

Catalogue of type specimens of worms (Phyla: Platyhelminthes, Nematoda and Annelida) in the Western Australian Museum, Perth.

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Abstract

Information is presented pertaining to 176 registered type specimen lots of 103 species or subspecies of worms held in the Western Australian Museum collection. A further 28 specimen lots of 15 species or subspecies are of uncertain or invalid type status. Original authors and subsequent emendations are indicated. Four type lots could not be located.

Introduction

At the time of writing, the Western Australian Museum (WAM) does not possess a Department responsible solely for worms. Worms are presently lodged with the Department of Carcinology. A catalogue of WAM crustacean type specimens has been prepared by Jones, D. (1986) and this paper provides similar information for the type specimens of worms (Phyla Platyhelminthes, Nematoda and Annelida) in the WAM collection.

The format is similar to that of Jones, D. (1986). Phyla and classes are arranged in taxonomic sequence based upon Barnes (1974). While polychaete orders are used by some authors (e.g. Fauchald, 1977), family sequence is used for convenience in this paper, based upon Day (1967) and Hutchings and Murray (1984). Oligochaete orders and families are based on Brinkhurst and Jamieson (1972). Genera are ordered alphabetically within families and species alphabetically within genera.

Species are listed by their original published name. Discrepancies between labelled or registered information and that cited in publications are indicated in Remarks, as are changes to nomenclature subsequent to original description and, where determinable, locality of other type material. Designation of holotype, syntypes and paratypes follows Jones, D. (1986) and the International Code of Zoological Nomenclature, Article 73 and Recommendation 73D. Where originally designated, allotypes are also listed. Unpublished manuscript names are not included in the catalogue.

Where information pertaining to type material has been published in a language other than English, the data have been translated into English, though not necessarily verbatim. Latitudes and longitudes of collection sites are rarely cited by

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original authors and have been included where sites can be accurately placed. Unless otherwise stated, type material is stored in 75% (v/v) ethanol in glass jars.

Several specimen lots, especially oligochaetes described by Jackson (1931), have been labelled and registered as 'probably type material'. These lots are listed under the heading of 'Uncertain type status'.

Inglis (1971) described seven new species of enoplid nematodes and stated that holotypes and some paratypes were lodged in the WAM collection. These specimens could not be located nor are they registered. Inglis (1971) recorded lodgement of other paratypes with the British Museum (Natural History), but neither those specimens nor the purported WAM material are with that institution. The fate of these types is unknown.

The following institutional abbreviations are employed in the text: AM, Australian Museum, Sydney; BMNH, British Museum (Natural History), London; HZM, Zoologisches Institut and Zoologisches Museum, University of Hamburg; USNM, United States National Museum, Smithsonian Institution, Washington D.C.; WAM, Western Australian Museum, Perth.

List of type specimens

Phylum Platyhelminthes

Class Turbellaria

Order Seriata

Family Planariidae

Planaria böhmigi Weiss, 1909: 407. Syntype, 1 WAM 7158. Locality: Gooseberry Hill, WA, 31°59'S, 116°04'E. 31.v.1905.

Remarks: Not in genus *Planaria* sens. str. (see Hyman, 1951) but synonymy could not be traced.

Planaria hoernesii Weiss, 1909: 405. Syntypes, 4 WAM 7180. Locality: Boyanup, WA, 33°29'S, 115°44'E. From freshwater. 1.viii.1905.

Remarks: As for *Planaria böhmigi*.

Planaria pinguis Weiss, 1909: 408. Syntypes, 4 WAM 7181. Locality: Jarrahdale, WA, 32°20'S, 116°04'E. From small fast flowing stream. 20.ix.1905.

Remarks: As for *Planaria böhmigi*.

Order Neorhabdocoela

Family Typhloplanidae

Mesostoma michaelsoni Weiss, 1909: 404. Syntypes, 3 WAM 7186. Locality: Boorabbin, WA, 31°12'S, 120°19'E. From rainwater channel off granite. 3.vii.1905.

Phylum Nematoda
Class Adenophorea
Order Chromadorida
Family Chromadoridae

Euchromadora eileenae Inglis, 1969: 193, Figs 31-37, 94-95. Holotype, WAM 4-70. Locality: Sarge Bay, Cape Leeuwin, WA, 34°22'S, 115°08'E. From weed and silt of exposed beach, 0.6 m. 1967. Paratypes, several WAM 5-70. Locality: Radar Reef, Strickland Bay, Rottneest Island, WA, 32°00'S, 115°30'E. From weed on coral of reef, 0.6-1.0 m. 17.iii.1967.

Remarks: Type locality cited by Inglis (1969) as that of paratypes.

Graphonema georgei Inglis, 1969: 195, Figs 80-84, 96, 99. Holotype, WAM 6-70. Locality: Goode Beach, Albany, WA, 35°05'S, 117°56'E. From weed and sand in algal holdfasts on exposed rocks. 1.xi.1966.

Hypodontolaimus slacksmithi Inglis, 1969: 197, Figs 56-59, 102-109. Holotype, WAM 3-70. Locality: Shark Bay, midway between Dirk Hartog Island and Denham, WA, 25°50'S, 113°20'E. From weed and sand, trawled from 12 m.

Parapinnanema wilsoni Inglis, 1969: 194, Figs 51-55, 66-72, 73-75, 97-98. Holotype, WAM 17-70. Paratypes, several WAM 18-70. Locality: Sarge Bay, Cape Leeuwin, WA, 34°22'S, 115°08'E. From weed and sand, exposed beach, 0.6 m. 31.x.1966. Paratypes, several WAM 23-70. Locality: Bunker Bay, Cape Naturaliste, WA, 33°32'S, 115°02'E. From finger-like green algae, in rock pools. 29.x.1966.

Order Diectophymatida
Family Diectowittidae

Diectowittus denisoniae Jones, 1978b: 141, Figs 1-10. Holotype, ♂ WAM 23-79. Allotype, ♀ WAM 24-79. Locality: King Edward River, Kimberley District, WA, 15°33'S, 126°09'E. From peritoneal cavity of snake *Denisonia punctata* (WAM R53725). 1976.

Class Secernentea
Order Oxyurida
Family Oxyuridae

Parathelandros carinae Inglis, 1968b: 176, Figs 11, 12, 16, 20, 29, 32. Holotype, WAM 14-70. Paratypes, many WAM 1-83. Locality: 29 mile peg from Perth, on Northam Road. From rectum of *Helioporus inornatus*. 1966-1967.

Remarks: Type locality cited by Inglis (1968b) as Bakers Hill, Northam. Type host cited as *Helioporus albopunctatus*; *H. inornatus* not cited as a host of *Parathelandros carinae*. Paratypes also in BMNH.

Parathelandros johnstoni Inglis, 1968b: 175, Figs 21, 22, 30. Holotype, WAM 15-70. Paratypes, ca. 30 WAM 2-83. Locality: Sheepwash Creek, 25 km north-east of Denmark on Mt Barker Road, WA, 34°45'S, 117°30'E. From rectum of *Helioporus eyrei*. 1966-1967.

Remarks: Type locality cited by Inglis (1968b) as Bibra Lake, WA.

Parathelandros maini Inglis, 1968b: 176, Figs 10, 14, 24-26. Holotype, WAM 16-70. Paratypes, ca. 10 WAM 3-83. Locality: Near Garratt Road Bridge, Bayswater, Perth, WA. 31°56'S, 115°55'E. From rectum of *Hyla moorei*. 23.v.1966.

Remarks: Type locality cited by Inglis (1968b) as swamp in Hardy Road, Cloverdale, WA.

Order Spirurida
Family Diplotriaenidae

Hastospiculum drysdaliae Jones, 1980: 429, Figs 4-10. Holotype, ♂ WAM 26-79. Allotype, ♀ WAM 27-79. Paratypes, 2 ♀♀ WAM 28-79. Locality: North Twin Peaks Island, Recherche Archipelago, WA. 37°59'S, 122°50'E. From peritoneum of posterior end of stomach of snake *Drysdalia coronata* (WAM R53092). 9.v.1976.

Remarks: Type locality mistakenly cited (Jones, 1980) as 33°97'S, 122°85'E.

Family Physalopteridae

Abbreviata aechmespiculum Jones, 1978a, Figs 7-11. Holotype, ♂ WAM 29-77. Paratype, 1 immature WAM 29-77. Locality: Near Canning Dam, WA 32°10'S, 116°08'E. From stomach of *Acanthophis antarcticus* (WAM R25080). 7.v.1965.

Abbreviata anomala Jones, 1986: 694, Figs 15-22. Holotype, ♂ WAM 182-85. Allotype, ♀ WAM 183-85. Paratypes, 5 ♂♂, 6 ♀♀ WAM 184-85. Locality: 3 km west of Boorabbin, WA, 31°12'S, 120°18'E. From stomach of *Pogona minor minor* (WAM R21705). 2.xi.1963.

Abbreviata barrowi Jones, 1978a: 791, Figs 1-6. Holotype, ♂ WAM 6-77. Allotype, ♀ WAM 7-77. Paratypes, ca. 40 WAM 5-77, ca. 60 WAM 8-77, ca. 60 WAM 9-77. Locality: Barrow Island, WA, 20°50'S, 115°25'E. From stomach of *Pseudechis australis* (WAM R28696). i.1967. Paratypes, ca. 40 WAM 4-77. Locality: Turee Creek, WA. From *Pseudechis australis* (WAM R22735). x.1963. Paratypes, 40 (+120 larvae) WAM 10-77. Locality: Kumarina, WA, 24°42'S, 119°38'E. From *Pseudechis australis* (WAM R25151). 8.iii.1965. Paratypes, 50 (+35 larvae) WAM 11-77. Locality: Kumarina, WA. From *Pseudechis australis* (WAM R22731). iii.1964. Paratypes, ca. 100 WAM 12-77. Locality: Albion Downs

- Station, WA, 27°17'S, 120°23'E. From *Pseudechis australis* (WAM R30981). xii.1967. Paratype, ♀ WAM 13-77. Locality: Point Coulomb, north of Broome, WA, 17°22'S, 122°09'E. From stomach of *Pseudonaja nuchalis* (WAM R40275). 1971.
 Remarks: *Abbreviata occidentalis* in same host as WAM 5-77, 6-77, 7-77, 8-77 and 9-77. *Abbreviata* sp. in same host as WAM 13-77. Host of WAM 10-77 cited by Jones (1978a) as WAM R25191.
- Abbreviata kumarinae*** Jones, 1978a: 796, Figs 17, 18. Holotype, ♂ WAM 28-77. Locality: Kumarina, WA, 24°42'S, 119°38'E. From stomach of *Pseudechis australis* (WAM R25151). 8.iii.1965.
 Remarks: *Abbreviata barrowi* WAM 10-77 in same host.
- Abbreviata levicauda*** Jones, 1983: 286, Figs 1-7. Holotype, ♂ WAM 84-79. Allotype, ♀ WAM 85-79. Paratypes, 17 ♂♂ WAM 86-79, 23 ♀♀ WAM 87-79. Locality: 70 km south-south-west of Balladonia, WA, 33°10'S, 123°45'E. From stomach of *Varanus rosenbergi* (WAM R60375). 28.ii.1978.
 Remarks: Holotype could not be located.
- Abbreviata occidentalis*** Jones, 1978a: 794, Figs 12-16. Holotype, ♂ WAM 14-77. Allotype, ♀ WAM 15-77. Paratypes, 40 WAM 16-77. Location: Barrow Island, WA, 20°50'S, 115°25'E. From stomach of *Pseudechis australis* (WAM R28696). i.1967. Paratypes, 2 ♂♂, 3 ♀♀ WAM 17-77. Location: Esperance, WA, 33°51'S, 121°54'E. From *Notechis scutatus* (WAM R12338). 19.xii.1956. Paratypes, 15 WAM 18-77. Location: Mundaring, WA, 31°54'S, 116°10'E. From *Notechis scutatus* (WAM R19499). 1963. Paratypes, 2 ♀♀ WAM 19-77. Location: York, WA, 31°53'S, 116°46'E. From *Pseudechis australis* (WAM R22900). ix.1964. Paratypes, ca. 150, WAM 20-77. Locality: Mt Lawley, Perth, WA, 31°55'S, 115°50'E. From *Pseudechis australis* (WAM R2111). 1927. Paratypes, 75 WAM 21-77. Locality: Unknown. From *Pseudechis australis* (WAM R576).
 Remarks: Species synonymised with *A. antarctica* (Linstow, 1899) by Jones (1983). Host of WAM 17-77 and 18-77 cited by Jones (1978a) as *Notechis ater*. *Abbreviata barrowi* in same host as WAM 14-77, 15-77 and 16-77.
- Abbreviata perenticola*** Jones, 1985a: 380, Figs 1-9. Holotype, ♂ WAM 115-84. Allotype, ♀ WAM 116-84. Paratypes, 127 (+ 28 larvae) WAM 116-84. Locality: West face of Kennedy Range, WA, 24°31'S, 114°58'E. From gastrointestinal tract of *Varanus giganteus* (WAM R81668). 7.xi.1982.
- Abbreviata pilbarensis*** Jones, 1986: 691, Figs 6-14. Holotype, ♂ WAM 111-85. Allotype, ♀ WAM 112-85. Paratypes, 12 ♂♂, 29 ♀♀ WAM 113-85. Locality: Mallina Station, 110 km south of Port Hedland, WA, 20°51'S, 118°02'E. From stomach of *Pogona minor mitchelli*. 7.xi.1982.
- Abbreviata tumidocapitis*** Jones, 1983: 288, Figs 8-15. Holotype, ♂ WAM 34-80. Allotype, ♀ WAM 35-80. Paratypes, 5 ♂♂, 6 ♀♀, 5 larvae WAM 36-80. Locality:

10 km east of Yamarna Homestead, WA, 27°95'S, 123°90'E. From stomach of *Varanus gouldii* (WAM R53584). 21.iii.1976. Paratypes ?, 3 ♂♂, 3 ♀♀ WAM 37-80. Locality: 4 km north of Jyndabinbin Rock Hole, WA. 32°26'S, 122°04'E. From stomach of *Varanus gouldii* (WAM R62225). 31.x.1978. Paratypes ?, 1 ♂, 1♀, WAM 38-80. Locality: 70 km south-south-west of Balladonia, WA, 33°10'S, 123°45'E. From stomach of *Varanus rosenbergi* (WAM R60375).
 Remarks: WAM 37-80 and 38-80 labelled and registered as paratypes but not cited as such by Jones (1983). *Abbreviata levicauda* in same host as WAM 38-80. All specimens labelled *Abbreviata tumidoesophagus*.

Kreisiella chrysocampa Jones, 1985b: 1231, Figs 1-9. Holotype, ♂ WAM 62-84. Allotype, ♀ WAM 63-84. Locality: 100 km northeast of Laverton, WA, 28°12'S, 123°36'E. From stomach of *Egernia inornata* (WAM R3827). 8.iii.1979. Paratypes, numerous WAM 65-84 to 76-84. Locality: Ibid. From 12 *E. inornata*.
 Remarks: Holotype incorrectly printed in Jones (1985b) as ♀, WAM 62-64. Type species of genus.

Kreisiella lesueurii Jones, 1986: 697, Figs 23-31. Holotype, ♂ WAM 192-85. Allotype, ♀ WAM 193-85. Paratypes, 2 ♂♂, 6 ♀♀ WAM 194-85. Locality: Mt Lesueur, WA, 30°10'S, 115°12'E. From gastrointestinal tract of *Pogona minor minor* (WAM R48439). 2.xi.1973.

Physalopteroides filicauda Jones, 1985b: 1234, Figs 10-19. Holotype, ♂ WAM 77-84. Allotype, ♀ WAM 78-84. Paratypes, 6 ♂♂, 23 ♀♀, 3 larvae WAM 79-84. Locality: 100 km northeast of Laverton, WA, 28°12'S, 123°36'E. From stomach of *Nephrurus laevissimus* (WAM R3794). 6.iii.1979.

Order Strongylida

Family Amidostomatidae

Mackerrastrongylus mawsonae Inglis, 1968a: 341, Figs 31, 32, 36-38, 39-43. Holotype, WAM 10-70. Paratypes, 12 WAM 11-70. Locality: Shepherd Road, Glen Forest, WA, 31°55'S, 116°06'E. From caecum of *Isoodon obesulus*. 10.viii.1967.

Remarks: Paratypes also in BMNH.

Mackerrastrongylus waringi Inglis, 1968a: 339, Figs 22, 25-30, 33-35. Holotype, WAM 8-70. Paratypes, several WAM 9-70. Locality: Ginn Road, Mundaring Forest Reserve, WA, 31°57'S, 116°10'E. From intestine of *Dasyurus geoffroyi*. 10.v.1966.

Remarks: *Mackerrastrongylus mawsonae* present in same host. Paratypes also in BMNH.

Nicollina cathiae Inglis, 1968a: 338, Figs 18-21, 23, 24. Holotype, WAM 12-70. Paratypes, 34 WAM 13-70. Locality: Base of Mt Grungin, near Mundaring, WA,

31°54'S, 116°10'E. From small intestine, first 140 mm after stomach, of *Dasyurus geoffroyi*. 10.v.1966.

Remarks: Paratypes also in BMNH.

Nicollina ridei Inglis, 1968a: 337, Figs 14-17. Holotype, WAM 19-70. Paratypes, ? WAM 20-70. Locality: Walter Road, Morley Park, Perth, WA, 31°53'S, 115°54'E. From small intestine, first 250 mm posterior of stomach, of *Tachyglossus aculeatus*. 10.viii.1966.

Remarks: Specimens could not be located. Not in BMNH.

Phylum Annelida
Class Polychaeta
Family Polynoidae

Lepidonotus brunneus Day, 1975: 181, Fig. 2 g-k. Holotype, WAM 42-72. Locality: Woodman Point groyne, Cockburn Sound, WA, 32°08'S, 115°43'E. From *Caulerpa*, 0-1.0 m. 13.ii.1972.

Remarks: Unique type.

Lepidonotus jolli Day, 1975: 173, Fig. 1 a-f. Holotype, WAM 129-74. Locality: North Point, Rottnest Island, WA, 32°00'S, 115°31'E. From seaweed on limestone reef platform, 0.5 m. 7.vii.1971. Paratypes, 22 WAM 79-72. Locality: Rottnest Island, Cottesloe and Cockburn Sound, WA. 1971-72.

Remarks: Paratypes also at University of Cape Town and USNM.

Family Chrysopetalidae

Bhawania multisetosa Hartmann-Schröder, 1981: 20, Figs 2-6. Paratype, 1 WAM 1-81. Locality: Near Chinaman Rock, Kalbarri, WA, 27°45'S, 114°08'E. From algae on rock platform. 16.x.1975.

Remarks: Specimen incomplete. Holotype and 3 paratypes in HZM.

Family Phyllodoceidae

Eulalia microphylloides Hartmann-Schröder, 1979: 81, Text figs 19-22. Paratypes, 3 WAM 2-79. Locality: Gantheaume Point, Broome, WA, 17°58'S, 122°14'E. From lower littoral, on rock platform near lighthouse. 24.ix.1975.

Remarks: Holotype and 27 paratypes in HZM.

Phyllodoce australis Day, 1975: 187, Fig. 3 a-c. Holotype, WAM 78-72. Locality: North Point, Rottnest Island, WA, 32°00'S, 115°30'E. From seaweed on limestone reef platform, 0.3-0.6 m. 30.vi.1971. Paratypes, 6 WAM 130-74. Locality: Unknown. 11.ix.1974.

Remarks: Type locality cited by Day (1975) as Cottesloe, Perth. Paratype number cited as 3.

Family Pilargidae

Sigambra pettiboneae Hartmann-Schröder, 1979: 84, Text figs 37-42. Paratype, 1 WAM 3-79. Locality: In front of Mangrove Motel, Broome, WA, 17°58'S, 122°14'E. From mangrove swamp, upshore flat with sand and plant detritus. 24.ix.1975.

Remarks: Holotype and 4 paratypes in HZM.

Family Syllidae

Brania longisetosa Hartmann-Schröder, 1979: 102, Text figs 136-137. Paratypes, 2 WAM 8-79. Locality: In front of Highway Motel, Port Hedland, WA, 20°19'S, 118°34'E. From fossil reef platform, in sand and detritus. 30.ix.1975.

Remarks: Hartmann-Schröder (1979) cited 1 paratype in WAM 8-79. Collection date cited as 27.ix.1975. Holotype and 3 paratypes in HZM.

Brania opisthodentata Hartmann-Schröder, 1979: 101, Text figs 134-135. Paratype, 1 WAM 9-79. Locality: East end of Port Hedland, WA, near mouth of Pretty Pool. 20°19'S, 118°34'E. From sandflat with coarse sand and shell grit, middle littoral. 28.ix.1975.

Remarks: Holotype and 2 paratypes in HZM.

Exogone heterosetoides Hartmann-Schröder, 1979: 110, Text figs 171-174. Paratype, 1 WAM 12-79. Locality: Broome, WA, 500 m from *Avecennia* mangroves. 17°58'S, 122°14'E. From fine sand flat with plant detritus. 8.ix.1975.

Remarks: Hartmann-Schröder (1979) cited 2 paratypes in WAM 12-79. Holotype and 5 paratypes in HZM.

Exogone spinisetosa Hartmann-Schröder, 1981: 39, Figs 77-79. Paratypes, 2 WAM 8-81. Locality: Cape Burney, near mouth of Greenough River, south of Geraldton, WA, 28°52'S, 114°38'E. From algae on rock platform. 18.x.1975.

Remarks: Holotype and 7 paratypes in HZM, 2 paratypes in AM.

Odontoautolytus annulatus Hartmann-Schröder, 1979: 112, Text figs 178-182. Paratype, 1 WAM 13-79. Locality: East end of Port Hedland, WA, near mouth of Pretty Pool. 20°19'S, 118°34'E. From sandflat with coarse sand and shell grit, middle littoral. 28.ix.1975.

Remarks: Holotype and 2 paratypes in HZM.

Odontosyllis globulocirrata Hartmann-Schröder, 1981: 31, Figs 49-51. Paratypes, 2 WAM 3-81. Locality: Cervantes, WA, 30°30'S, 115°05'E. From *Posidonia* and fine sand. 24.x.1975.

Remarks: Holotype and 9 paratypes in HZM.

Odontosyllis langerhansiaesetosa Hartmann-Schröder, 1979: 94, Text figs 91-96. Paratypes, 2 WAM 5-79. Locality: In front of Mangrove Motel, Broome, WA, 17°58'S, 122°14'E. From mangrove swamp, in sand and detritus. 24.ix.1975.

Remarks: Holotype and 6 paratypes in HZM.

Opisthodonta curticirris Hartmann-Schröder, 1983: 130, Figs 11-14. Paratype, 1 WAM 5-83. Locality: Dunsborough, Geographe Bay, WA, 33°37'S, 115°08'E. From intertidal flat of fine sand with diatomaceous layer, protected by sandbar. 9.xi.1975.

Remarks: Holotype and 3 paratypes in HZM, 1 paratype in AM.

Pionosyllis augeneri Hartmann-Schröder, 1979: 98, Text figs 119-125. Paratypes, 3 WAM 6-79. Locality: In front of Mangrove Motel, Broome, WA, 17°58'S, 122°14'E. From mangrove swamp, in sand and detritus. 24.ix.1975.

Remarks: Holotype and 10 paratypes in HZM.

Pionosyllis samsonensis Hartmann-Schröder, 1980: 52, Figs 39-43. Paratype, 1 WAM 94-79. Locality: Point Samson, WA, 20°38'S, 117°10'E. From intertidal platform in fossil reef, coarse sand with shell grit and algae. 1.x.1975.

Remarks: Holotype and 3 paratypes in HZM.

Sphaerosyllis erinaceus serratosetosa Hartmann-Schröder, 1982: 70, Text figs 57-59. Paratypes, 2 WAM 1-82. Locality: Cervantes, WA, 30°30'S, 115°05'E. From beach of fine sand and *Posidonia*, lower littoral. 24.x.1975.

Remarks: Holotype and 8 paratypes in HZM, 2 paratypes in AM.

Sphaerosyllis papillosissima Hartmann-Schröder, 1979: 108, Text figs 159-162. Paratype, 1 WAM 11-79. Locality: Derby, WA, 17°18'S, 123°38'E. From mud flat with some fine sand and plant detritus at base of harbour, lower littoral. 20.ix.1975.

Remarks: Holotype and 4 paratypes in HZM.

Sphaerosyllis sexpapillata Hartmann-Schröder, 1979: 105, Text figs 144-147. Paratypes, 2 WAM 10-79. Locality: Gantheaume Point, Broome, WA, 17°58'S, 122°14'E. From rock pools, with fine sand and detritus. 9.ix.1975.

Remarks: Holotype and 9 paratypes in HZM.

Syllides articulatus pumilus Hartmann-Schröder, 1983: 131, Figs 16-17. Paratypes, 2 WAM 4-83. Locality: Dunsborough, Geographe Bay, WA, 33°37'S, 115°07'E. From littoral *Posidonia* and *Halophila*. 9.xi.1975.

Remarks: Holotype and 28 paratypes in HZM, 2 paratypes in AM.

- Syllides articulatus spinosus* Hartmann-Schröder, 1979: 99, Text figs 126-128. Paratype, 1 WAM 7-79. Locality: East end of Port Hedland, WA, near mouth of Pretty Pool. 20°19'S, 118°34'E. From sandflat with coarse sand and shell grit, middle littoral. 28.ix.1975.
Remarks: Holotype and 2 paratypes in HZM.
- Typosyllis albanensis* Hartmann-Schröder, 1984: 16, Figs 16-19. Paratype, 1 WAM 6-84. Locality: Goode Beach, Frenchman Bay, near Albany, WA, 35°05'S, 117°56'E. From coralline and encrusting algae with sand and detritus, on rock, littoral. 21.xi.1975.
Remarks: Holotype and 3 paratypes in HZM.
- Typosyllis broomensis* Hartmann-Schröder, 1979: 88, Text figs 50-56. Paratype, 1 WAM 4-79. Locality: Broome, WA, 500 m from mangroves. 17°58'S, 122°14'E. From tidal flat of fine sand and plant detritus. 8.ix.1975.
Remarks: Holotype and 2 paratypes in HZM.
- Typosyllis busseltonensis* Hartmann-Schröder, 1982: 62, Text figs 31-35. Paratypes, 2 WAM 4-82. Locality: Eagle Bay, Cape Naturaliste, WA, 33°35'S, 115°06'E. From algae and sand on rock platform, littoral. 7.xi.1975.
Remarks: Holotype and 4 paratypes in HZM, 2 paratypes in AM.
- Typosyllis erikae* Hartmann-Schröder, 1981: 27, Figs 28-31. Paratypes, 5 WAM 7-81. Locality: Horrocks Beach, north of Geraldton, WA, 28°22'S, 114°25'E. From encrusting algae, seaweed and sand on fossil reef. 17.x.1975.
Remarks: Including chaetosyllis stage. Holotype and 27 paratypes in HZM, 5 paratypes in AM.
- Typosyllis gerhardi* Hartmann-Schröder, 1980: 51, Figs 33-38. Paratypes, 3 WAM 93-79. Locality: Near Vlaming Head lighthouse, North West Cape, WA, 21°48'S, 114°07'E. From algae and crusts on reef, littoral. 9.x.1975.
Remarks: Holotype and 6 paratypes in HZM, 2 paratypes in AM.
- Typosyllis guildertonensis* Hartmann-Schröder, 1982: 61, Text figs 26-30. Paratypes, 3 WAM 2-82. Locality: Near groyne, Guilderton, WA, 31°21'S, 115°30'E. From brown and coralline algae on rocks, littoral. 26.x.1975.
Remarks: Holotype and 47 paratypes in HZM, 3 paratypes in AM.
- Typosyllis lincolnensis* Hartmann-Schröder, 1985a: 67, Figs 7-10. Paratypes, 2 WAM 7-85. Locality: Sleaford Bay, 20 km south of Port Lincoln, SA, 34°53'S, 135°45'E. From algae on limestone platform, littoral. 3.xii.1975.
Remarks: Holotype and 8 paratypes in HZM, 2 paratypes in AM.
- Typosyllis macrodentata* Hartmann-Schröder, 1982: 60, Text figs 22-25. Paratype, 1 WAM 3-82. Locality: Near groyne, Guilderton, WA, 31°21'S, 115°30'E.

From brown and coralline algae on rocks, littoral. 26.x.1975.

Remarks: Holotype and 7 paratypes in HZM, 1 paratype in AM.

Family Nereididae

Ceratonereis perkinsi Hartmann-Schröder, 1985b: 43, Figs 24-35. Paratypes, 3 WAM 8-85. Locality: Near lighthouse, Gantheaume Point, Broome, WA, 17°59'S, 122°11'E. From coralline algae on rock platform. 9.ix.1975.

Remarks: Holotype and 25 paratypes in HZM, 3 paratypes in AM.

Family Glyceridae

Glycera derbyensis Hartmann-Schröder, 1979: 123, Text figs 248-250. Paratype, 1 WAM 14-79. Locality: Near Derby jetty, WA, 17°18'S, 123°38'E. From stone debris, upper littoral. 20.ix.1975.

Remarks: Holotype and 3 paratypes in HZM.

Family Eunicidae

Marphysa sessilobranchiata Hartmann-Schröder, 1984: 32, Figs 34-39. Paratypes, 2 WAM 7-84. Locality: Little Grove near Pelican Point, Princess Royal Harbour, Albany, WA, 35°05'S, 117°54'E. From fine sand with broken mussel shell, littoral. 22.xi.1975.

Remarks: Holotype and 14 paratypes in HZM, 2 paratypes in AM.

Family Lumbrineridae

Lumbrineris orensanzi Hartmann-Schröder, 1980: 64, Figs 64-69. Paratypes, 2 WAM 95-79. Locality: Near Vlaming Head lighthouse, North West Cape, WA, 21°48'S, 114°07'E. From algae and crusts on reef, littoral. 9.x.1975.

Remarks: Holotype and 4 paratypes in HZM, 2 paratypes in AM.

Family Orbiniidae

Orbinia felix australis Hartmann-Schröder, 1984: 33. Paratype, 1 WAM 8-84. Locality: Little Grove near Pelican Point, Princess Royal Harbour, Albany, WA, 35°05'S, 117°54'E. From fine sand with broken mussel shell, littoral. 22.xi.1975.

Remarks: Hartmann-Schröder (1984) cited 2 paratypes as lodged with WAM. Holotype and 22 paratypes in HZM, 2 paratypes in AM.

Protoariciella australiensis Hartmann-Schröder, 1981: 48, Figs 106-114. Paratype, 1 WAM 2-81. Locality: Drummonds Cove, Geraldton, WA, 28°45'S, 114°36'E.

From fine sand, amongst seagrass. 22.x.1975.

Remarks: Holotype and 4 paratypes in HZM.

Family Spionidae

Microspio occipitalis Hartmann-Schröder, 1983: 143, Figs 42-49. Paratype, 1 WAM 7-83. Locality: Peaceful Bay, Walpole, WA, 35°58'S, 116°43'E. From algae on rocks, littoral. 17.xi.1975.

Remarks: Holotype and 10 paratypes in HZM, 1 paratype in AM.

Scolelepis denmarkensis Hartmann-Schröder, 1983: 145, Figs 51-57. Paratype, 1 WAM 6-83. Locality: South end of Ocean Beach, Denmark, WA, 34°58'S, 117°21'E. From sand, littoral. 18.xi.1975.

Remarks: Hartmann-Schröder (1983) cited habitat as brown algae on rock substrate. Holotype and 4 paratypes in HZM, 1 paratype in AM.

Family Magelonidae

Magelona jonesi Hartmann-Schröder, 1980: 71, Figs 112-118. Paratype, 1 WAM 96-79. Locality: Exmouth Gulf, 24 km south of town, WA, 21°55'S, 114°09'E. From fine sand flat on reef, littoral. 10.x.1975.

Remarks: Holotype and 3 paratypes in HZM.

Family Capitellidae

Notomastus broomensis Hartmann-Schröder, 1979: 141, Text figs 326-330, Pl. 1 Fig. 6. Paratypes, 3 WAM 16-79. Locality: Willie Creek, Broome, WA, 17°58'S, 122°14'E. From estuary with mangroves, fine sand and detritus, with strong reducing layer below. 12.ix.1975.

Remarks: Holotype and numerous paratypes in HZM.

Notomastus hedlandica Hartmann-Schröder, 1979: 141, Text figs 324-325. Paratype, 1 WAM 15-79. Locality: Pretty Pool, Port Hedland, WA, 20°19'S, 118°34'E. From mangrove flat, firm mud with sand and plant detritus. 26.ix.1975.

Remarks: Holotype and 3 paratypes in HZM.

Family Ampharetidae

Neosabellides australiensis Hartmann-Schröder, 1981: 56, Figs 165-170. Paratypes, 2 WAM 6-81. Locality: Cervantes, WA, 30°30'S, 115°05'E. From sandy beach with *Posidonia*. 24.x.1975.

Remarks: Holotype and 5 paratypes in HZM, 1 paratype in AM.

Family Terebellidae

- Nicolea minima* Hartmann-Schröder, 1984: 44, Fig 53. Paratypes, 3 WAM 9-84. Locality: Goode Beach, Frenchman Bay, Albany, WA, 35°05'S, 117°56'E. From coralline and encrusting algae on rocks with sand and detritus, littoral. 21.xi.1975.
Remarks: Holotype and 15 paratypes in HZM, 3 paratypes in AM. Species recently synonymised with *Nicolea amnis* Hutchings and Murray, 1984 by Hutchings and Glasby (in press).

Family Sabellidae

- Fabriciola australiensis* Hartmann-Schröder, 1981: 60, Figs 138-145. Paratype, 1 WAM 4-81. Locality: Horrocks Beach, north of Geraldton, WA, 28°22'S, 114°25'E. From encrusting algae, seaweed and sand on fossil reef. 17.x.1975.
Remarks: Holotype and 5 paratypes in HZM.
- Oriopsis busseltonensis* Hartmann-Schröder, 1982: 93, Text figs 95-100. Paratype, 1 WAM 5-82. Locality: Yallingup, near Cape Naturaliste, WA, 33°38'S, 115°02'E. From algae and crusts on rock platform, littoral. 7.xi.1975.
Remarks: Holotype and 4 paratypes in HZM.

Class Oligochaeta
Order Haplotaxida
Family Haplotaxidae

- Pelodrilus darlingensis* Michaelsen, 1907: 134. Syntypes, 6 WAM 4405. Locality: Collie, WA, 33°22'S, 116°09'E. From marshy soil at edge of creek.

Family Enchytraeidae

- Fridericia cylindrica* Springett 1971: 17, Fig. 3. Holotype, WAM 7-69. Locality: Beedelup Falls (Brook) near Pemberton, WA, 34°25'S, 115°51'E. 27.viii.1969. Paratypes, 10 WAM 8-69. Locality: Ibid. 3.ix.1969.
- Fridericia giniata* Springett, 1971: 17, Figs 1,2. Holotype, WAM 5-69. Paratypes, 8 WAM 6-69. Locality: CSIRO Experimental Orchard, 27 mile peg on Albany Highway, WA. 3.ix.1969.
Remarks: Springett (1971) cited type locality as Bedforddale, WA, 32°12'S, 116°08'E.
- Fridericia holmesa* Springett, 1971: 19, Figs 4, 5. Holotype, WAM 9-69. Locality: Beedelup Falls (Brook) near Pemberton, WA, 34°25'S, 115°51'E. 23.vii.1969. Paratypes, 2 WAM 10-69. Locality: Ibid. 3.ix.1969.

Remarks: Springett (1971) incorrectly cited registration numbers as WAM 7-69 and 8-69 (= numbers for *F. cylindrica*).

Family Tubificidae

Clitellio abjornseni Michaelsen, 1907: 124. Syntype, 1 WAM 4407 (slide). Locality: Princess Royal Harbour, Albany, WA, 35°02'S, 117°53'E. 14-20.viii.1905.
Remarks: Mounted on slide by C. Erseus, 1979.

Family Megascolecidae

Austrohoplochaetella kendricki Jamieson, 1971a: Figs 5a, 6f, 7i. Holotype, WAM 37-70. Paratypes, 2 WAM 37-70. Locality: Cape Range, Wapet No. 4 deep well, WA, 22°15'S, 113°55'E. From bone earth with leaf mould, in cave 30 m deep. 15.v.1965.

Remarks: Label bears name *Austrotravoscolides kendricki*. Holotype clitellate. Jamieson (1971a) cited 1 paratype.

Eodrilus cornigravei Michaelsen, 1907: 144, Pl. 1 Figs 3-6. Syntype, 1 WAM 4403. Locality: Cannington, WA, 32°02'S, 115°55'E. From marshy soil. 28.vi.1905.

Remarks: Genus *Eodrilus* synonymised with *Diploctrema* by Jamieson (1970, 1971a).

Graliophilus georgei Jamieson, 1971a: 476, Figs 1a, 7a. Holotype, WAM 30-70. Paratype, 1 WAM 31-70. Locality: Old entrance of Mammoth Cave, south of Margaret River, WA, 34°03'S, 115°01'E. From mud in bank of freshwater stream. 31.i.1961.

Remarks: Labels bear name *Plutellus georgei*. Jamieson (1971a) cited several paratypes and registration number WAM 30-70 for holotype and paratypes.

Graliophilus secundus Jamieson, 1971a: 478, Figs 1b, 6a, 7b. Holotype, WAM 33-70. Locality: Culvert on road to Thompsons Bridge (probably Warren River), WA, 34°30'S, 116°02'E. 24.xi.1938.

Remarks: Label bears name *Plutellus secundus*. Unique type.

Megascolex albanensis Michaelsen, 1907: 221, Text fig. 32. Syntype, 1 WAM 4391. Locality: Albany, WA, 35°02'S, 117°53'E. From ash mulch of grasstrees. 13-22.viii.1905.

Megascolex bistichus Michaelsen, 1907: 216, Text fig. 28. Syntype, 1 WAM 4436. Locality: Donnybrook, WA, 33°34'S, 115°49'E. From under stones in rather dry soil in forest. 28-29.vii.1905.

- Megascolex colliensis*** Michaelsen, 1907: 219, Pl. 2 Fig. 53, Text fig. 31. Syntype, 1 WAM 4435. Locality: Collie, WA, 33°22'S, 116°09'E. On roots of grasses in damp soil. 26.viii.1905.
- Megascolex galei*** Michaelsen, 1907: 223, Pl. 2 Fig. 55, Text fig. 33. Syntype, 1 WAM 4392. Locality: Collie, near Collie River, WA, 33°22'S, 116°09'E. Under fallen branches in dry soil in forest. 26.viii.1905.
- Megascolex monostichus*** Michaelsen, 1907: 217, Text fig. 29. Syntype, 1 WAM 4221. Locality: Harvey, WA, 33°05'S, 115°54'E. From damp, humus-rich soil under fallen branches and amongst grass roots, near creek. 27.vii.1905.
- Megascolex whistleri*** Michaelsen, 1907: 212, Pl. 2 Fig. 50, Text fig. 26. Syntype, 1 WAM 4437. Locality: Boyanup, WA, 33°29'S, 115°44'E.
- Notoscolex hortensis*** Michaelsen, 1907: 199, Pl. 2 Figs 41, 42, Text fig. 19. Syntypes, 11 WAM 4401. Locality: Lion Mill (=? Lionel Mill, 21°41'S, 120°06'E), WA. From under fallen branches and bark in forest. 27.viii.1905.
- Notoscolex modestus*** Michaelsen, 1907: 203, Pl. 2 Figs 46, 47, Text fig. 21. Syntype, 1 WAM 4400. Locality: York, WA, 31°53'S, 116°46'E. 11.viii.1905.
- Notoscolex suctorius*** Michaelsen, 1907: 207, Pl. 2 Fig 56, Text fig. 23. Syntype, 1 WAM 4399. Locality: Bridgetown, WA, 33°58'S, 116°08'E. From forest. 30.vii.1905.
- Plutellus blackwoodianus*** Michaelsen, 1907: 179, Pl. 1 Figs 21, 22, Text fig. 8. Syntype, 1 WAM 4427. Locality: Bridgetown, WA, 33°58'S, 116°08'E. From under stones in forest. 30-31.vii.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).
- Plutellus levis*** Michaelsen, 1907: 173, Pl. 1 Figs 15, 16, Text fig. 5. Syntype, 1 WAM 4430. Locality: Cannington, WA, 32°02'S, 115°55'E. Under stones in marshy soil near pond. 28.vi.1905.
Remarks: Collection date cited by Michaelsen (1907) as 28.v.1905. Transferred to genus *Graliophilus* by Jamieson (1971a).
- Plutellus mendilai*** Michaelsen, 1907: 177, Pl. 1 Figs 19, 20, Text fig. 7. Syntype, 1 WAM 4428. Locality: Bed of Greenough River, Eradu, WA, 28°42'S, 115°02'E. From under stones, dry river bed. 13.vii.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).
- Plutellus murrayensis*** Michaelsen, 1907: 175, Pl. 1 Figs 17, 18, Text fig. 6. Syntype, 1 WAM 4426. Locality: Jarrahdale, WA, 32°20'S, 116°04'E. 19-20.ix.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).

- Plutellus strelitzi*** Michaelsen, 1907: 168, Pl. 1 Figs 11, 12, Text fig. 3. Syntype, 1 WAM 4429. Locality: Lion Mill (=? Lionel Mill, 21°41'S, 120°06'E), WA. From under rocks in dry sand-gravel road. 9.viii.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).
- Plutellus termitophilus*** Michaelsen, 1907: 164, Pl. 1 Figs 9, 10, Text fig. 1. Syntype, 1 WAM 4431. Locality: Lunenberg (=? Lunenburgh River, 33°15'S, 115°56'E), WA. From firm dry earth at base of termite nest. 22.ix.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).
- Plutellus woodwardi*** Michaelsen, 1907: 171, Pl. 1 Figs 13, 14, Text fig. 4. Syntype, 1 WAM 4425. Locality: Collie, WA, 33°22'S, 116°09'E. From marshy soil under branches and amongst grass roots. 26.viii.1905.
Remarks: Transferred to genus *Graliophilus* by Jamieson (1971a).
- Pseudonotoscolex pallinupensis*** Jamieson, 1971a: 497, Figs 5b, 6g, 7j. Holotype, WAM 35-70. Paratype, 1 WAM 36-70. Locality: Pallinup River, WA, 34°29'S, 118°54'E. v.1914.
Remarks: Jamieson (1971a) cited holotype and paratype as WAM 3570. Specimens were part of WAM 8960. Monotypic genus.
- Woodwardia affinus*** Michaelsen, 1907: 191, Pl. 2 Figs 31-33, Text fig. 15. Syntypes, 2 WAM 4432. Locality: Jarrahdale, WA, 32°20'S, 116°04'E. From under stones. 19-20.ix.1905.
Remarks: *Woodwardia* a junior homonyms and replaced by *Woodwardiella* Stephenson, 1925 (see also Stephenson, 1930 and Jamieson, 1971b).
- Woodwardia callichaeta*** Michaelsen, 1907: 189, Pl. 2 Figs 29, 30. Syntype, 1 WAM 4433. Locality: Jarrahdale, WA, 32°20'S, 116°04'E. From under stones. 19-20.ix.1905.
Remarks: See *Woodwardia affinus*.
- Woodwardiella acanthodriloides*** Jamieson, 1971a: 488, Figs 2a, 4b, 6e, 7g. Holotype, WAM 34-70. Paratype, 1 WAM 34-70. Locality: Frankland River, WA, 34°24'S, 117°01'E. 23.xi.1939.
Remarks: Holotype pinned.

Class Hirudinea
Order Gnathobdellida
Family Richardsonianidae

- Habeobdella stagni*** Richardson, 1971: 49, Fig. 1a-g. Holotype, WAM 49-69. Paratype, 1 WAM 49-69. Locality: South end of Herdsman Lake, Perth, WA, 31°44'S, 115°47'E. From mud. 5.ii.1965.

Remarks: Jaws of holotype on slide. Length of holotype 43.0 mm. Collection date cited by Richardson (1971) as 5 Nov 1965.

Uncertain Type Status

Phylum Annelida
Class Polychaeta
Family Nereididae

Quadricirra bansei Hartmann-Schröder, 1979: 121, Text figs 227-237. Paratype(s), 3 WAM 20-79. Locality: Gantheaume Point, Broome, WA, 17°58'S, 122°14'E. From algae and sand on rocks, lower littoral. 24.ix.1975.

Remarks: Specimens could not be found in WAM collection. Paratypes not cited by Hartmann-Schröder (1979) as lodged in WAM. Holotype and 3 paratypes in HZM. Transferred to genus *Micronereis* by Paxton (1983).

Class Oligochaeta
Order Haplotaxida
Family Megascolecidae

Kerria nichollsi Jackson, 1931: 121, Pl. 16 Figs 5, 8, 9, 11. Syntypes ?, many WAM 8-61, 3 WAM 9-61, WAM 26-61 (12 slides). Locality: South Perth, near Swan River, WA, 31°59'S, 115°52'E. From vegetable garden, swampy ground. 1926.

Remarks: WAM 8-61 and 9-61 labelled as probable type material. Slides WAM 26-61 lack type designation but registered as probable type material.

Megascolex affinis Nicholls and Jackson, 1926: 145, Pl. 18 Figs 3-5. Holotype ?, WAM 88-86 (slide). Locality: South-west Australia.

Remarks: 1 slide of spermatheca and spermiducal gland. Slide lacks type designation but since only one type specimen was described by Nicholls and Jackson (1926) it represents probable holotype material.

Megascolex albidus Jackson, 1931: 118, Pl. 15 Fig. 2, Text fig. 12. Syntypes ?, 2 WAM 21-61. Locality: Condinup, WA, 33°45'S, 122°32'E. 8.ix.1925.

Remarks: Labelled as probable type material.

Megascolex longicystis Nicholls and Jackson, 1926: 142, Pl. 18 Figs 1, 2. Syn-type(s) ?, WAM 31-61 (2 slides). Locality: Armadale, WA, 32°10'S, 116°00'E.

Remarks: 2 slides, possibly of same specimen, lacking type designation but registered as probable type material.

Megascolex swarbricki Nicholls and Jackson, 1926: 143, Pl. 18 Figs 6-10. Syntype(s)?, WAM 30-61 (7 slides). Locality: Near Nornalup, WA, 35°00'S, 116°49'E. From valleys of Deep and Frankland Rivers.
Remarks: 7 slides, specimen number indeterminate, lacking type designation but registered as probable type material.

Megascolex syndetoporus Jackson, 1931: 117, Pl. 15 Fig. 1, Text figs 10, 11. Syntype(s)?, WAM 27-61 (7 slides). Locality: Pemberton, WA, 34°26'S, 116°02'E.
Remarks: 7 slides, specimen number indeterminate, lacking type designation but registered as probable type material.

Notoscolex leios Jackson, 1931: 108, Pl. 15 Figs 3, 5. Holotype ?, WAM 20-61, WAM 23-61 (slide). Locality: Murchison, WA, 27°38'S, 114°55'E.
Remarks: WAM 20-61 labelled as probable type material. Slide WAM 23-61 without type designation but registered as probable type material. Jackson (1931) described a single type specimen, therefore both WAM 20-61 and 23-61 probably holotypic.

Plutellus candidus Jackson, 1931: 90, Pl. 15 Figs 9, 12, 13, Text fig. 6. Holotype ?, WAM 15-61, WAM 24-61 (slide). Locality: Roleystone, WA, 32°07'S, 116°04'E. 1927.
Remarks: WAM 15-61 labelled as probable type material. Slide WAM 24-61 without type designation but registered as probable type material. Jackson (1931) described a single type specimen, therefore both WAM 15-61 and 24-61 probably holotypic. Transferred to genus *Graliophilus* by Jamieson (1971a).

Plutellus dalgarangae Jackson, 1931: 90. Syntype ?, 1 WAM 16-61. Locality: Dalgaranga Station, north-east of Yalgoo, WA, 27°45'S, 117°01'E. From under rocks. 1925.
Remarks: Labelled as probable type material. Transferred to genus *Graliophilus* by Jamieson (1971a).

Plutellus varicystis Jackson, 1931: 92, Pl. 15 Fig. 4, Text figs 7, 8. Syntypes ?, 5 WAM 17-61, WAM 22-61 (slide). Locality: Porongorups, WA, 34°41'S, 117°54'E. 1926. Syntypes ?, many WAM 18-61. Locality: Faulknors (property), Porongorups. 29.v.1927.
Remarks: WAM 17-61 and 18-61 labelled as probable type material. One specimen of WAM 18-61 separately labelled as lectotype, by persons unknown. Slide WAM 22-61 without type designation but registered as probable type material. Transferred to genus *Graliophilus* by Jamieson (1971a).

Pontodrilus albanensis cygni Jackson, 1931: 94, Pl. 14 Figs 2, 3, 4, 9. Syntypes ?, 31 WAM 12-61, 2 WAM 13-61. Locality: Swan River bank, Claremont, Perth, WA, 31°59'S, 115°47'E. v.1927. Syntypes ?, many WAM 14-61. Locality:

Nornalup, WA, 35°00'S, 116°49'E. Syntypes ?, WAM 28-61 (6 slides). Locality: Claremont and Nornalup, WA.

Remarks: WAM 12-61, 13-61 and 14-61 labelled as probable type material. 6 slides WAM 28-61 without type designation but registered as probable type material. *Pontodrilus albanyensis* regarded by Jamieson (1971a) as synonym of *P. litoralis* (Grube).

Woodwardiella magna Jackson, 1931: 103, Pl. 15 Figs 7, 10, Text fig. 9. Syntype ?, 1 WAM 19-61, WAM 25-61 (slide). Locality: Lesmurdie, WA, 32°00'S, 116°00'E. 1927.

Remarks: WAM 19-61 and 25-61 labelled as *Woodwardia magna*. WAM 19-61 labelled as probable type material. Slide WAM 25-61 without type designation but registered as probable type material.

Family Lumbricidae

Eiseniella intermedius Jackson, 1931: 123, Pl. 16 Figs 4, 6, 7, Text fig. 16. Syntypes ?, many WAM 10-61, 3 WAM 11-61, WAM 29-61 (14 slides). Locality: Lake Monger, Perth, WA, 31°55'S, 115°49'E. From freshwater along margin of lake. 1927.

Remarks: WAM 10-61 and 11-61 labelled as probable type material. Slides WAM 29-61 without type designation but registered as probable type material.

Invalid types

Phylum Nematoda
Class Secernentea
Order Oxyurida
Family Cosmocercidae

Maxvachonia brygooi Mawson, 1972: 102, Figs 7-10. Allotype and paratypes in Jones, 1986: 690, Figs 1-5. Allotype, ♂ WAM 225-85. Paratypes, 2 ♂♂ WAM 226-85. Locality: 5 km west of Mt Percy, WA, 17°37'S, 124°55'E. From rectum of *Pogona minor mitchelli* (WAM R70655). 19.v.1980. Paratype, ♂ WAM 228-85. Locality: Martins Well, WA, 16°34'S, 122°51'E. From rectum of *Pogona minor mitchelli* (WAM R58532). 28.v.1977.

Remarks: Mawson (1972) established the species *M. brygooi* without indication of a holotype nor adequate species description. No indication is given of which specimen(s) is (are) illustrated though several females are cited. Under Articles 72 and 73 of the International Code of Zoological Nomenclature the specimens must be regarded as syntypes. These are lodged in the South Australian Museum.

Jones (1986) described males of the species, designating an 'allotype' and 'paratypes'. (The allotype WAM 225-85 bears label of 'holotype'.) This move was invalid under the Code since paratypes (including allotype) can only be designated in the original species description. Under Article 74 of the Code, a lectotype could be designated subsequently from the syntypic series but not from additional material. The allotype and paratypes designated by Jones (1986) therefore have no type status.

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