

## Supplement to the 2002 catalogue of Australian Crustacea: Malacostraca – Syncarida and Peracarida (Volume 19.2A): 2002–2004

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### Abstract

Poore, G.C.B. 2005. Supplement to the 2002 catalogue of Australian Malacostraca – Syncarida and Peracarida (Volume 19.2A): 2002–2004. *Museum Victoria Science Reports* 7: 1–15.

Publications in the period 2002 to 2004 dealing with Australian Syncarida and Peracarida have been reviewed and new taxa, new combinations and significant papers listed. Eighty species in 28 genera and seven families of Isopoda, seven new species in four genera and two families of Tanaidacea, and one new species of Spelaeogriphacea have been newly reported for Australia in the 3-year period. No publications dealing with Syncarida, Mictacea or Thermosbaenacea were found. This report does not deal with Amphipoda, Mysidacea or Cumacea. These updates have been made to the *Zoological Catalogue of Australia* Volume 19.2A on the Australian Biological Resources Study website.

### Introduction

Volume 19.2A of the *Zoological Catalogue of Australia* (Poore, 2002) dealt with all taxa of malacostracan Crustacea in the superorder Syncarida and orders Isopoda, Tanaidacea, Mictacea, Thermosbaenacea and Spelaeogriphacea of superorder Peracarida. Volume 19.2A did not deal with other peracaridan orders, Amphipoda, Mysidacea or Cumacea (see Volume 19.2B). The closing date for the published catalogue was 31 December 2001. New papers published since then, until 31 December 2004, have added to the number of taxa of Isopoda, Tanaidacea and Spelaeogriphacea known from Australia. In addition, some taxa were inexplicably omitted from the original document and new research has altered the taxonomic position of others. This report supplements and corrects the catalogue by reference to new literature published until 31 December 2004.

The numbers of Syncarida (six families, 13 genera, 21 species), Mictacea and Thermosbaenacea (one family, genus and species each) remain unchanged. Eighty species in 28 genera and seven families of Isopoda, seven new species in four genera and two families of Tanaidacea, and one new species of Spelaeogriphacea have been newly reported for Australia in the 3-year period (see table).

In the published *Zoological Catalogue of Australia* Vol. 19.2A, diagnoses were given for all families covered. For reasons of economy, diagnoses of families newly recorded for the Australian fauna are not given here but a reference to a recent diagnosis is offered. Likewise, registration numbers of type material are not listed although the names of museums holding types are; type localities are given only in brief. Changes are based on the references cited or personal communications from Alison J. A. Green (AJAG below). I thank her for pointing out mistakes and alerting me to updates.

New taxa are listed in bold. Parentheses enclose the names of taxa no longer recognised in the Australian fauna. Other taxa are listed only when they have been referred to in the recent literature. Subheadings following each taxon are more or less as in the style used in the original catalogue. References are listed at the end of the paper and not cited in full with each entry as in the *Zoological Catalogue of Australia*. Some minor spelling mistakes in the original catalogue are not mentioned in this report but are corrected on the updated Australian Biological Resources Study website.

The following acronyms have been used for the institutions in which the type specimens in this taxon are held.

AM Australian Museum, Sydney, New South Wales, Australia

BMNH Natural History Museum (formerly British Museum (Natural History)), London, England

MNHP Muséum National d'Histoire Naturelle, Paris, France

NMGC National Museum & Gallery, Cardiff, Wales

NMV Museum Victoria, Melbourne, Victoria, Australia

NTM Museum and Art Galleries of the Northern Territory, Darwin, Northern Territory, Australia

QM Queensland Museum, Brisbane, Queensland, Australia

SAM South African Museum, Cape Town, South Africa

SAMA South Australian Museum, Adelaide, South Australia, Australia

WAM Western Australian Museum, Perth, Western Australia, Australia

ZMB Museum für Naturkunde an der Universität Humboldt zu Berlin, Berlin, Germany

ZMH Zoologisches Museum Hamburg, Hamburg, Germany

ZMM Moscow State University, Moscow, Russia

ZMUC Zoological Museum, University of Copenhagen, Copenhagen, Denmark.

Table. Numbers of families, genera and species in three peracarid orders at the ends of 2001 and 2004.

Year	Isopoda		Tanaidacea		Spelaeogriphacea	
	2001	2004	2001	2004	2001	2004
Families	69	76	11	13	1	1
Genera	317	345	25	29	1	1
Species	1036	1116	34	41	1	2

## Checklist

### ISOPODA Latreille, 1817

The published catalogue relied for its taxonomy of the Isopoda on a work then in preparation but now published (Brandt & Poore, 2003). An interactive key to the families of Isopoda in Australia is to be found at Keable et al. (2002).

### TAINISOPIDEA Brandt & Poore, 2003

Tainisopidea Brandt & Poore, 2003: 917.

The new taxon includes the species included in ENIGMATA in Poore & Lew Ton (2002b).

Diagnosis: See Brandt & Poore (2003).

### TAINISOPIDAE Wilson, 2003

Tainisopidae Wilson, 2003: 3.

The genus *Tainisopus* Wilson & Ponder, 1992 was erected without allocation to a family and included in ISOPODA ENIGMATA in Poore & Lew Ton (2002b). It is type genus of this family.

Diagnosis: See Wilson (2003).

#### *Pygolabis* Wilson, 2003

*Pygolabis* Wilson, 2003: 7.

Type species: *Pygolabis humphreysi* Wilson, 2003 by original designation.

#### *Pygolabis humphreysi* Wilson, 2003

*Pygolabis humphreysi* Wilson, 2003: 13.

Type data: holotype WAM male, paratypes AM female, male, WAM several specimens, NMV male, female.

Type locality: Newman Borefield, Pilbara region, WA.

Distribution: WA (NW coastal).

Ecology: underground water.

### ASELLOTA Latreille, 1802

### HAPLOMUNNIDAE Wilson, 1976

Haplomunnidae Wilson, 1976: 572.

Diagnosis: See Wilson (1976).

#### *Haplodendron* Just, 2003

*Haplodendron* Just, 2003: 3.

Type species: *Haplodendron buzwilsoni* Just, 2003 by original designation.

#### *Haplodendron buzwilsoni* Just, 2003

*Haplodendron buzwilsoni* Just, 2003: 6.

Type data: holotype NMV male, paratypes NMV several specimens, AM 4 specimens.

Type locality: Bass Strait, S of Point Hicks, 1500 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

### ISCHNOMESIDAE Hansen, 1916

Ischnomesidae Hansen, 1916: 54.

Diagnosis: See Merrin & Poore (2003).

#### *Haplomesus* Richardson, 1908

*Haplomesus* Richardson, 1908: 81.

Type species: *Ischnomesus quadrispinosum* Sars, 1879 by monotypy.

Extralimital distribution: worldwide abyssal.

Generic reference: See Merrin & Poore (2003: 286) for diagnosis and synonymy.

#### *Haplomesus franklinae* Merrin & Poore, 2003

*Haplomesus franklinae* Merrin and Poore, 2003: 286.

Type data: holotype NMV female, paratype(s) NMV 1 male, 1 female.

Type locality: S of Point Hicks, Vic., 1500 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

#### *Ischnomesus* Richardson, 1908

*Ischnomesus* Richardson, 1908: 81.

Type species: *Ischnosoma bispinosum* Sars, 1868 by monotypy.

Extralimital distribution: worldwide, abyssal.

Generic reference: See Merrin & Poore (2003: 286) for diagnosis and synonymy.

#### *Ischnomesus justii* Merrin & Poore, 2003

*Ischnomesus justii* Merrin and Poore, 2003: 296.

Type data: holotype NMV female, paratype(s) NMV male.

Type locality: ESE of Nowra, NSW, 996–990 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

#### *Ischnomesus tasmanensis* Merrin & Poore, 2003

*Ischnomesus tasmanensis* Merrin and Poore, 2003: 291.

Type data: holotype NMV male, paratype(s) NMV 1 male, 1 female.

Type locality: S of Point Hicks, Vic., 1840–1750 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

#### *Stylomesus* Wolff, 1956

*Stylomesus* Wolff, 1956: 97.

Type species: *Rhabdomesus inermis* Vanhöffen, 1914 by monotypy.

Extralimital distribution: worldwide abyssal.

Generic reference: See Merrin and Poore (2003: 300).

#### *Stylomesus sarsi* Merrin & Poore, 2003

*Stylomesus sarsi* Merrin & Poore, 2003: 301.

Type data: holotype AM male, paratype(s) AM 1 male, 1 female.

Type locality: Off eastern Tasmania, 3000–2400 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

### MUNNOPSIDIDAE Lilljeborg, 1864

Munnopsididae Lilljeborg, 1864.

The family name is sometimes spelled Munnopsidae and often erroneously attributed to Sars (1869).

Diagnosis: See Lilljeborg (1864: 6, original diagnosis of family), Sars (1869, erroneously attributed authorship), Wilson (1989, discussion of family characters and subfamilies), Keable et al. (2002, diagnosis, attributed authorship to Lilleborg, 1864).

*Notopais* Hodgson, 1910

*Notopais* Hodgson, 1910: 69.

Type species: *Notopais spicatus* Hodgson, 1910 by monotypy.

Extralimital distribution: Southern Hemisphere, Antarctic to southern Australia.

Generic reference: See Merrin (2004: 3) for diagnosis and key to species.

*Notopais minya* Merrin, 2004

*Notopais minya* Merrin, 2004: 13.

Type data: holotype NMV female, paratype(s) NMV many specimens.

Type locality: E of Nowra, NSW, 429–466 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

*Sursumara* Malyutina, 2003

*Sursumara* Malyutina, 2003: 249.

Type species: *Storhynchura praegrans* George & Menzies, 1968 (= *Sursumara praegrans* (George & Menzies, 1968)) by original designation.

Extralimital distribution: South Atlantic Ocean, Southern Ocean, Tasman Sea.

*Sursumara affinis* Malyutina, 2004

*Sursumara affinis* Malyutina, 2004: 140.

Type data: holotype ZMM female, paratype(s) ZMM 3 females, 1 male.

Type locality: "South Australian Hollow", 4468 m depth (off SW Tas.) [43°36'5"S, 144°03'9"E].

Distribution: 200 mile fishing zone (S oceanic).

Ecology: abyssal.

### PARAMUNNIDAE Vanhöffen, 1914

General references: See Just & Wilson (2004) for revision of *Paramunna* and erection of new genera.

*Ascionana* Just & Wilson, 2004

*Ascionana* Just and Wilson, 2004: 404.

Type species: *Ascionana darwinia* Just & Wilson, 2004 by original designation.

*Ascionana bassiana* Just & Wilson, 2004

*Ascionana bassiana* Just & Wilson, 2004: 407.

Type data: holotype NMV female, paratype(s) NMV several specimens.

Type locality: Vic., Bass Strait, ESE of Point Ricardo, 43 m depth.

Distribution: 200 m bathymetric (Bass Strait, Lower E coast).

Ecology: continental shelf.

*Ascionana curvifrons* Just & Wilson, 2004

*Ascionana curvifrons* Just & Wilson, 2004: 409.

Type data: holotype NMV female, paratype(s) NMV female.

Type locality: Tas., Bass Strait, NNE of King Island, 48 m depth.

Distribution: 200 m bathymetric (Bass Strait).

Ecology: continental shelf.

*Ascionana darwinia* Just & Wilson, 2004

*Ascionana darwinia* Just & Wilson, 2004: 405.

Type data: holotype NMV female, paratype(s) NMV several specimens.

Type locality: NT, New Year Island, 10 m depth.

Distribution: 200 m bathymetric (N coast).

Ecology: subtidal.

*Ascionana dentifera* Just & Wilson, 2004

*Ascionana dentifera* Just & Wilson, 2004: 410.

Type data: holotype NMV female, paratype(s) NMV female.

Type locality: NSW, off Nowra, 204 m depth.

Distribution: 200 m bathymetric (Lower E coast).

Ecology: continental shelf.

*Ascionana latirima* Just & Wilson, 2004

*Ascionana latirima* Just & Wilson, 2004: 412.

Type data: holotype NMV female, paratype(s) NMV several specimens.

Type locality: Vic., Bass Strait, W of Point Ricardo, 36 m depth.

Distribution: 200 m bathymetric (Bass Strait).

Ecology: continental shelf.

*Ascionana magnetica* Just & Wilson, 2004

*Ascionana magnetica* Just & Wilson, 2004: 412.

Type data: holotype NMV female.

Type locality: Qld, Magnetic Island, 1–2 m depth.

Distribution: 200 m bathymetric (NE coast).

Ecology: subtidal.

*Ascionana minuta* Just & Wilson, 2004

*Ascionana minuta* Just & Wilson, 2004: 414.

Type data: holotype NMV female.

Type locality: Vic., Bass Strait, S of Cape Conran, 50 m depth.

Distribution: 200 m bathymetric (Bass Strait).

Ecology: continental shelf.

*Ascionana notaedorsalis* Just & Wilson, 2004

*Ascionana notaedorsalis* Just & Wilson, 2004: 416.

Type data: holotype AM female.

Type locality: NSW, Twofold Bay, 12 m depth.

Distribution: 200 m bathymetric (Lower E coast).

Ecology: subtidal.

*Ascionana rockinghamia* Just & Wilson, 2004

*Ascionana rockinghamia* Just & Wilson, 2004: 417.

Type data: holotype NMV female, paratype(s) NMV female.

Type locality: WA, Rockingham, 2 m depth.

Distribution: 200 m bathymetric (Lower W coast).

Ecology: subtidal.

*Ascionana rotnestia* Just & Wilson, 2004

*Ascionana rotnestia* Just & Wilson, 2004: 419.

Type data: holotype AM female, paratype(s) AM several specimens.

Type locality: WA, Rottnest Island, Geordie Bay, 10 m depth.

Distribution: 200 m bathymetric (Lower W coast).

Ecology: subtidal.

*Ascionana tassiana* Just & Wilson, 2004

*Ascionana tassiana* Just & Wilson, 2004: 419.

Type data: holotype NMV female.

Type locality: Tas., Bicheno, 12 m depth.  
Distribution: 200 m bathymetric (Tas. Coast).  
Ecology: subtidal.

***Epipidonana*** Just & Wilson, 2004

*Epipidonana* Just & Wilson, 2004: 422.  
Type species: *Epipidonana profunda* Just & Wilson, 2004 by original designation.

***Epipidonana profunda*** Just & Wilson, 2004

*Epipidonana profunda* Just & Wilson, 2004: 424.  
Type data: holotype NMV female, paratype(s) NMV female.  
Type locality: Bass Strait, S of Point Hicks, 1000 m depth.  
Distribution: 200 mile fishing zone (SE oceanic).  
Ecology: continental slope.

***Paramunna*** Sars, 1866

*Paramunna* Sars, 1866: 112).  
Type species: *Paramunna bilobata* Sars, 1866 by monotypy.  
Extralimital distribution: cosmopolitan, temperate and cool temperate seas.

***Paramunna macquariensis*** Just & Wilson, 2004

*Paramunna macquariensis* Just & Wilson, 2004: 395.  
Type data: holotype AM female, paratype(s) AM male and female.  
Type locality: Macquarie Island, 14 m depth.  
Distribution: Macquarie Island (Aust. Terr.).  
Ecology: subtidal.

***Paramunna minutuberculata*** Just & Wilson, 2004

*Paramunna minutuberculata* Just & Wilson, 2004: 395.  
Type data: holotype AM female, paratypes AM female, NMV female.  
Type locality: Macquarie Island, 14 m depth.  
Distribution: Macquarie Island (Aust. Terr.).  
Ecology: subtidal.

***Spiculonana*** Just & Wilson, 2004

*Spiculonana* Just & Wilson, 2004: 446.  
Type species: *Spiculonana platysoma* Just & Wilson, 2004 by original designation.

***Spiculonana bathyalis*** Just & Wilson, 2004

*Spiculonana bathyalis* Just & Wilson, 2004: 448.  
Type data: holotype NMV female, paratype(s) NMV 3 males.  
Type locality: Bass Strait, S of Point Hicks, 400 m depth.  
Distribution: 200 mile fishing zone (SE oceanic).  
Ecology: continental slope.

***Sporonana*** Just & Wilson, 2004

*Sporonana* Just & Wilson, 2004: 451.  
Type species: *Sporonana robusta* Just & Wilson, 2004 by original designation.

***Sporonana robusta*** Just & Wilson, 2004

*Sporonana robusta* Just & Wilson, 2004: 451.  
Type data: holotype AM female, paratypes AM several specimens, NMV several specimens.  
Type locality: Macquarie Island, Caroline Cove, 8 m depth.  
Distribution: Macquarie Island (Aust. Terr.).  
Ecology: subtidal.

PHREATOICIDEA Stebbing, 1893

AMPHISOPIDIDAE Nicholls, 1943

***Eremisopus*** Wilson & Keable, 2002

*Eremisopus* Wilson & Keable, 2002a: 44).

Type species: *Eremisopus beei* Wilson & Keable, 2002 by original designation.

***Eremisopus beei*** Wilson & Keable, 2002

*Eremisopus beei* Wilson & Keable, 2002a: 44.  
Type data: holotype WAM male, paratypes WAM several specimens, AM several specimens.  
Type locality: South Creek, near Kalumburu Township, Honeymoon Beach, WA.  
Distribution: WA (N coastal).  
Ecology: lotic freshwater.

***Peludo*** Wilson & Keable, 2002

*Peludo* Wilson & Keable, 2002a: 52.  
Type species: *Peludo paraliotus* Wilson & Keable, 2002 by original designation.

***Peludo paraliotus*** Wilson & Keable, 2002

*Peludo paraliotus* Wilson & Keable, 2002a: 52.  
Type data: holotype WAM male, paratypes WAM several specimens, AM several specimens.  
Type locality: le Grand Beach, Cape le Grand National Park, WA.  
Distribution: WA (SW coastal).  
Ecology: lotic freshwater.

***Phreatoicopsis*** Spencer & Hall, 1897

***Phreatoicopsis raffae*** Wilson & Keable, 2002

*Phreatoicopsis raffae* Wilson & Keable, 2002b: 463.  
Type data: holotype NMV male, paratype(s) AM several specimens.  
Type locality: Flatrock crossing, Grampians National Park, Vic.  
Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: terrestrial.

***Phreatoicopsis terricola*** Sheard, 1936.

General reference: See Wilson & Keable (2002b) who allocated records from Grampians to *Phreatoicopsis raffae* Wilson & Keable, 2002.

***Platypyga*** Wilson & Keable, 2002

*Platypyga* Wilson & Keable, 2002a: 60). [possible junior homonym of *Platypyga* Illiger, 1811 (Mammalia)]  
Type species: *Platypyga subpetrae* Wilson & Keable, 2002 by original designation.

***Platypyga subpetrae*** Wilson & Keable, 2002

*Platypyga subpetrae* Wilson & Keable, 2002a: 60.  
Type data: holotype WAM, paratypes WAM several specimens, AM several specimens.  
Type locality: Toolbrunup Peak, Stirling Range, WA, 700 m altitude.  
Distribution: WA (SW coastal).  
Ecology: spring.

***Synamphisopus*** Nicholls, 1943

***Synamphisopus ambiguus*** Spencer & Hall, 1897

General reference: See Wilson & Keable (2002b) for redescription.

***Synamphisopus doegi*** Wilson & Keable, 2002

*Synamphisopus doegi* Wilson & Keable, 2002b: 478.  
Type data: holotype NMV male, paratype(s) AM several specimens.  
Type locality: Glenelg River, Grampians National Park, Vic.

Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: terrestrial.

#### PHREATOICIDAE Chilton, 1891

##### *Gariwerdeus* Wilson & Keable, 2002

*Gariwerdeus* Wilson & Keable, 2002b: 502.  
Type species: *Gariwerdeus turretensis* Wilson & Keable, 2002 by original designation.

##### *Gariwerdeus beehivensis* Wilson & Keable, 2002

*Gariwerdeus beehivensis* Wilson & Keable, 2002b: 512.  
Type data: holotype NMV male, paratype(s) AM several specimens.  
Type locality: Beehive Falls, Mud Hut Creek, Grampians National Park, Vic.  
Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: lotic freshwater.

##### *Gariwerdeus ingletonensis* Wilson & Keable, 2002

*Gariwerdeus ingletonensis* Wilson & Keable, 2002b: 519.  
Type data: holotype NMV male, paratypes AM several specimens, NMV 3 specimens.  
Type locality: Ingleton Spring, Grampians National Park, Vic.  
Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: spring.

##### *Gariwerdeus turretensis* Wilson & Keable, 2002

*Gariwerdeus turretensis* Wilson & Keable, 2002b: 506.  
Type data: holotype NMV male, paratype(s) AM several specimens.  
Type locality: Stony Creek above Turret Falls, Grampians National Park, Vic.  
Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: lotic freshwater.

##### *Naiopegia* Wilson & Keable, 2002

*Naiopegia* Wilson & Keable, 2002b: 497.  
Type species: *Naiopegia xiphagrostis* Wilson & Keable, 2002 by original designation.

##### *Naiopegia xiphagrostis* Wilson & Keable, 2002

*Naiopegia xiphagrostis* Wilson & Keable, 2002b: 49.  
Type data: holotype NMV male, paratype(s) AM several specimens.  
Type locality: Stony Creek, Grampians National Park, Vic.  
Distribution: VIC (SE coastal); Grampians National Park only.  
Ecology: spring.

#### PONDERELLIDAE Wilson & Keable, 2004

Ponderellidae Wilson & Keable, 2004: 742.  
Diagnosis: See Wilson & Keable (2004).

##### *Ponderella* Wilson & Keable, 2004

*Ponderella* Wilson & Keable, 2004: 742.  
Type species: *Ponderella bundoona* Wilson & Keable, 2004 by original designation.

##### *Ponderella bundoona* Wilson & Keable, 2004

*Ponderella bundoona* Wilson & Keable, 2004: 752.  
Type data: holotype QM male, paratype(s) AM several specimens.  
Type locality: Bundoona Homestead spring, Qld [27°57.15'S, 144°46.21'E].

Distribution: QLD (Bulloo River basin).  
Ecology: spring.

##### *Ponderella ecomanufactia* Wilson & Keable, 2004

*Ponderella ecomanufactia* Wilson & Keable, 2004: 754.  
Type data: holotype QM male, paratype(s) AM several specimens.  
Type locality: Bundoona Homestead spring, Qld [27°57.15'S, 144°46.21'E].  
Distribution: QLD (Bulloo River basin).  
Ecology: spring.

#### CYMOTHOIDA Wägele, 1989

#### ANTHUROIDEA Leach, 1814

#### ANTHELURIDAE Poore & Lew Ton, 1988

##### *Anthomuda hovea* Poore & Lew Ton, 1988

General reference: See Negoescu & Brandt (2001) for new record in Papua New Guinea and redescription.

#### EXPANATHURIDAE Poore, 2001

##### *Coralanthura endeavourae* Poore & Kensley, 1981

General reference: See Poore & Lew Ton (2002a) for new records.

##### *Eisothistos* Haswell, 1884

##### *Eisothistos bellonae* Poore & Lew Ton, 2002

*Eisothistos bellonae* Poore & Lew Ton, 2002a: 4.  
Type data: holotype QM juvenile.  
Type locality: Coral Sea, Bennett Island, Chesterfield Reef.  
Distribution: 200 mile fishing zone (NE oceanic).  
Ecology: coral reef, subtidal.

##### *Eisothistos corinellae* Poore & Lew Ton, 2002

*Eisothistos corinellae* Poore & Lew Ton, 2002a: 9.  
Type data: holotype NMV juvenile, paratype(s) NMV manca.  
Type locality: Vic., Western Port.  
Distribution: 200 m bathymetric (Bass Strait, Tas. Coast).  
Ecology: subtidal.

##### *Eisothistos macquariensis* Poore & Lew Ton, 2002

*Eisothistos macquariensis* Poore & Lew Ton, 2002a: 12.  
Type data: holotype NMV female, paratype(s) NMV male.  
Type locality: Macquarie Island, Aerial Cove.  
Distribution: Macquarie Island (Aust. Terr.).  
Ecology: subtidal.

##### *Eisothistos nowrae* Poore & Lew Ton, 2002

*Eisothistos nowrae* Poore & Lew Ton, 2002a: 19.  
Type data: holotype NMV juvenile, paratype(s) NMV manca.  
Type locality: NSW, off Nowra, 204 m depth.  
Distribution: 200 m bathymetric (Lower E coast).  
Ecology: continental shelf.

##### *Eisothistos poseidon* Knight-Jones & Knight-Jones, 2002

*Eisothistos poseidon* Knight-Jones & Knight-Jones, 2002: 1408.  
Type data: holotype NMGC female, paratype(s) NMGC five specimens.  
Type locality: Cape Schanck, Vic., intertidal pool.  
Distribution: 200 m bathymetric (Bass Strait, Lower E coast, Tas. Coast).  
Ecology: intertidal, subtidal.

##### *Eisothistos victoriae* Poore & Lew Ton, 2002

*Eisothistos victoriae* Poore & Lew Ton, 2002a: 21).

Type data: holotype NMV juvenile, paratype(s) NMV juvenile.

Type locality: Aireys Inlet, Vic.

Distribution: 200 m bathymetric (Bass Strait, S Gulfs coast).

Ecology: intertidal, subtidal.

*Expanathura* Wägele, 1981

General reference: See Poore & Lew Ton (2002a) for key to species.

*Expanathura ardea* (Poore & Kensley, 1981)

General reference: See Poore & Lew Ton (2002a) for new record in New Caledonia and new illustrations.

*Expanathura collaris* (Kensley, 1979)

General references: See Negoescu & Brandt (2001) for redescription and Poore & Lew Ton (2002a) for new illustrations of all stages.

Distribution: Fiji (type locality), Cook Islands, Coral Sea, Moorea, Chelsterfield and Mellish Reefs, Lord Howe Island, Papua New Guinea, Northern Territory, Queensland

*Heptanthura* Kensley, 1978

*Heptanthura* Kensley, 1978: 775.

Type species: *Heptanthura novaezealandiae* Kensley, 1978 by original designation.

Extralimital distribution: Neotropical Region, Palaearctic Region; Caribbean, Mediterranean.

Generic reference: See Poore (2001) for synonymy (3 junior synonyms), diagnosis and list of species.

*Heptanthura kensleyi* Poore & Lew Ton, 2002

*Heptanthura kensleyi* Poore & Lew Ton, 2002a: 35.

Type data: holotype NMV juvenile.

Type locality: NSW, Morna Point, tidepool.

Distribution: 200 m bathymetric (Lower E coast).

Ecology: subtidal.

*Panathura* Barnard, 1925

*Panathura* Barnard, 1925: 143.

Type species: *Apanthura serricauda* Barnard, 1920 by monotypy.

Generic references: See Poore (2001) for diagnosis and list of species and Poore & Lew Ton (2002a: 36) for key to species.

*Panathura baudini* Poore & Lew Ton, 2002

*Panathura baudini* Poore & Lew Ton, 2002a: 39.

Type data: holotype NMV juvenile, paratypes NMV several males and juveniles, AM males and juveniles.

Type locality: Vic., S of Point Hicks, 1000 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

*Panathura hamelini* Poore & Lew Ton, 2002

*Panathura hamelini* Poore & Lew Ton, 2002a: 43.

Type data: holotype NMV female.

Type locality: Tas., Spiky Bridge Coastal Reserve, 2 m depth.

Distribution: 200 m bathymetric (Tas. Coast).

Ecology: subtidal.

*Panathura hicksi* Poore & Lew Ton, 2002

*Panathura hicksi* Poore & Lew Ton, 2002a: 46.

Type data: holotype NMV juvenile, paratype(s) NMV several specimens.

Type locality: Vic., Cape Otway.

Distribution: 200 m bathymetric (Bass Strait, Lower E coast, Tas. Coast).

Ecology: intertidal, subtidal.

*Panathura molyneuxi* Poore & Lew Ton, 2002

*Panathura molyneuxi* Poore & Lew Ton, 2002a: 50.

Type data: holotype NMV postmanca, paratype(s) NMV male, juvenile.

Type locality: Qld, Lizard Island, 15 m depth.

Distribution: 200 m bathymetric (Great Barrier Reef).

Ecology: coral reef, subtidal.

*Rhiganthura* Kensley, 1978

*Rhiganthura* Kensley, 1978: 779.

Type species: *Rhiganthura spinosa* Kensley, 1978 by original designation.

Generic reference: See Poore (2001: 128) for diagnosis.

*Rhiganthura capricornica* Poore & Lew Ton, 2002

*Rhiganthura capricornica* Poore & Lew Ton, 2002a: 55.

Type data: holotype QM juvenile, paratype(s) QM several specimens.

Type locality: Qld, Heron Island.

Distribution: 200 m bathymetric (Great Barrier Reef).

Ecology: coral reef, subtidal.

## CIROLANOIDEA Dana, 1852

### CIROLANIDAE Dana, 1852

*Cirolana australiense* Hale, 1925

General reference: Bruce (2004a) removed the species from the list of New Zealand species.

*Excirrolana orientalis* (Dana, 1852)

General reference: Bruce & Olesen (2002) recorded this widespread species from Thailand.

*Politolana* Bruce, 1981

General reference: Riseman & Brusca (2002) undertook a cladistic analysis, provided a key to species, and excluded Australian species.

*Politolana dasyprion* Bruce, 1991

Alternative taxonomic arrangement: See Riseman & Brusca (2002) (species excluded from *Politolana* on basis of cladistic analysis)

## CYMOTHOOIDEA Leach, 1814

### AEGIDAE White, 1850

*Aega* Leach, 1815

Species excluded from limital area: *Aega antillensis* Schioedte & Meinert, 1879, *Aega deshayesiana* Milne Edwards, 1840 (See Bruce, 2004b).

*Aega alazon* Bruce, 2004

*Aega alazon* Bruce, 2004b: 156.

Type data: holotype SAM female, paratype(s) SAM 3 females, 1 male.

Type locality: S of Port Elizabeth, South Africa.

Distribution: 200 m bathymetric (Bass Strait, S Gulfs coast, Tas. Coast); Southern Ocean, South Atlantic, South Africa, Indian Ocean, Australia, New Zealand, New Caledonia.

Ecology: continental shelf, continental slope.

*Aega banda* Bruce, 2004

*Aega banda* Bruce, 2004b: 162.

Type data: holotype ZMUC male, paratype(s) NTM female.

Type locality: Kei Islands, Indonesia, 290 m depth.

Distribution: Indonesia, 200 m bathymetric (NW coast), Kei Islands.

Ecology: continental slope.

***Aega birubi*** Bruce, 2004

*Aega birubi* Bruce, 2004b: 166.

Type data: holotype AM male, paratype(s) AM 5 females, 1 male.

Type locality: off Bermagui, NSW, 200 m depth.

Distribution: New Zealand, 200 m bathymetric (Bass Strait, Lower E coast, Tas. Coast).

Ecology: continental shelf, continental slope.

***Aega hamiota*** Bruce, 2004

*Aega hamiota* Bruce, 2004b: 171.

Type data: holotype MNHP male, paratypes MNHP female, NTM female.

Type locality: New Caledonia, 535 m depth.

Distribution: New Caledonia, 200 mile fishing zone (NE oceanic); Coral Sea, Chesterfield Islands.

Ecology: continental slope.

***Aega trulla*** Bruce, 2004

*Aega trulla* Bruce, 2004b: 203.

Type data: holotype NTM female, paratypes QM female, AM female.

Type locality: E of Townsville, Qld, 752 m depth.

Distribution: Solomon Islands, 200 mile fishing zone (NE oceanic).

Ecology: continental shelf.

***Aega umpara*** Bruce, 2004

*Aega umpara* Bruce, 2004b: 208.

Type data: holotype QM female, paratype(s) AM 1 male, 2 females.

Type locality: Moreton Bay, Qld, 8 m depth.

Distribution: 200 m bathymetric (Central E coast), Coral Sea Islands Territory, Kerguelen Island, Norfolk Island.

Ecology: continental shelf.

***Aega warna*** Bruce, 2004

*Aega warna* Bruce, 2004b: 213.

Type data: holotype NMV female, paratypes NMV 2 females, AM 2 females.

Type locality: Bass Strait, WNW of West Point, Tas., 99 m depth.

Distribution: 200 m bathymetric (Bass Strait, S Gulfs coast, Tas. Coast).

Ecology: continental shelf.

#### GNATHIIDAE Leach, 1814

***Elaphognathia*** Monod, 1926

General reference: See Svavarsson and Gísladóttir (2002) for new species and list of species.

#### LIMNORIIDEA Brandt & Poore, 2002

Limnoriidea Brandt & Poore in Poore (2002): 196.

Limnoriidea.—Brandt & Poore, 2003: 917.

Reference: The taxon name was introduced in the *Zoological Catalogue* and attributed to Brandt & Poore who later (2003) justified its taxonomic status.

#### LIMNORIIDAE White, 1850

***Limnoria*** Leach, 1814

*Limnoria agrostisa* Cookson, 1991

General reference: Misspelled *Limnoria agrostica* in *Zoological Catalogue*.

#### SPHAEROMATIDEA Wägele, 1989

#### SPHAEROMATOIDEA Latreille, 1825

#### SPHAEROMATIDAE Latreille, 1825

***Austrasphaera*** Bruce, 2003

*Austrasphaera* Bruce, 2003: 310.

Type species: *Austrasphaera berentsae* Bruce, 2003 by original designation.

***Austrasphaera berentsae*** Bruce, 2003

*Austrasphaera berentsae* Bruce, 2003: 311.

Type data: holotype AM female, paratypes AM several specimens, NMV several specimens.

Type locality: Bay of Islands, Vic.

Distribution: 200 m bathymetric (Bass Strait, G. Aust. Bight, Lower W coast, S Gulfs coast, SW coast).

Ecology: subtidal.

***Austrasphaera springethorpei*** Bruce, 2003

*Austrasphaera springethorpei* Bruce, 2003: 315.

Type data: holotype AM female, paratype(s) AM several specimens.

Type locality: Red Bluff, Kalbarri, WA.

Distribution: 200 m bathymetric (Bass Strait, G. Aust. Bight, Lower W coast, S Gulfs coast, SW coast).

Ecology: subtidal.

***Cassidias*** Richardson, 1906

*Cassidias* Richardson, 1906: 20.

Type species: *Cassidias argentina* Richardson, 1906 by monotypy.

Generic reference: See Bruce (2003: 319) for diagnosis and list of species.

***Cassidias australiensis*** Bruce, 2003

*Cassidias australiensis* Bruce, 2003: 320.

Type data: holotype NMV male, paratypes NMV several specimens, WAM 2 females.

Type locality: McCluer Island, NT.

Distribution: 200 m bathymetric (N coast, NW coast).

Ecology: continental shelf, subtidal.

***Cilicaeopsis whiteleggei*** (Stebbing, 1905)

General reference: See Storey (2002) for new record of widespread species from Thailand.

(*Clianella* Boone, 1923)

Now treated as junior synonym of *Dynoides* Barnard, 1914.

***Clianella amblysinus*** (Pillai, 1954)

Now treated as *Dynoides amblysinus* Pillai, 1954.

***Dynoides*** Barnard, 1914

*Clianella* Boone, 1923. New synonym.

*Dynoidella* Pillai, 1965. New synonym.

*Paradynoides Loyola e Silva*, 1960. New synonym

***Dynoides amblysinus*** Pillai, 1954

Original combination retained.

***Exosphaeroma*** Stebbing, 1900

Generic reference: See Bruce (2003: 327) for diagnosis and list of species.

***Exosphaeroma agmokara* Bruce, 2003**

*Exosphaeroma agmokara* Bruce, 2003: 328.  
Type data: holotype QM male, paratype(s) QM several specimens.  
Type locality: Broken Head, NSW.  
Distribution: 200 m bathymetric (Central E coast).  
Ecology: intertidal.

***Exosphaeroma alveola* Bruce, 2003**

*Exosphaeroma alveola* Bruce, 2003: 333.  
Type data: holotype AM male, paratypes AM several specimens, NMV 4 females.  
Type locality: Jervis Bay, NSW.  
Distribution: 200 m bathymetric (Lower E coast, Tas. Coast).  
Ecology: intertidal, subtidal.

***Koremasphaera* Bruce, 2003**

*Koremasphaera* Bruce, 2003: 339.  
Type species: *Koremasphaera colonus* Bruce, 2003 by original designation.

***Koremasphaera colonus* Bruce, 2003**

*Koremasphaera colonus* Bruce, 2003: 340.  
Type data: holotype NMV male, paratype(s) NMV several specimens.  
Type locality: "The Whaleback", S of Point Hicks, Vic., 13 m depth.  
Distribution: 200 m bathymetric (Bass Strait).  
Ecology: subtidal.

***Margueritta* Bruce, 2003**

***Margueritta sandyi* Bruce, 2003**  
*Margueritta sandyi* Bruce, 2003: 346.  
Type data: holotype AM female, paratype(s) NMV female, manca.  
Type locality: Carnac Island, off Fremantle, WA.  
Distribution: 200 m bathymetric (Lower W coast).  
Ecology: subtidal.

***Moruloidea* Baker, 1908**

Generic reference: See Bruce (2003: 348) for diagnosis.

***Moruloidea perionasus* Bruce, 2003**

*Moruloidea perionasus* Bruce, 2003: 350.  
Type data: holotype NMV male, paratypes NMV 2 males, SAMA male.  
Type locality: Thistle Cove, WA.  
Distribution: 200 m bathymetric (S Gulfs coast, SW coast).  
Ecology: subtidal.

***Paracerceis sculpta* (Holmes, 1904)**

Distribution: Australian Region–Australia: 200 m bathymetric (Bass Strait, Lower E coast, Lower W coast, NE coast, S Gulfs coast) (Hewitt & Campbell, 2001)

***Pedinura* Bruce, 2003**

*Pedinura* Bruce, 2003: 355.  
Type species: *Pedinura flindersia* Bruce, 2003 by original designation.

***Pedinura flindersia* Bruce, 2003**

*Pedinura flindersia* Bruce, 2003: 356.  
Type data: holotype NMV male, paratypes NMV several specimens, AM several specimens.  
Type locality: "The Hotspot", Flinders Island, SA.  
Distribution: 200 m bathymetric (Bass Strait, Lower W coast, S Gulfs coast).  
Ecology: intertidal, subtidal.

***Pedinura mokari* Bruce, 2003**

*Pedinura mokari* Bruce, 2003: 363.  
Type data: holotype NMV male, paratypes NMV several specimens, AM male.  
Type locality: Snapper Point, Beachport, SA.  
Distribution: 200 m bathymetric (Bass Strait).  
Ecology: subtidal.

***Sphaeroma terebrans* Bate, 1866**

General reference: See Si et al. (2002) for filter-feeding.

**VALVIFERA Sars, 1882**

**ARCTURIDAE Dana, 1849**

***Astacilla* Cordiner, 1793**

*Astacilla* Cordiner, 1793.  
Type species: *Oniscus longicornis* Sowerby, 1805 by subsequent designation. See Fowler (1912), ICZN (1986).  
Extralimital distribution: Afrotropical Region, Australian Region, Palaearctic Region; North Atlantic, Mediterranean, North Pacific, southern Africa, western Australia.  
Generic reference: See King (2003b) for diagnosis and species list.

***Astacilla lewtonae* King, 2003**

*Astacilla lewtonae* King, 2003b: 361.  
Type data: holotype WAM male, paratypes WAM several specimens, NMV 4 specimens.  
Type locality: Between Dampier and Port Hedland, WA, 80 m depth.  
Distribution: 200 m bathymetric (NW coast).  
Ecology: continental shelf.

***Neastacilla* Tattersall, 1921**

*Neastacilla attenuata* (Hale, 1946)  
General references: King (2003a) rediagnosed species.

***Neastacilla coonabooloo* King, 2003**

*Neastacilla coonabooloo* King, 2003a: 376.  
Type data: holotype NMV female, paratypes NMV several specimens, AM 2 females.  
Type locality: Crib Point, Western Port, Vic.  
Distribution: 200 m bathymetric (Bass Strait, Lower E coast, Tas. Coast).  
Ecology: subtidal.

***Neastacilla deducta* Hale, 1925**

General references: King (2003a) rediagnosed and refigured species.

***Neastacilla inaequispinosa* (Guiler, 1949)**

General references: King (2003a) rediagnosed and refigured species.

***Neastacilla kanowna* King, 2003**

*Neastacilla kanowna* King, 2003a: 384.  
Type data: holotype NMV female, paratype(s) NMV several specimens.  
Type locality: Oberon Bay, Vic.  
Distribution: 200 m bathymetric (Bass Strait, S Gulfs coast).  
Ecology: subtidal.

***Neastacilla lawadi* King, 2003**

*Neastacilla lawadi* King, 2003a: 390.  
Type data: holotype NMV female, paratype(s) NMV several specimens.

Type locality: Between Dampier and Port Hedland, WA, 52 m depth.

Distribution: 200 m bathymetric (N coast, NW coast, S Gulfs coast).

Ecology: continental shelf, subtidal.

*Neastacilla macilenta* (Hale, 1946)

General references: King (2003a) rediagnosed species.

*Neastacilla marrimarri* King, 2003

*Neastacilla marrimarri* King, 2003a: 395.

Type data: holotype NMV female.

Type locality: King George Sound, WA.

Distribution: 200 m bathymetric (SW coast).

Ecology: subtidal.

*Neastacilla monoseta* (Guiler, 1949)

General references: King (2003a) rediagnosed and rediagnosed species.

*Neastacilla soelae* King, 2003

*Neastacilla soelae* King, 2003a: 401.

Type data: holotype NMV female, paratype(s) NMV 4 females.

Type locality: Between Dampier and Port Hedland, WA, 52 m depth.

Distribution: 200 m bathymetric (NW coast).

Ecology: continental shelf.

*Neastacilla sheardi* (Hale, 1946)

General references: King (2003a) rediagnosed species.

*Neastacilla tarni* King, 2003

*Neastacilla tarni* King, 2003a: 401.

Type data: holotype NMV female, paratype(s) NMV several specimens.

Type locality: Topgallant Island, Investigator Group, SA, 15 m depth.

Distribution: 200 m bathymetric (G. Aust. Bight).

Ecology: subtidal.

*Neastacilla tharnardi* King, 2003

*Neastacilla tharnardi* King, 2003a: 405.

Type data: holotype NMV female, paratype(s) NMV male, manca.

Type locality: Saxon Reef, Portland, Vic., 11 m depth.

Distribution: 200 m bathymetric (Bass Strait, S Gulfs coast).

Ecology: subtidal.

*Neastacilla yuriel* King, 2003

*Neastacilla yuriel* King, 2003a: 409.

Type data: holotype NMV female, paratype(s) NMV many specimens.

Type locality: Flinders Island, Hotspot Reef, SA, 17 m depth.

Distribution: 200 m bathymetric (Bass Strait, G. Aust. Bight, SW coast, Tas. Coast).

Ecology: continental shelf, subtidal.

## PSEUDIDOTHEIDAE Ohlin, 1901

Pseudidotheidae Ohlin, 1901.

Diagnosis: See Poore & Bardsley (2004).

*Pseudidothea* Ohlin, 1901

*Pseudidothea* Ohlin, 1901: 276.

Type species: *Pseudidothea bonnieri* Ohlin, 1901 by monotypy.

*Pseudidothea hoplites* Poore & Bardsley, 2004

*Pseudidothea hoplites* Poore & Bardsley, 2004: 76.

Type data: holotype NMV male, paratype(s) NMV 13 specimens.

Type locality: 70 km W of Cape Farewell, King Island, Tas., 127 m depth.

Distribution: Bass Strait, Tas. Coast.

Ecology: continental shelf.

## ONISCIDEA Latreille, 1802

Additional comments in Introduction: Molecular data was assessed and its implications for phylogenetic relationships discussed by Mattern & Schlegel (2001) and Mattern (2003). Judd & Horwitz (2003) discussed the distribution of species, several undescribed in south-western Australia. Schmalzfuss & Wolf-Schwenninger (2002) provided a comprehensive bibliography for Oniscidea and Schmalzfuss (2003) listed the world species, 3527 in all at the year 2000, together with references to systematics and many aspects of biology.

## LIGIAMORPHA Vandel, 1943

### CRINOCHEETA Legrand, 1946

New taxonomic arrangement references: Schmidt (2002; 2003: followed herein)

## ARMADILLOIDEA Brandt, 1831

### (ACTAECIIDAE Vandel, 1952)

The family is no longer recognised and is deleted from the *Zoological Catalogue*. *Actaecia* Dana, 1853 and its six species are transferred to SCYPHACIDAE

## ARMADILLIDAE Brandt, 1831

*Australiodillo* Verhoeff, 1926

*Australiodillo insularis* Vandel, 1973.

Type data: AM type specimens have been identified as *Cubaris murina* by S. Taiti, 2004 and were possibly not seen by Vandel (S. Keable, pers. comm., 2 September 2004); several specimens collected from Lord Howe Island by H.G. Gogger were separated in 1967 into five species and are likely to have been mixed by Vandel (AJAG, 22 January 2005).

*Cubaris* Brandt, 1833

*Cubaris dhaliwali* Lillemets & Wilson, 2002

*Cubaris dhaliwali* Lillemets & Wilson, 2002: 90).

Type data: holotype AM male, paratype(s) AM several specimens.

Type locality: Transit Hill, Lord Howe Island.

Distribution: Lord Howe Island.

Ecology: terrestrial.

(*Cubaris howensis* Poore, 2002 in Green et al. (2002: 294)).

See *Cubaris lewisae* Lillemets & Wilson, 2002 below.

*Cubaris lewisae* Lillemets & Wilson, 2002

*Cubaris lewisae* Lillemets & Wilson, 2002: 90, nom. nov. (6 June 2002) for *Cubaris granulatus* Lewis, 1998 (preoccupied).

*Cubaris howensis* Poore, 2002 in Green et al. (2002: 294). [unnecessary nom. nov. for *Cubaris granulatus* Lewis, 1998, date of publication 24 December 2002].

Distribution: Lord Howe Island.

Ecology: terrestrial.

*Cubaris miniloba* Lewis, 1998

Correct spelling of valid name from *minilobus* (AJAG, 28 August 2003)

*Cubaris miser* (Budde-Lund, 1904)

Correct spelling of valid name from *miser* (AJAG, 28 August 2003)

*Cubaris murina* Brandt, 1833

Alternative taxonomic arrangement: Schmalzfuss (2003) (treated *Nesodillo medius* as a valid species of *Nesodillo*) and not as junior synonym of *C. murina*.

*Cubaris rufoniger* (Wahrberg, 1922)

Correct spelling of valid name from *rufonigra* (AJAG, 28 August 2003)

(*Hybodillo* Taiti, Paoli & Ferrara, 1998)

Genus now not recognised in Australia and only Australian species now placed in *Pseudodiploexochus* Taiti, Paoli & Ferrara, 1998.

*Merulana* Budde-Lund, 1913

Alternative arrangement references: Lillemets & Wilson (2002) treated *Merulana* as junior synonym of *Pyrgoniscus*.

*Merulana bicarinata* (Budde-Lund, 1913)

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Merulana boydensis* Lewis, 1998

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Merulana helmsiana* (Chilton, 1916)

Alternative taxonomic arrangement: Schmalzfuss (2003) returned species to *Cubaris*.

*Merulana hispida* Vandel, 1973

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Merulana impressifrons* (Budde-Lund, 1904)

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Merulana iniqua* (Budde-Lund, 1904)

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Merulana rugosa* (Budde-Lund, 1885)

General references: Schmalzfuss (2003) confirmed generic placement.

Alternative taxonomic arrangement: Lillemets & Wilson (2002) included species in *Pyrgoniscus*.

*Pseudodiploexochus* Taiti, Paoli & Ferrara, 1998

*Pseudodiploexochus* Arcangeli, 1934 [*nom. nud.*].

*Pseudodiploexochus* Taiti et al., 1998: 297).

Type species: *Diploexochus tabularis* Barnard, 1932 by original designation.

Extralimital distribution: Afrotropical Region, Australian Region, Neotropical Region, Oriental Region.

*Pseudodiploexochus australiensis* (Vandel, 1973)

*Hybodillo australiensis* Vandel, 1973).

Taxonomic decision for new combination: Schmalzfuss (2003: 255).

*Pseudodiploexochus pacificus* Lewis, 1998

Schmalzfuss (2003: 256) confirmed generic placement; moved from *incertae sedis*.

*Pyrgoniscus* Kinahan, 1859

Type species: Spelling is *Pyrgoniscus cinctutus* (AJAG, 8 September 2003).

Alternative arrangement references: Lillemets & Wilson (2002) treated *Merulana* as junior synonym of *Pyrgoniscus*.

*Pyrgoniscus intermedius* Lewis, 1998

Available name: Spelling is *Pyrgoniscus intermedius* (AJAG, 8 September 2003)

*Pyrgoniscus scopelicus* Lillemets & Wilson, 2002

*Pyrgoniscus scopelicus* Lillemets & Wilson, 2002: 86.

Type data: holotype AM male, paratype(s) AM 3 males, 6 females.

Type locality: Ball's Pyramid, near Lord Howe Island.

Distribution: Lord Howe Island.

Ecology: terrestrial.

*Schismadillo* Verhoeff, 1926

*Schismadillo spinosus* (Lewis, 1992)

Species available name: The comment "In its current combination *Schismadillo spinosus* (Lewis, 1992) is a junior subjective synonym of *S. spinosus* (Dana, 1853) ..." no longer applies as *Sphaerodillo spinosus* Dana, 1853 was placed in *Acanthodillo* Verhoeff, 1926 by Vandel (1973).

*Sphenodillo* Lewis, 1998

Type species: See too discussion by Lillemets & Wilson (2002).

*Stigmops* Lillemets & Wilson, 2002

*Stigmops* Lillemets & Wilson, 2002: 75.

Type species: *Stigmops polyvelota* Lillemets & Wilson, 2002 by original designation.

*Stigmops demiclavula* (Lewis, 1998)

Taxonomic decision for new combination: Lillemets & Wilson (2002: 85), moved from *incertae sedis*.

Distribution: Lord Howe Island.

Ecology: terrestrial.

*Stigmops howensis* (Lewis, 1998)

Taxonomic decision for new combination: Lillemets & Wilson (2002: 85), moved from *incertae sedis*.

Distribution: Lord Howe Island.

Ecology: terrestrial.

*Stigmops odontotergina* Lillemets & Wilson, 2002

*Stigmops odontotergina* Lillemets & Wilson, 2002: 79.

Type data: holotype AM male, paratype(s) AM several specimens.

Type locality: Mount Gower, Lord Howe Island.

Distribution: Lord Howe Island.

Ecology: terrestrial.

***Stigmops polyvelota*** Lillemetts & Wilson, 2002

*Stigmops polyvelota* Lillemetts & Wilson, 2002: 75.

Type data: holotype AM male, paratype(s) AM 2 females, 1 male.

Type locality: Mount Gower, Lord Howe Island, 600-650 metres.

Distribution: Lord Howe Island.

Ecology: terrestrial.

*Venezillo* Verhoeff, 1926

*Venezillo parvus* (Budde-Lund, 1885)

General references: Schmidt (2003) reillustrated the species.

*Incertae sedis*

***Armadillo microps*** Budde-Lund, 1904: 114.

Budde-Lund's description of pereonal epimeron 1 excludes this species from *Armadillo*. The species may be a synonym of *Cubaris murina* [AJAG 15 June 2004].

Type data: syntypes ZMB number of specimens not recorded, ZMH number of specimens not recorded.

Type locality: Telang, Borneo [Sarawak, Malaysia], Peak Downs, New Holland [Qld, Australia].

#### ARMADILLIDIIDAE Brandt, 1833

*Eluma* Budde-Lund, 1885

***Eluma caelatum*** (Miers, 1877)

*Armadillidium caelatum* Miers, 1877: 655.

Type data: syntypes BMNH 2 males, 1 female.

Type locality: Cayenne.

*Eluma purpurascens* Budde-Lund, 1885: 48.

Taxonomic decision for synonymy: Collinge (1917: 115); Schmalfuss (2003: 107). For alternative taxonomic arrangement, see Vandel (1962: 756) who doubted synonymy and whose view that the two names were synonyms was followed by Green et al. (2002).

Distribution: French Guiana; widespread exotic.

Ecology: leaf litter.

#### CYCLISTICIDAE Verhoeff, 1949

*Cyclistus convexus* (De Geer, 1778)

General references: Schmidt (2003) reillustrated the species.

#### TRACHELIPODIDAE Strouhal, 1953

*Nagaroides* Wahrberg, 1922

Alternative arrangement reference: Schmalfuss (2003) placed species in *Nagarus* Holthuis, 1949.

#### ARMADILLOIDEA UNPLACED

*Hemiporcellio strzelecki* Chilton, 1917

Alternative arrangement reference: Schmalfuss (2003) placed species in *Agnara* Budde-Lund, 1908; Ferrara & Taiti (1996) placed *Agnara* in Trachelipodidae; Schmidt (2002) made *Agnara* type genus of Agnaridae, n. fam.

#### ONISCOIDEA Latreille, 1802

#### ALLONISCIDAE Schmidt, 2003

Alloniscidae Schmidt, 2003: 5.

Diagnosis: See Schmidt (2003).

*Alloniscus* Dana, 1854

Taxonomic arrangement reference: Schmidt (2003).

*Alloniscus oahuensis* Budde-Lund, 1885

Taxonomic arrangement reference: Schmidt (2003).

*Alloniscus pallidulus* Budde-Lund, 1885

Taxonomic arrangement reference: Schmidt (2003).

General reference: Schmidt (2003) redescribed species.

#### DETONIDAE Budde-Lund, 1906

Detoninae Budde-Lund, 1906: 84, published as subfamily of Oniscidae.

For taxonomic arrangement, see Schmidt (2002: 328, family revived).

Diagnosis: See Schmidt (2002).

*Armadilloniscus* Uljanin, 1875

Taxonomic arrangement reference: Schmidt (2002).

*Armadilloniscus binodulus* Lewis, 1992

Taxonomic arrangement reference: Schmidt (2002).

*Armadilloniscus ornatocephalus* Lewis, 1992

Taxonomic arrangement reference: Schmidt (2002).

*Deto* Guérin-Méneville, 1836

Taxonomic arrangement reference: Schmidt (2002).

*Deto marina* (Chilton, 1884)

Taxonomic arrangement reference: Schmidt (2002).

General references: Schmidt (2002) reillustrated species.

#### HALOPHILOSCIIDAE Verhoeff, 1908

*Halophiloscia couchii* (Kinahan, 1858)

General references: Schmidt (2003) reillustrated species.

#### ONISCIDAE Latreille, 1802

*Hanoniscus* Budde-Lund, 1912

Alternative taxonomic arrangement: Schmalfuss (2003) placed genus in Crinocheta, family uncertain.

#### PHILOSCIDAE Kinahan, 1857

*Eurygaster* Green, 1990

Alternative taxonomic arrangement: Schmalfuss (2003) erroneously spelled genus name *Eurygaster* and remarked that *Eurygaster* [sic] Green, 1990 is a junior synonym of *Eurygaster* Laporte, 1832 [Hemiptera, Pentatomidae]

*Andricophiloscia* Vandel, 1973

Misspelled *Andriphiloscia* by Green et al. (2002).

Taxonomic arrangement reference: Taiti & Humphreys' (2001) placement in Philosciidae accepted.

*Andricophiloscia pedisetosa* Taiti & Humphreys, 2001

Genus misspelled *Andriphiloscia* by Green et al. (2002).

Taxonomic arrangement reference: Taiti & Humphreys' (2001) placement in Philosciidae accepted.

*Andricophiloscia stepheni* (Nicholls & Barnes, 1926)

Genus misspelled *Andriphiloscia* by Green et al. (2002).

Types: syntypes WAM C25012 10 males, 8 females

Taxonomic arrangement reference: Taiti & Humphreys' (2001) placement in Philosciidae accepted.

## SCYPHACIDAE Dana, 1852

Introduction: *Actaecia* was placed in its own family, Actaecidae, by Vandel (1952), a view followed by Lewis & Green (1994). Schmidt (2002) synonymised Actaeciidae with Scyphacidae. Vandel (1964) claimed that there are pseudotracheae in the pleopods of *Actaecia*. Erhard (1995), however, stated that *Actaecia* have no lungs, although his figures of *A. bipleura* (named here as *A. pallida*) show respiratory areas in its pleopodal exopods. The difference in interpretation of the pleopods needs to be resolved.

Taxonomic arrangement: Schmidt (2002) restricted family to *Scyphax*, *Actaecia* and *Haloniscus*; Schmalfuss (2003) included six genera in the family.

### *Actaecia* Dana, 1853

Taxonomic arrangement: Genus placed in this family (Schmidt, 2002, 2003) and not in Actaeciidae as by Green et al. (2002).

*Actaecia bipleura* Lewis & Green, 1994; *A. cyphotelson* Lewis & Green, 1994; *A. formida* Lewis & Green, 1994; *A. nasuta* Lewis & Green, 1994; *A. pallida* Nicholls & Barnes, 1926; and *A. thomsoni* Green, 1966.

Taxonomic arrangement: All species placed in this family (Schmidt, 2002, 2003) and not in Actaeciidae as by Green et al. (2002).

*Alloniscus* Dana, 1854, *Alloniscus oahuensis* Budde-Lund, 1885 and *Alloniscus pallidulus* Budde-Lund, 1885 removed to Alloniscidae.

*Armadilloniscus* Uljanin, 1875, *Armadilloniscus binodulus* Lewis, 1992 and *Armadilloniscus ornatoccephalus* Lewis, 1992 removed to Detonidae

*Deto* Guérin-Méneville, 1836 and *Deto marina* (Chilton, 1884) removed to Detonidae.

### *Haloniscus* Chilton, 1920

Taxonomic arrangement reference: Taiti & Humphreys' (2001) placement in Scyphacidae now recognised.

### *Haloniscus longiantennatus* Taiti & Humphreys, 2001

*Haloniscus longiantennatus* Taiti & Humphreys, 2001: 139.

Type data: holotype WAM male, paratype(s) WAM several specimens.

Type locality: WA, Murchison region, Lake Way.

Distribution: WA (NW coastal).

Ecology: underground water.

### *Haloniscus searlei* Chilton, 1920

Taxonomic arrangement reference: Taiti & Humphreys' (2001) placement in Scyphacidae now recognised.

### *Haloniscus stilifer* Taiti & Humphreys, 2001

*Haloniscus stilifer* Taiti & Humphreys, 2001: 142.

Type data: holotype WAM female, paratype(s) WAM male.

Type locality: WA, Murchison region, Lake Way.

Distribution: WA (NW coastal).

Ecology: underground water.

### *Haloniscus tomentosus* Taiti & Humphreys, 2001

*Haloniscus tomentosus* Taiti & Humphreys, 2001: 136.

Type data: holotype WAM male.

Type locality: WA, Murchison region, abandoned Cue water supply bores.

Distribution: WA (NW coastal).

Ecology: underground water.

## ONISCOIDEA: UNPLACED

*Andriphiloscia* Vandel, 1973, *Andriphiloscia pedisetosa* Taiti & Humphreys, 2001 and *Andriphiloscia stepheni* (Nicholls & Barnes, 1926): genus name misspelled and now removed to Philosciidae *Andricophiloscia*.

*Haloniscus* Chilton, 1920 and *Haloniscus searlei* Chilton, 1920 removed to Scyphacidae.

## TANAIDACEA Hansen, 1895

## ASEUDOMORPHA Sieg, 1980

## APSEUDIDAE Leach, 1814

### *Gollumedes* Bamber, 2000

*Gollumedes* Bamber, 2000.

Type species: *Apseudes mortoni* Bamber, 1997 by original designation.

### *Gollumedes larakia* (Edgar, 1997)

*Apseudes larakia* Edgar, 1997: 279.

Type data: holotype NTM female, paratypes NTM 18 specimens, NMV 7 specimens.

Type locality: East Point, Darwin Harbour, 7 m depth.

Distribution: 200 m bathymetric (N coast).

Ecology: infralittoral fringe.

## NUMBAKULLIDAE Gutu & Heard, 2002

Numbakullidae Gutu and Heard, 2002: 94.

Diagnosis: See Gutu & Heard (2002).

### *Numbakulla* Gutu & Heard, 2002

*Numbakulla* Gutu & Heard, 2002: 95.

Type species: *Numbakulla pymaeus* Gutu & Heard, 2002 by original designation.

### *Numbakulla pymaeus* Gutu & Heard, 2002

*Numbakulla pymaeus* Gutu & Heard, 2002: 95).

Type data: holotype AM female, paratype(s) AM 1 male, 2 females.

Type locality: northwestern continental shelf, Australia, 84 m depth.

Distribution: 200 m bathymetric (NW coast).

Ecology: continental shelf.

## PARAPSEUDIDAE Gutu, 1981

### *Pseudohalmyrapseudes* Larsen & Hansknecht, 2004

*Pseudohalmyrapseudes* Larsen & Hansknecht, 2004: 568.

Type species: *Pseudohalmyrapseudes aquadulcis* Larsen & Hansknecht, 2004 by original designation.

### *Pseudohalmyrapseudes aquadulcis* Larsen & Hansknecht, 2004

*Pseudohalmyrapseudes aquadulcis* Larsen & Hansknecht, 2004: 568.

Type data: holotype AM female, paratype(s) AM several.

Type locality: NT, Berry Springs.

Distribution: NT (N coastal).

Ecology: freshwater, spring.

## NEOTANAIDOMORPHA Sieg, 1980

## NEOTANAIDIDAE Lang, 1956

Neotanaididae Lang, 1956.

Diagnosis: See Lang (1956) and Larsen (1999).

**Neotanais** Beddard, 1886

*Neotanais* Beddard, 1886: 117.

Type species: *Neotanais americanus* Beddard, 1886 by monotypy.

**Neotanais noelietaiti** Larsen & Hansknecht, 2003

*Neotanais noelietaiti* Larsen and Hansknecht, 2003: 2800).

Type data: holotype NMV female, paratype(s) NMV 10 females.

Type locality: off E Tasmania, 1840 m depth.

Distribution: 200 mile fishing zone (SE oceanic).

Ecology: continental slope.

TANAIDOMORPHA Sieg, 1980

PARATANAIDAE Lang, 1949

**Bathytanais** Beddard, 1886

**Bathytanais arenamans** Larsen & Heard, 2001

*Bathytanais arenamans* Larsen & Heard, 2001: 8.

Type data: holotype AM female, paratype(s) AM numerous specimens.

Type locality: North West Shelf [19°56.7'S 117°53.6'E], 41 m depth.

Distribution: 200 m bathymetric (NW coast).

Ecology: continental shelf.

**Bathytanais culterformis** Larsen & Heard, 2001

*Bathytanais culterformis* Larsen & Heard, 2001: 3.

Type data: holotype AM female, paratype(s) AM numerous specimens.

Type locality: North West Shelf [19°56.7'S 117°53.6'E], 41 m depth.

Distribution: 200 m bathymetric (NW coast).

Ecology: continental shelf.

**Bathytanais fragilis** Larsen & Heard, 2001

*Bathytanais fragilis* Larsen & Heard, 2001: 12.

Type data: holotype NMV female, paratype(s) NMV 3 females.

Type locality: off southern NSW [36°57.4'S 150°18.8'E], 220 m depth.

Distribution: 200 m bathymetric (Bass Strait), 200 mile fishing zone (SE oceanic).

Ecology: continental shelf, continental slope.

SPELAEOGRIPHACEA Gordon, 1957

SPELAEOGRIPHIDAE Gordon, 1957

**Mangkurtu** Poore & Humphreys, 1998

**Mangkurtu kutjarra** Poore & Humphreys, 2003

*Mangkurtu kutjarra* Poore & Humphreys, 2003: 68.

Type data: holotype WAM male, paratypes WAM several specimens, NMV several specimens.

Type locality: Pilbara region, Fortescue River Valley, Battle Hill Well.

Distribution: WA (NW coastal).

Ecology: underground water.

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