-70  
                  WAM 135-69      WAM 837-70  
                  WAM 139-69      WAM 838-70  
                  WAM 141-69      WAM 190-71  
                  WAM 142-69

Locality: 73 m depth, north of Dirk Hartog Island, Shark Bay, W.A.  
Reference: *J. malac. Soc. Aust.* 2 (3): 273, plate 26, figure 1.

*Calcospira (Acutospira) yarramundi* Garrard, 1972

Paratypes: WAM 231-72

Number of specimens: 3

Locality: 114-123 m depth, northwest of Cape Moreton, Queensland  
Reference: *J. malac. Soc. Aust.* 2 (3): 298, plate 27, figure 10.

*Colpospira (Colpospira) bundilla* Garrard, 1972

Paratypes: WAM 234-72

Number of specimens: 3

Locality: 114 to 123 m depth, northeast of Cape Moreton, Queensland  
Reference: *J. malac. Soc. Aust.* 2 (3): 278, plate 26, figure 17.

*Colpospira (Colpospira) moretonensis* Garrard, 1972

Paratypes: WAM 232-72

Number of specimens: 2

Locality: 76 m depth off Moreton Bay, Queensland.

Reference: *J. malac. Soc. Aust.* 2 (3): 286, plate 26, figure 13.

*Colpospira (Colpospira) translucida* Garrard, 1972

Paratype: WAM 230-72

Number of specimens: 1

Locality: 79 to 140 m depth, southwest of Eucla, W.A.

Reference: *J. malac. Soc. Aust.* 2 (3): 288, plate 26, figure 16.

*Colpospira (Colpospira) wollumbi* Garrard, 1972

Paratypes: WAM 233-72

Number of specimens: 3

Locality: 114 to 123 m depth, northeast of Cape Moreton, Queensland.

Reference: *J. malac. Soc. Aust.* 2 (3): 289, plate 27, figure 1.

*Haustator (Kurosoia) leeuwinsis* Garrard, 1972

Paratype: WAM 146-71

Number of specimens: 1

Locality: 126 to 130 m depth, west of Dongara, W.A.

Reference: *J. malac. Soc. Aust.* 2 (3): 319-320, plate 29, figure 6.

Family Cerithiidae

*Diala polyaulax* Tomlin, 1923

Paratypes: WAM 25-73

Number of specimens: 2

Locality: South Coast, Isipingo, Natal

Reference: *J. Conch.* 17: 49, figure 3.

*Pseudovertagus peroni* Wilson, 1975

Holotype: WAM 324-73

Number of specimens: 1

Locality: Point Peron, W.A.

Reference: *Rec. West. Aust. Mus.* 3 (4): 327-334, plate 1, figures 1-4.

Family Cerithiopsidae

*Cerithiopsis dannevigii* Hedley, 1911

Cotype: WAM 7589

Number of specimens: 1

Locality: 180 m depth, 64 km south of Cape Wiles, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia. Part 1. Zoological results of the fishing expedition carried out by F.I.S. *Endeavour* 1909-1910, part 2: 109, plate 19, figures 26 and 27

Family Strombidae

*Strombus wilsoni* Abbott, 1968

Paratypes: WAM 838-66

WAM 840-66

WAM 851-66



Number of specimens: 4

Locality: Dampier Archipelago, W.A.

Reference: *Indo-Pacific Mollusca* 6 (7): 455, plate 328, figures 1-3.

### Family Cypraeidae

*Cribraria chinensis whitworthi* C. Cate, 1964

Holotype: WAM 33-64

Number of specimens: 1

Locality: Vlaming Head, North West Cape, W.A.

Reference: *Veliger* 7 (1): 20-21, plate 5, figures 2a and 2b.

Remarks: Wilson and Gillett (1971) referred this subspecies to the genus *Cypraea*.

*Cypraea kingae* Rehder and Wilson, 1975

Paratypes: WAM 220-222, 224-69

Number of specimens: 4 + 2 radulae

Locality: Pitcairn Island

Reference: *Smithsonian Contr. Zool.* 203: 2-6, figures 1-3.

*Cypraea (Lycina) leviathan gedlingae* C. Cate, 1968

Holotype: WAM 334-67

Number of specimens: 1

Locality: Five Mile Beach, North West Cape, W.A.

Reference: *Veliger* 10 (3): 227, plate 26, figure 28.

*Cypraea mauiensis* Burgess, 1967

Paratypes: WAM 2585-67

Number of specimens: 2

Locality: Olawalu, Maui, Hawaii

Reference: *Nautilus* 81.

*Mauritia arabica brunnescens* C. Cate, 1964

Holotype: WAM 32-64

Number of specimens: 1

Locality: Broome, W.A.

Reference: *Veliger* 7 (1): 24-26, plate 5, figures 3a and 3b.

Remarks: Wilson and Gillett (1971) referred this subspecies to the genus *Cypraea* and did not feel subspecies differentiation was warranted.

*Palmadusta saulae crakei* C. Cate, 1968

Holotype: WAM 1321-67

Number of specimens: 1

Locality: Quondong, 56 km north of Broome, W.A.

Reference: *Veliger* 10 (3): 212-232, plates 21-34, 5 maps

Remarks: Wilson and Gillett (1971) referred this subspecies to the genus *Cypraea*.

*Zoila friendii jeaniana* C. Cate, 1968

Holotype: WAM 1320-67

Number of specimens: 1

Locality: Koks Island, off Carnarvon, W.A.

Reference: *Veliger* 10 (3): 212-232, plates 21-34.

Remarks: Wilson and Gillett (1971) regarded *Zoila* as a subgenus of *Cypraea* and they expressed the opinion that the "subspecies" name should not be used. It is a synonym of *C. friendii friendii*.

#### Family Amphiperatidae

*Globovula cottesloensis* C. Cate, 1973

Holotype: WAM 69-70

Number of specimens: 1

Locality: Cottesloe Beach, Perth, W.A.

Reference: *Veliger* 15 (Supplement): 23, figure 42.

*Globovula spatiosa* C. Cate, 1973

Holotype: WAM 68-70

Number of specimens: 1

Locality: Red Bluff, 128 km north of Carnarvon, W.A.

Reference: *Veliger* 15 (Supplement): 22, figure 40.

*Margovula aboriginea* C. Cate, 1973

Holotype: WAM 67-70

Number of specimens: 1

Locality: Gerialia, Exmouth Gulf, W.A.

Reference: *Veliger* 15 (Supplement): 20, figure 34.

*Xandarovula figgisae* C. Cate, 1973

Holotype: WAM 1454-70

Number of specimens: 1

Locality: North West Cape, W.A.

Reference: *Veliger* 15 (Supplement): 36, figure 70.

#### Family Cassidae

*Cassidea stadialis* Hedley, 1914

Cotypes: WAM 8786

Number of specimens: 2

Locality: 90 to 180 m depth near Cape Howe, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia 2 (2): 72-73, plate 10, figure 4.

*Phalium whitworthi* Abbott, 1968

Paratypes: WAM 5115-68

WAM 130-66

Number of specimens: 2

Locality: West Wallaby Island, Houtmans Abrolhos, W.A.

Reference: *Indo-Pacific Mollusca* 2 (9): 179-181, plates 165-168.

### Family Muricidae

*Chicoreus venustus* Rehder and Wilson, 1975

Paratypes: WAM 138, 139, 140, 142, 143-72

WAM 385 to 395-72

Number of specimens: 18 + soft parts

Locality: 65-70 m depth southwest of Tahuata Island, Marquesas

Reference: *Smithsonian Contr. Zool.* 203: 7-10, figures 4 and 5.

*Dermomurex (Viator) antonius* Vokes, 1974

Holotype: WAM 3646-67

Paratype: WAM 2834-67

Number of specimens: 2

Locality: Shell Island, Dampier Archipelago, W.A.

Reference: *J. malac. Soc. Aust.* 3 (1): 4, plate 1, figures 1 and 2.

*Haustellum (Tritonohaustellum) wilsoni* Old and d'Attilio, 1971

Holotype: WAM N3981

Paratypes: WAM N2148      WAM N3955

WAM N2641      WAM N5366

WAM N2987      WAM N5367

Number of specimens: 7

Locality: Off Jurien Bay, W.A.

Reference: *Veliger* 13 (4): 316-318, figures 1-3.

*Pterynotus (Pterochelus) westralis* Ponder and Wilson, 1973

Holotype: WAM 438-72

Paratypes: WAM 439-72; WAM 440-72

Number of specimens: 4

Locality: 144 to 162 m depth, northwest of Rottneest Island, W.A.

Reference: *J. malac. Soc. Aust.* 2 (4): 395-399, plate 39, figures 1-3.

### Family Pyrenidae

*Anachis (Costoanachis) fayae* Keen, 1971

Paratypes: WAM 371-72

Number of specimens: 2

Locality: Playa Caracol, Nuevo Guaymas, Sonora, Mexico

Reference: *Seashells of Tropical West America*, 2nd edition, Stanford Univ. Press, p. 579.

### Family Fascioliariidae

*Fusinus galathea bountyi* Rehder and Wilson, 1975

Paratype: WAM 135-72

Number of specimens: 1 + radula + soft parts

Locality: Pitcairn Island

Reference: *Smithsonian Contr. Zool.* 203: 10-13, figures 6 and 7.

### Family Mitridae

*Mitra (Nebularia) sowerbyi kingae* Cernohorsky, 1972

Holotype: WAM 1222-76

Number of specimens: 1

Locality: 34 to 40 m depth, off the east coast of Wasir Island, West Wokam, Aru Island, Moluccas, Indonesia

Reference: *Rec. Auckland Inst. and Mus.* 9: 195-196, figures 1, 2 and 6

*Pterygia barrywilsoni* J.M. Cate, 1968

Holotype: WAM 334-68

Number of specimens: 1

Locality: Nightcliffe, Darwin, N.T.

Reference: *Veliger* 11 (2): 86, plate 11, figures 2a and 2b

Remarks: Cernohorsky (pers. comm. to B.R. Wilson, 1969) regarded this as a synonym of *Scabricola nympha* (Reeve, 1845).

*Pterygia gilbertsoni* J.M. Cate, 1968

Holotype: WAM 1129-67

Number of specimens: 1

Locality: 8 km west of the northwest end of Rottnest Island, W.A.

Reference: *Veliger* 11 (2): 85-86, plate 11, figures 1a-d.

*Scabricola (Scabricola) backae* Cernohorsky, 1973

Holotype: WAM 14-72

Paratypes: WAM 233-70; 14-72; 472-72

Number of specimens: 6

Locality: *Rec. Auckland Inst. and Mus.* 10: 133-135, figures 1-5.

*Scabricola (Swainsonia) ocellata ekeræ*

Cernohorsky, 1973

Holotype: WAM 5014-68

Paratypes: WAM 5014-68

WAM 228-70

Number of specimens: 6

Locality: Southwest of Pt. Cloates, W.A.

Reference: *Rec. Auckland Inst. and Mus.* 10: 135-137, figures 6-11.

*Vexillum (Pusia) hansenæ* Cernohorsky, 1973

Holotype: WAM 13-72

Paratypes: WAM N3569

WAM 13-72

Number of specimens: 10

Locality: Sarge Bay, Augusta, W.A.

Reference: *Rec. Auckland Inst. and Mus.* 10: 138, figures 13-16.

*Vexillum (Pusia) marrowi* Cernohorsky, 1973

Holotype: WAM N408

Paratypes:	WAM 1585	WAM 4457
	WAM 1757	WAM 1112-67
	WAM 2591	WAM 150 to 152-70
	WAM 2827	WAM 171-70
	WAM 3569	WAM 230-70
	WAM 4159	WAM 238-70
	WAM 246-70	WAM 349-70

Number of specimens: 71

Type locality: Yanchep reef flat, Yanchep, W.A.

Reference: *Rec. Auckland Inst. and Mus.* 10: 140-142, figures 19-23.

*Vexillum sitangkaianum* J.M. Cate, 1968

Holotype: WAM 1230-67

Paratypes: WAM 1230-67

Number of specimens: 14

Locality: 16 to 23 m depth, south lagoon, Sibutu, Sulu Archipelago

Reference: *Veliger* 11 (2): 86-87, plate 11, figures 3a and 3b

Remarks: Cernohorsky (pers. comm. to B.R. Wilson 1969) regarded this as a synonym of *Vexillum vulpecula* (Linneus, 1758)

## Family Harpidae

### *Austroharpa loisae* Rehder, 1973

Holotype: WAM 1784-69

Paratype: WAM 31-64

Number of specimens: 2

Locality: 126 m depth, northwest of Rottneest Island, W.A.

Reference: *Indo-Pacific Mollusca* 3 (16): 264-265, plate 237, figures 3a and b

### *Austroharpa wilsoni* Rehder, 1973

Holotype: WAM 36-70

Paratypes: WAM 125-63

WAM 35-70

WAM 151-72

Number of specimens: 5

Locality: 180 to 185 m depth, northwest of Rottneest Island, W.A.

Reference: *Indo-Pacific Mollusca* 3 (16): 267-268, plate 237, figures 1 and 2

## Family Volutidae

### *Amoria dampieria* Weaver, 1960

Paratypes: WAM 5866

WAM 16-61

Number of specimens: 2

Locality: Off Delambre Island, Dampier Archipelago, W.A.

Reference: *Hawaiian Shell News* 8 (12): 1, 3, figures 5-7.

Remarks: These specimens are listed in the article as "additional paratypes" and thus are really not types at all

### *Amoria diamantina* Wilson, 1972

Holotype: WAM 142-64

Paratypes: WAM N4331      WAM 148-64

WAM N4356      WAM 4685-68

WAM N4454      WAM 626-71

WAM 133-64      WAM 663-71

WAM 141-64      WAM 664-71

WAM 144-64      WAM 665-71

WAM 147-64      WAM 666-71

Number of specimens: 22

- Locality: 144 to 149 m depth, southwest of Rottneest Island, W.A.  
Reference: *J. malac. Soc. Aust.* 2 (3): 340-345, plate 31, figures 1-4.
- Notopeplum annulatum* Wilson, 1972  
Holotype: WAM 132-64  
Paratypes: WAM 134-64; WAM 472-71  
Number of specimens: 3  
Locality: 135 to 140 m depth, west of Rottneest Island, W.A.  
Reference: *J. malac. Soc. Aust.* 2 (3): 354-358, plate 33, figures 1 and 2,  
page 357 figures a, b, d, f, g, h
- Notovoluta baconi* Wilson, 1972  
Holotype: WAM 1565-70  
Paratype: WAM 41-60  
Number of specimens: 2  
Locality: 126 to 144 m depth, west of Wedge Island, W.A.  
Reference: *J. malac. Soc. Aust.* 2 (3): 352-353, figures 1-3.
- Volutoconus capricorneus* Wilson, 1972  
Holotype: WAM 146-64  
Paratype: WAM 774-71  
Number of specimens: 2  
Locality: 128 m depth, west of Pt. Cloates, W.A.  
Reference: *J. malac. Soc. Aust.* 2 (3): 346-347, plate 31, figures 9-12.

#### Family Cancellariidae

- Cancellaria (Merica) melanostoma westralis* Garrard, 1975  
Holotype: WAM 697-74  
Number of specimens: 1  
Locality: Turtle Bay, North West Cape, W.A.  
Reference: *Rec. Aust. Mus.* 30: 5-6, plate 1, figures 2 and 3.
- Cancellaria (Sydaphera) panamuna* Garrard, 1973  
Holotype: WAM 551-71  
Number of specimens: 1  
Locality: 137 m depth, 32 km northwest of Anchor Island, off Onslow,  
W.A.  
Reference: *Rec. Aust. Mus.* 30: 14-15, plate 2, figure 7.
- Fusiaphera dampierensis* Garrard, 1975  
Holotype: WAM 550-71  
Paratype: WAM 434-72  
Number of specimens: 2

Locality: 11 to 13 km north of Delambre Island, Dampier Archipelago, W.A.

Reference: *Rec. Aust. Mus.* **30**: 117-18, plate 2, figure 8.

*Trigonostoma (Trigonophera) diamantina* Garrard, 1975

Holotype: WAM 90-72

Paratype: WAM 437-72

Number of specimens: 2

Locality: 201 to 228 m depth, northwest of Bunbury, W.A.

Reference: *Rec. Aust. Mus.* **30**: 22-23, plate 3, figure 4.

#### Family Conidae

*Conus marielae* Rehder and Wilson, 1975

Paratypes: WAM 317 to 321-73

Number of specimens: 5

Locality: One half mile off Baie Motu-Hee, Nuka Hiva, Marquesas Islands

Reference: *Smithsonian Contr. Zool.* **203**: 14-16, figure 10.

#### Family Terebridae

*Duplicaria (Duplicaria) crakei* Burch, 1965

Paratypes: WAM 2675-67

Number of specimens: 2

Locality: Cable Beach, Broome, W.A.

Reference: *Veliger* **7** (4): 245-247, plate 31, figure 1.

*Terebra jacquelinae* Bratcher and Burch, 1970

Paratype: WAM 367-72

Number of specimens: 1

Locality: Academy Bay, Santa Cruz Island, Galapagos Islands, Equador.

Reference: *Los Angeles County Mus. Contr. Sci.* **188**: 2-5, figures 3 and 4

### SUBCLASS OPISTHOBRANCHIA

#### Order Pyramidelloida

*Pseudoskenella depressa* Ponder, 1973

Paratypes: WAM 425-73



Number of specimens: 2

Locality: Long Reef, Collaroy, N.S.W.

Reference: *Malacol. Rev.* 6: 119-123, figures 1-8.

### Order Cephalaspidia

*Ringicula meridionalis* Hedley, 1911

Syntypes: WAM 7588

Number of specimens: 3

Locality: 180 m depth, 64 km south of Cape Wiles, S.A.

Reference: Report on the Mollusca obtained by the F.I.S. *Endeavour* chiefly off Cape Wiles, South Australia. Part 1. Zoological results of the fishing expedition carried out by the F.I.S. *Endeavour* 1901-1910, Part 2: 112-113, plate 20, figure 38.

### Order Nudibranchia

*Astraeolis westralis* Burn, 1966

Holotype: WAM 180-64

Paratypes: WAM 106-65

Number of specimens: 3

Locality: Rottnest Island, W.A.

Reference: *J. malac. Soc. Aust.* 1 (9): 31-32, figures 11-14.

*Nossis westralis* Burn, 1964

Holotype: WAM 61-64

Number of specimens: 1

Locality: Nicol Bay, north of Roebourne, W.A.

Reference: *J. malac. Soc. Aust.* 1 (8): 11-12, figures 1-5

## SUBCLASS PULMONATA

### Family Chondrinidae

*Australbinula complexa* Iredale, 1939

Holotype: WAM 22-40

Paratypes: WAM 22-40

Number of specimens: 8

Locality: Nangeenan via Merredin, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 7-8, plate 1, figure 7.

Remarks: Classified in the genus *Gastrocopta*, subgenus *Australbinula*, by Wenz and Zilch, 1959-60.

*Australbinula helmsiana* Iredale, 1939

Paratypes: WAM 21-40

Number of specimens: 6

Locality: Forrest River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 8, plate 1, figure 2.

Remarks: Classified in the genus *Gastrocopta*, subgenus *Australbinula*, by Wenz and Zilch, 1959-60.

### Family Helicinidae

*Helicina walkeri* Smith, 1894

Paratype: WAM 20-40

Number of specimens: 1

Locality: Bavelin Island, W.A.

Reference: *Proc. malac. Soc. Lond.* 1: 99, plate 7, figure 26.

Remarks: Iredale (1939) classified this species in the genus *Pleuropoma*.

### Family Pupillidae

*Omegapilla occidentalis* Iredale, 1939

Syntypes: WAM 12981-12988, 12992, 12993

Number of specimens: 10

Locality: Rottnest Island, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 12, plate 1, figure 10.

Remarks: Classified in the genus *Pupilla*, subgenus *Omegapilla*, by Wenz and Zilch, 1959-60.

*Themapupa anapacifica* Iredale, 1939

Paratypes: WAM 23-40

Number of specimens: 3

Locality: Forrest River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 11-12, plate 1, figure 9.

Remarks: Classified in the genus *Pupoides*, subgenus *Themapupa*, by Wenz and Zilch, 1959-60.

*Themapupa beltiana asserta* Iredale, 1939

Paratypes: WAM 92 to 99-34

Number of specimens: 8

Locality: Nangeenan via Merredin, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 11, plate 1, figure 3.

Remarks: Classified in the genus *Pupoides*, subgenus *Themapupa*, by Wenz and Zilch, 1959-60.

*Themapupa beltiana contexta* Iredale, 1939

Paratypes: WAM 883

Number of specimens: 3

Locality: Cardanumbi, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 11, plate 1, figure 6.

Remarks: Classified in the genus *Pupoides*, subgenus *Themapupa*, by Wenz and Zilch, 1959-60.

*Themapupa dirupta* Iredale, 1939

Paratype: WAM 24-40

Number of specimens: 1

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 11, plate 1, figure 8.

#### Family Succineidae

*Austrosuccinea contenta isolata* Iredale, 1939

Paratypes: WAM 839 to 845-31

Number of specimens: 7

Locality: Rottnest Island, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 13.

#### Family Punctidae

*Westralaoma aprica* Iredale, 1939

Paratype: WAM 40-40

Number of specimens: 1

Locality: Nangeenan via Merredin, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 38, plate 3, figure 9.

*Westralaoma expicta* Iredale, 1939

Paratype: WAM 42-40

Number of specimens: 1

Locality: Nangeenan via Merredin, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 37-38, plate 3, figure 4.

### Family Dipnelicidae

*Annoselix dolosa* Iredale, 1939

Paratypes: WAM 43-40

Number of specimens: 3

Locality: Deep River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 39, plate 1, figures 24 and 27

### Family Charopidae

*Epinicium restifer* Iredale, 1939

Paratypes: WAM 13732

Number of specimens: 36

Locality: Serpentine, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 43, plate 1, figure 26.

*Epinicium restifer firmatum* Iredale, 1939

Holotype: WAM 13115

Number of specimens: 1

Locality: Peppermint Grove, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 43

*Pernagera lena* Iredale, 1939

Paratypes: WAM 45-50

Number of specimens: 3

Locality: Bow River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 40, plate 3, figure 3.

### Family Bulimulidae

*Bothriembryon balteolus* Iredale, 1939

Lectotype: WAM 9876

Paratypes: WAM 8877, 15339, 15341 to 15351

Number of specimens: 15

Localities: Esperance mallee belt, 80 km south of Norseman, Salmon Gums, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 21-22, plate 2, figure 9.

*Bothriembryon bradshawi* Iredale, 1939

Paratypes: WAM 13109, WAM 1028-76

Number of specimens: 5

- Locality: Tambellup, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 24, plate 2, figure 14.
- Bothriembryon distinctus* Iredale, 1939  
Paratypes: WAM 8873  
Number of specimens: 7  
Locality: Cardanumbi, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 36, plate 2, figure 43.
- Bothriembryon esperantia* Iredale, 1939  
Paratypes: WAM 13427 to 13430  
Number of specimens: 4  
Locality: Esperance, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 21, plate 2, figure 8.
- Bothriembryon fuscus* Thiele, 1930  
Paratypes: WAM 1015-76  
Number of specimens: 6  
Locality: Deep River, Nornalup Inlet, W.A.  
Reference: *Fauna South-West Australia.* 5 (8): 588, plate 7, figure 8.
- Bothriembryon glauerti* Iredale, 1939  
Holotype: WAM 10127  
Paratypes: WAM 10127  
Number of specimens: 3  
Locality: Stirling Ranges, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 29, plate 2, figure 24.
- Bothriembryon iruineanus* Iredale, 1939  
Paratypes: WAM 1027-76  
Number of specimens: 3  
Locality: Cape Naturaliste, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 29, plate 2, figure 15.
- Bothriembryon jacksoni* Iredale, 1939  
Paratypes: WAM 1023-76  
Number of specimens: 3  
Locality: West of Nornalup Inlet, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 31, plate 2, figure 30.
- Bothriembryon leeuwinensis eventus* Iredale, 1939  
Paratypes: WAM 271 to 275  
Number of specimens: 8  
Locality: Margaret River, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 25, plate 2, figure 18.

*Bothriembryon notatus* Iredale, 1939

Paratypes: WAM 11624

Number of specimens: 19

Locality: Pallinup River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 31, plate 2, figure 29.

*Bothriembryon perditus* Iredale, 1939

Paratypes: WAM 35 to 40

Number of specimens: 7

Locality: 112 km east of Israelite Bay, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 32, plate 2, figure 32.

*Bothriembryon perobesus* Iredale, 1939

Holotype: WAM 10217

Number of specimens: 1

Locality: Mouth of Moore River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 28, plate 2, figure 22.

*Bothriembryon praecelsus* Iredale, 1939

Holotype: WAM 9321

Number of specimens: 1

Locality: Kellerberrin, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 22, plate 2, figure 11.

*Bothriembryon rhodostomus grantianus* Iredale, 1939

Paratypes: WAM 1025-75

Number of specimens: 4

Locality: Charlie Island, Esperance, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 21

*Bothriembryon rhodostomus hullianus* Iredale, 1939

Paratypes: WAM 1026-76

Number of specimens: 4

Locality: Gunton Island, Recherche Archipelago, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 20

*Bothriembryon rhodostomus perspectus* Iredale, 1939

Paratypes: WAM 1029-76

Number of specimens: 2

Locality: Woody Island, Recherche Archipelago, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 21

*Bothriembryon rhodostomus wrightianus* Iredale, 1939

Paratypes: WAM 1014-76

Number of specimens: 5

- Locality: Rabbit Island, Recherche Archipelago, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 21
- Bothriembryon serpentinus* Iredale, 1939  
Paratypes: WAM 12115 to 12174  
Number of specimens: 60  
Locality: Serpentine Falls, Darling Range, W.A.  
Reference: *Rec. West. Aust. Mus.* 2 (1): 22, plate 2, figure 10.
- Bulimulus (Lissoacme) rudistriatus* Haas, 1955  
Paratypes: WAM 692-74  
Number of specimens: 4  
Locality: Hacienda Palmira, Andahuaylas, Apurimac, Peru  
Reference: *Fieldiana: Zool.* 37: 318-319, figure 64.
- Bulimulus (Peronaeus) acme* Haas, 1955  
Paratypes: WAM 689-74  
Number of specimens: 3  
Locality: Altura de la Hacienda de Mozobamba, Ongoy, Andahuaylas, Peru  
Reference: *Fieldiana: Zool.* 37: 325-326, figure 68
- Bulimulus (Peronaeus) extensus* Haas, 1955  
Paratypes: WAM 688-74  
Number of specimens: 5  
Locality: Hacienda Palmira, Andahuaylas, Apurimac, Peru  
Reference: *Fieldiana: Zool.* 37: 323-324, figure 67
- Bulimulus (Peronaeus) pyrigidium* Haas, 1955  
Paratypes: WAM 685-74  
Number of specimens: 4  
Locality: Hacienda Moyamba, Orgoy, Andahuaylas, Apurimac, Peru  
Reference: *Fieldiana: Zool.* 37: 321-322, figure 66.
- Bulimulus (Rhabdotus) dealbatus pasonis* Pilsbry, 1902  
Paratype: WAM 687-74  
Number of specimens: 1  
Locality: Franklin Mountain, El Paso, Texas  
Reference: *Nautilus* 16: 32
- Bulimulus (Scutalus) longitudinalis* Haas, 1955  
Paratypes: WAM 684-74  
Number of specimens: 6  
Locality: Polanco, Tambo, San Miguel, Ayachuca, Peru  
Reference: *Fieldiana: Zool.* 37: 316-317, figure 63.

*Drymaeus (Drymaeus) schmidti* Haas, 1955

Paratypes: WAM 691-74

Number of specimens: 5

Locality: Ccachubamba, Marcapata, Cuzco, Peru

Reference: *Fieldiana: Zool.* 37: 314-315, figure 62.

*Notopetraceus platychielus* Haas, 1955

Paratypes: WAM 690-74

Number of specimens: 5

Locality: Hacienda Pajonal, Ocros Cangallo Ayacucho, Peru

Reference: *Fieldiana: Zool.* 37: 311-313, figures 60 and 61.

#### Family Camaenidae

*Amplirhagada novelta* Iredale, 1939

Paratype: WAM 3994

Number of specimens: 1

Locality: Drysdale River, Napier/Broome Bay, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 67-68, plate 5, figure 12.

*Chloritis micromphala* Gude, 1907

Paratypes: WAM 48-40

Number of specimens: 2

Locality: Barrier Range, W.A.

Reference: *Proc. malac. Soc. Lond.* 7: 231, plate 21, figure 6.

Remarks: Iredale (1939) classified this species in the genus *Kimboraga*.

*Helix derbyi* Cox, 1892

Paratypes: WAM 52-40

Number of specimens: 4

Locality: Napier Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W. Ser. 2; 6:* 566, plate 20, figures 4 and 5

Remarks: Iredale (1939) classified this species in the genus *Westraltrachia*.

*Helix (Gonostoona) baudinensis* Smith, 1893

Paratype: WAM 50-40

Number of specimens: 1

Locality: Baudin Island, W.A.

Reference: *The Conchologist* 2: 97

Remarks: Iredale (1939) classified this species in the genus *Baudinella*.

*Helix (Hadra) oscarensis* Cox, 1892

Paratype: WAM 63-40

Number of specimens: 1



Locality: Oscar Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W. Ser. 2*, 6: 565, plate 20, figures 6 and 7

Remarks: Iredale (1939) classified this species in the genus *Rhagada*.

*Parrhagada commoda* Iredale, 1939

Paratypes: WAM 66-40

Number of specimens: 2

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 64, plate 4, figure 19.

*Parrhagada delecta* Iredale, 1939

Paratypes: WAM 65-40

Number of specimens: 4

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 64, plate 4, figure 22.

*Parrhagada ferrosa* Iredale, 1939

Paratypes: WAM 67-40

Number of specimens: 2

Locality: Barker Gorge, Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 65, plate 4, figure 21.

*Pleuroxia abstans* Iredale, 1939

Paratypes: WAM 833 to 841-32

Number of specimens: 9

Locality: Murchison House, Gantheaume Bay, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 56-57, plate 3, figure 22.

Remarks: Classified in the genus *Angasella* by Wenz and Zilch, 1959-60.

*Pleuroxia oligopleura numba* Iredale, 1939

Holotype: WAM 8881

Number of specimens: 1

Locality: Cardanumbie, west of Eyre, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 56, plate 3, figure 28.

Remarks: Classified in the genus *Angasella* by Wenz and Zilch, 1959-60.

*Pleuroxia polypleura elfina* Iredale, 1939

Holotype: WAM 8880

Paratypes: WAM 8880

Number of specimens: 6

Locality: Newman Rocks, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 55, plate 3, figure 27.

Remarks: Recognised as *Angasella cyrtopleura* Tate, 1879, by Wenz and Zilch, 1959-60.

*Rhagada convicta tambra* Iredale, 1939

Holotype: WAM 221-32

Number of specimens: 1

Locality: Tambrey Station, Fortescue River, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 61-62, plate 4, figure 12.

*Rhagada gatta* Iredale, 1939

Paratype: WAM 59-40

Number of specimens: 1

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 60-61, plate 4, figure 5.

*Rhagada mimika* Iredale, 1939

Paratype: WAM 60-40

Number of specimens: 1

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 61, plate 4, figure 4.

*Rhagada oscarensis* Cox, 1892

Paratypes: WAM 64-40

Number of specimens: 3

Locality: Oscar Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W. Ser. 2*, 6: 565, plate 20, figures 6 and 7

*Rhagada sutra* Iredale, 1939

Paratype: WAM 62-40

Number of specimens: 1

Locality: Napier Range, W.A.

References: *Rec. West. Aust. Mus.* 2 (1): 61, plate 4, figure 9.

*Sinumelon datum* Iredale, 1939

Holotype: WAM 8878

Paratypes: WAM 8878

Number of specimens: 3

Locality: Eucla, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 53, plate 3, figure 18.

Remarks: Classified in the genus *Thersites*, subgenus *Sinumelon*, by Wenz and Zilch, 1959-60.

*Sinumelon lennum mutcum* Iredale, 1939

Holotype: WAM 8879

Number of specimens: 1

Locality: Madura, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 54, plate 3, figure 21.

Remarks: Classified in the genus *Thersites*, subgenus *Sinumelon*, by Wenz and Zilch, 1959-60.

*Sinumelon vagente* Iredale, 1939

Holotype: WAM 10944

Paratype: WAM 10944

Number of specimens: 2

Locality: Mount Singleton, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 54, plate 3, figure 24.

Remarks: Classified in the genus *Thersites*, subgenus *Sinumelon*, by Wenz and Zilch, 1959-60.

*Tenuigada ignara* Iredale, 1939

Paratypes: WAM 70-40

Number of specimens: 3

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 68, plate 5, figure 13.

*Tenuigada percita* Iredale, 1939

Paratypes: WAM 69-40

Number of specimens: 2

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 68, plate 5, figure 14.

*Thersites woodwardi* Fulton, 1902

Cotypes: WAM 734-77

Number of specimens: 2

Locality: Northwest W.A.

Reference: *Proc. malac. Soc. Lond.* 5: 33

Remarks: Iredale (1939) classified this species in the genus *Parrhagada*.

*Torresitrachia monticola* Iredale, 1939

Paratype: WAM 49-40

Number of specimens: 1

Locality: Napier Range, W.A.

Reference: *Rec. West. Aust. Mus.* 2 (1): 48-49, plate 3, figure 13.

*Trachia froggatti* Ancey, 1898

Paratype: WAM 51-40

Number of specimens: 1

Locality: Oscar Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W.* 22: 774, plate 36, figure 2.

Remarks: Iredale (1939) classified this species in the genus *Westraltrachia*.

*Trachia monogramma* Ancey, 1898

Paratype: WAM 56-40

Number of specimens: 1

Locality: Oscar Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W.* 22: 775, plate 36, figure 3.

*Trachia orthocheila* Ancey, 1898

Paratypes: WAM 53-40

Number of specimens: 5

Locality: Oscar Range, W.A.

Reference: *Proc. Linn. Soc. N.S.W.* 22: 774, plate 36, figure 4.

Remarks: Iredale (1939) classified this species in the genus *Westraltrachia*.

## CLASS BIVALVIA

### Family Mytilidae

*Fluviolanatus amarus* Laseron, 1956

Paratypes: WAM 2227-67

Number of specimens: 4

Locality: Woogoolga, N.S.W.

Reference: *Aust. Zool.* 12 (3): 274, figures 46-49.

Remarks: Transferred to the genus *Modiolus* by Macpherson and Gabriel (1962) but it is not a mytilid (Wilson, pers. comm., 1977).

*Modiolaria perstriata* Hedley, 1906

Cotypes: WAM 2228-69

Number of specimens: 3

Locality: 29-36 m depth off Masthead Island, Queensland.

Reference: *Proc. Linn. Soc. N.S.W.* 31: 472, plates 36-38.

Remarks: Macpherson and Gabriel (1962) transferred this species to the genus *Lanistina*.

### Family Lyonsiidae

*Guiandesma sinuosa* Morrison, 1943

Paratype: WAM 1176-67

Number of specimens: 1

Locality: Kartabo, British Guiana (Guyana)

Reference: *Nautilus* 57 (2): 46-52, plate 8.

Remarks: The genus *Guiandesma* was regarded as a synonym of *Ostomya* by Moore (1969).

## CLASS CEPHALOPODA

### Family Sepiidae

*Sepia iruingae* Meyer, 1909

Holotype: WAM 4203

Number of specimens: 1

Locality: Warnbro Sound, Safety Bay, W.A.

Reference: *Fauna Sudwest-Aust.* 2 (19): 333, figures 7-10.

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