

## THE PRIMARY TYPES OF ARACHNIDA, CHILOPODA, DIPLOPODA, INSECTA, ONYCHOPHORA AND PYCNOGONIDA IN THE WESTERN AUSTRALIAN MUSEUM

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### ABSTRACT

The primary type specimens of Arthropoda (excluding Crustacea) lodged in the Western Australian Museum are listed. The numbers of species or subspecies in the various groups are Arachnida (Scorpionida 10, Phalangida 2, Araneida 23, Acarina 6), Chilopoda 3, Diplopoda 10, Insecta (Thysanura 2, Odonata 10, Blattodea 41, Isoptera 4, Dermaptera 2, Embioptera 1, Hemiptera 7, Neuroptera 8, Coleoptera 48, Siphonaptera 1, Diptera 35, Trichoptera 3, Lepidoptera 8, Hymenoptera 53), Onychophora 1, Pycnogonida 7.

### INTRODUCTION

This paper lists the primary type specimens of various groups of the Phylum Arthropoda, excluding the Crustacea, lodged in the Western Australian Museum. The list has been essentially compiled from the collection and includes all the types whose published descriptions have come to hand by the date of submission of the present paper. Primary types are here defined as the name-bearing specimens, i.e. holotypes, syntypes and lectotypes; there are no neotypes, and paratypes are excluded. Data from the type lists which I compiled for the published Annual Reports of the Western Australian Museum (1961-62 to 1968-69) have been incorporated.

The classes are listed alphabetically. The arachnid orders are in the sequence given in 'Classification of Insects', Brues, Melander and Carpenter, 1954. The insect orders are in the sequence given in 'The Insects of Australia', CSIRO, 1970. The order names of the Chilopoda and Diplopoda are those given in "Treatise on Invertebrate Paleontology" Part R, Arthropoda, 4(2), 1969, and are in the same sequence. The families, genera and species are arranged alphabetically within each order.

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For each species or subspecies, the information includes, wherever recorded, the sex of the type, the collector's name, date of collection or registration, and the locality of collection, for which I also include the latitude and longitude. Unfortunately, many of the old dates in the registers of the Western Australian Museum are not the dates of collection of the specimens but of their registration. Therefore in this list, wherever the date of collection is thought to be correct it is given preceded by 'col.', but wherever it is unknown the date of registration is given instead and is preceded by 'reg.'

The generic names are those with which the specific names were originally combined.

## LIST OF TYPES

### CLASS ARACHNIDA

#### ORDER SCORPIONIDA

##### Family Buthidae

*Lychas jonesae* Glauert, 1925, *J.R. Soc. West. Aust.* **11**: 110-111. Holotype, ♂, in alcohol, WAM 24-446. F. Jones; reg. 19.v.1924; Hampton Hill Station (Bulong), W.A.; 30°45'S, 121°46'E.

*Lychas lappa* Glauert, 1954, *N. Qd Nat.* **28**: 4-5. Holotype, ♀, in alcohol, WAM 64-62. W. Hosmer; reg. 24.i.1954; Lappa Junction [Siding], Qld; 17°22'S, 144°53'E.

##### Family Scorpionidae

*Urodacus centralis* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 216-219. Holotype, ♂, in alcohol, WAM 73-775. W.H. Butler; col. 20.v.1973; Palm Valley, N.T.; 24°06'S, 132°43'E.

*Urodacus elongatus* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 191-194. Holotype, ♂, in alcohol, WAM 68-490. J.C. Le Souef; col. x. 1967; Mt Remarkable, S.A.; 32°48'S, 138°10'E.

*Urodacus giulianii* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 267-268. Holotype, ♀, in alcohol, WAM 69-2013. D.D. Giuliani; col. 7.vii.1969; Mt Davies Camp, 8 km NW of, S.A.; 26°09'S, 129°06'E.

*Urodacus koolanensis* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 226-228. Holotype, ♂, in alcohol, WAM 68-487. O. Milton; col. 16.ix.1966; Koolan I., W.A.; 16°08'S, 123°45'E.

*Urodacus lowei* Koch, 1977, *Rec. West Aust. Mus.* **5**: 280-283. Holotype, ♂, in alcohol, WAM 69-620. W.R. Lowe; col. 2.ix.1967; Lawley River and Mitchell River area, within 16 km of, W.A.; 14°58'S, 126°02'E.

*Urodacus megamastigus* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 229-231. Holotype, ♂, in alcohol, WAM 66-368. A. Snell; col. 8.iv.1963; Mundiwindi, W.A.; 23°50'S, 120°10'E.

*Urodacus similis* Koch, 1977, *Rec. West. Aust. Mus.* **5**: 284-286. Holotype, ♂, in alcohol, WAM 69-467. T. Moriarty; col. iii-iv.-1963; Kathleen Valley, W.A.; 27°23'S, 120°38'E.

*Urodacus varians* Glauert, 1963, *West. Aust. Nat.* **8**: 133-134. Holotype, ♂, in alcohol, WAM 62-1. O.H. Lipfert; col. iv.1930-x.1931; Canning Stock Route, from Wiluna to Billiluna, W.A.; 26°35'S, 120°14'E to 19°33'S, 127°40'E.

## ORDER PHALANGIDA

### Family Phalangodidae

*Bindoona glauerti* Roewer, 1929, *J.R. Soc. West. Aust.* **15**: 97-98. Holotype, in alcohol, WAM 27-672. L. Glauert; col. 14.v.1927; South Bindoon, W.A.; 29°59'S, 115°12'E.

### Family Triaenonychidae

*Dingupa glauerti* Forster, 1952, *J.R. Soc. West. Aust.* **36**: 23-27. Holotype, ♂, in alcohol, WAM 36-2136. L. Glauert; col. iii.1936; Dingup, W.A.; 34°14'S, 116°12'E.

## ORDER ARANEIDA

### Family Araneidae

*Aranea recherchensis* Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 41-42. Holotype, ♀, in alcohol, WAM 55-4984. V.N. Serventy; col. 7.xi.1950; Figure-of-Eight I. (Recherche Archipelago), W.A.; 34°02'S, 121°37'E.

### Family Ctenidae

*Horiocstenoides bidentatus* Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 42-44. Holotype, ♀, in alcohol, WAM 55-4982. V.N. Serventy; col. 7.xi.1950; Figure-of-Eight I. (Recherche Archipelago), W.A.; 34°02'S, 121°37'E.

### Family Ctenizidae

*Aganippe cupulifex* Main, 1957, *Aust. J. Zool.* **5**: 436-437. Holotype, ♂, in alcohol, WAM 64-61. B.Y. Main; col. 3.iv.1953; Chittering Lake, W.A.; 31°24'S, 116°05'E.

*Arbanitis festivus* Rainbow and Pulleine, 1918, *Rec. Aust. Mus.* **12**: 111-112. Syntype, ♀, in alcohol, WAM 64-67. col. 9.xii.1917; Nannup, W.A.; 33°59'S, 115°45'E.

*Eucyrtops eremaea* Main, 1957, *Aust. J. Zool.* **5**: 421-423. Holotype, ♂, in alcohol, WAM 64-60. A.R. Main; col. 21.v.1956; Cardinia Creek, W.A.; 28°49'S, 121°35'E.

*Eucyrtops riparia* Main, 1957, *Aust. J. Zool.* **5**: 419-421. Holotype, ♀, in alcohol, WAM 64-59. B.Y. Main; col. 26.v.1954; Mt Misery, 1 mile [1.6 km]S of, W.A.; 30°42'S, 115°37'E.

*Idiosoma hirsutum* Main, 1952, *West. Aust. Nat.* **3**: 132-133. Holotype, ♀, in alcohol, WAM 29-1060. L.W. Gibbs; reg. 10.viii.1929; Victoria Park, W.A.; 31°57'S, 115°51'E.

*Idiosoma nigrum* Main, 1952, *West. Aust. Nat.* **3**: 133. Holotype, ♀, in alcohol, WAM 64-58. B.Y. Main; col. 19.vi.1952; Wongan Hills, W.A.; 30°54'S, 116°43'E.

### Family Clubionidae

*Chiracanthium mondrainensis* Main, 1954, in the Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 46. Holotype, ♀, in alcohol, WAM 55-4983. V.N. Serventy; col. 21.xi.1950; Mondrain I. (Recherche Archipelago), W.A.; 34°08'S, 122°15'E.

### Family Dipluridae

*Dekana wonganensis* Main, 1977, in The Natural History of Wongan Hills. *Handbk West. Aust. Nat. Club* no. 11: 102-107. Holotype, ♀, in alcohol, WAM 78-596. B.Y. Main; col. 24.xi.1974; Wongan Hills [s. end of], W.A.; 30°54'S, 116°43'E.

*Teyl luculentus* Main, 1975, *West. Aust. Nat.* **13**: 73-78. Holotype, ♀, in alcohol, WAM 75-944. B.Y. Main; col. 29.viii.1956; Bruce Rock, 14.5 km N of, W.A.; 31°46'S, 118°09'E.

*Troglodiplura lowyri* Main, 1969, *J.R. Soc. West. Aust.* **52**: 9-11. Holotype, in alcohol, WAM 68-342. D.C. and J.W.J. Lowry; col. 29.vii.1966; Roaches Rest Cave, 27 miles [43 km] NE of Madura, W.A.; 31°54'S, 127°01'E.

### **Family Dysderidae**

*Ariadna decatetraacantha* Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 40. Holotype, ♀, in alcohol, WAM 55-4981. V.N. Serventy; col. 19-20.xi.1950; Twin Peaks I. (probably North I.) (Recherche Archipelago), W.A.; 35°59'S, 122°50'E.

### **Family Gnaphosidae**

*Encoptarthria serventyi* Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 44-45. Holotype, ♀, in alcohol, WAM 55-4985. V.N. Serventy; col. 10.xi.1950; Sandy Hook I. (Recherche Archipelago), W.A.; 34°03'S, 122°00'E.

### **Family Linyphiidae**

*Laetesia leo* van Helsdingen, 1972, *Zoöl. Meded. Leiden* 47: 383-385. Holotype, ♀, in alcohol, WAM 72-734. J.W.J. Lowry; col. 3.iv.1970; Koonalda Cave, Nullarbor Plain, S.A.; 31°24'S, 129°50'E.

### **Family Lycosidae**

*Lycosa alteripa* McKay, 1976, *Mem. Qd Mus.* 17: 417-419. Holotype, ♂, in alcohol, WAM 71-40. R.J. McKay and R. Prince; col. 11.vii.1970; Fitzgerald River, near mouth of, W.A.; 34°05'S, 119°35'E.

*Lycosa corallina* McKay, 1974, *Mem. Qd Mus.* 17: 21-26. Holotype, ♀, in alcohol, WAM 71-1645. R.J. McKay and L. Baird; col. 10.vii.1971; Wooded I., Houtman Abrolhos, W.A.; 28°46'S, 113°48'E.

*Lycosa duracki* McKay, 1975, *Mem. Qd Mus.* 17: 316-318. Holotype, ♀, in alcohol, WAM 74-494. R.J. McKay and W.H. Butler; col. 23.x.1971; Old Argyle Downs Station (Ord River) [now submerged beneath Lake Argyle], W.A.; 16°17'S, 128°48'E.

*Lycosa forresti* McKay, 1973, *Mem. Qd Mus.* 16: 385-389. Holotype, ♀, in alcohol, WAM 70-44. W.H. Butler; col. 17.viii.1953; Moorine Rock, 8 miles [13 km] W of, W.A.; 31°18'S, 119°00'E.

*Lycosa salifodina* McKay, 1976, *Mem. Qd Mus.* 17: 421-423. Holotype, ♀, in alcohol, WAM 69-639. A.M. Douglas and L.E. Koch; col. 24.i.1968; Lake Lefroy, Widgiemooltha, W.A.; 31°30'S, 121°34'E.

*Lycosa snelli* McKay, 1975, *Mem. Qd Mus.* 17: 313-316. Holotype, ♀, in alcohol, WAM 69-797. A. Snell; col. i.1952; Towera Station, W.A.; 23°11'S, 115°07'E.

*Lycosa storri* McKay, 1973, *Mem. Qd Mus.* 16: 389-394. Holotype, ♀, in alcohol, WAM 70-240. W.H. Butler; col. 6.xi.1970; Yellowdine, 38 miles [61 km] S of, W.A.; 31°50'S, 119°39'E.

### **Family Miturgidae**

*Janusia muiri* Gray, 1972, *J. Aust. ent. Soc.* 12: 207-210. Holotype, ♀, in alcohol, WAM 73-77. J.W.J. Lowry; col. 20.ix.1966. Weebubbie Cave N2, near Madura, W.A.; 31°39'S, 128°46'E.

### **ORDER ACARINA**

#### **Family Ixodidae**

*Amblyomma calabyi* Roberts, 1963, *Parasitology* 53: 171-181. Holotype, ♂, in alcohol, WAM 64-70. J.H. Calaby; col. 18.ix.1961; Learmonth, 7 miles [11 km] SSW of, W.A.; 22°20'S, 114°00'E.

*Haemaphysalis lagostropi* Roberts, 1963, *Aust. J. Zool.* 11: 53-57. Holotype, ♂, in alcohol, WAM 64-69. W.D.L. Ride; col. 26.vii.1959; Bernier I., W.A.; 24°52'S, 113°08'E.

*Ixodes hydromyidis* Swan, 1931, *Parasitology* 23: 485-487. Syntype, ♀, in alcohol, and two microscope slides of parts, WAM 64-68 and 64-68a and 64-68b. D.C. Swan; col. 10.vi.1930; Mundaring Weir, W.A.; 31°57'S, 116°10'E.

#### **Family Trombidiidae**

*Allothrombium antipodianum kondininum* Hirst, 1928, *Proc. zool. Soc. Lond.* 1928: 1030. Holotype, in alcohol, and two microscope slides, WAM 24-512 and 24-512a and 24-512b. A.D. Robens; reg. 27.v.1924; Kondinin, W.A.; 32°30'S, 118°16'E.

*Chyzeria occidentalis* Hirst, 1929, *Proc. zool. Soc. Lond.* 1929: 167-168. Holotype, three microscope slides. WAM 67-72 and 64-72a to 64-72c. reg. 4.vi.1964; Rottnest I. (Ursula's Lake), W.A.; 32°00'S, 115°30'E.

*Microtrombidium (Enemothrombium) koordanum* Hirst, 1928, *Proc. zool. Soc. Lond.* 1928: 1023. Holotype, in alcohol, and two microscope slides, WAM 25-431 and 25-431a and 25-431b. F. Bradshaw; reg. 25.v.1925; Koorda, W.A.; 30°50'S, 117°29'E.

### **CLASS CHILOPODA**

### **ORDER LITHOBIIDA**

#### **Family Anopsobiidae**

*Dichelobius flavens* Attems, 1911, in vol. 3, pp. 154-157, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7177. Michaelsen and Hartmeyer Expd.; col. 20.vii.1905; Station 99, Lion Mill [= Mt Helena], W.A.; 31°53'S, 116°12'E.

### **Family Henicopidae**

*Henicops oligotarsus* Attems, 1911, in vol. 3, pp. 150-151, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 3, in alcohol, WAM 7172a to 7172c. Michaelsen and Hartmeyer Expd.; col. 7.x.1905; Station 139, Brunswick, W.A.; 33°15'S, 115°50'E.

### **ORDER GEOPHILIDA**

#### **Family Geophilidae**

*Polygonarea imparata* Attems, 1911, in vol. 3, pp. 161-163, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7140. Michaelsen and Hartmeyer Expd.; col. 28.v.1905; Station 112, Karrakatta, W.A.; 31°58'S, 115°48'E.

### **CLASS DIPLOPODA**

### **ORDER POLYZONIIDA**

#### **Family Polyzoniidae**

*Siphonotus flavomarginatus* Attems, 1911, in vol. 3, pp. 201-204, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7156. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02'S, 117°38'E.

### **ORDER SPIROSTREPTIDA**

#### **Family Cambalidae**

*Atelomastix albanyensis* Attems, 1911, in vol. 3, pp. 194-195, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, in alcohol, WAM 7145. Michaelsen and Hartmeyer Expd.; col. 13.viii.1905; Station 165, Albany, W.A.; 35°01'S, 117°53'E.

*Dinocambala ingens* Attems, 1911, in vol. 3, pp. 190-192, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7173. Michaelsen and Hartmeyer Expd.; col. 31.v.1905; Station 152, Gooseberry Hill, W.A.; 31°57'S, 116°03'E.

*Podykipus collinus* Attems, 1911, in vol. 3, pp. 184-186, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7146. Michaelsen and Hartmeyer Expd.; col. 9-16.vii.1905; Station 109, Subiaco, W.A.; 31°57'S, 115°49'E.

*Podykipus leptoiuloides* Attems, 1911, in vol. 3, pp. 186-189, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol,

WAM 7153. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 33°22'S, 116°09'E.

*Samichus decoratus* Attems, 1911, in vol. 3, pp. 198-199, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7150. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02'S, 117°38'E.

## ORDER POLYDESMIDA

### Family Paradoxosomatidae

*Antichiropus monacanthus* Attems, 1911, in vol. 3, pp. 175-176, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7152. Michaelsen and Hartmeyer Expd.; col. 7-12.vi.1905; Station 68, Brown Station, Dirk Hartogs I., W.A.; 26°00'S, 113°10'E.

*Antichiropus variabilis ingens* Attems, 1911, in vol. 3, pp. 171-172, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2 ♂, in alcohol, WAM 7128a and 7128b. Michaelsen and Hartmeyer Expd.; col. 11.viii.1905; Station 155, York, W.A.; 31°53'S, 116°46'E.

*Antichiropus whistleri* Attems, 1911, in vol. 3, p. 174, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, in alcohol, WAM 7151. Michaelsen and Hartmeyer Expd.; col. 1.vi.1905; Station 114, Buckland Hill (near Fremantle), W.A.; 32°03'S, 115°44'E.

*Orthomorpha triaina* Attems, 1911, in vol. 3, pp. 178-179, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7176. Michaelsen and Hartmeyer Expd.; col. 13.viii.1905; Station 165, Albany, W.A.; 35°01'S, 117°53'E.

## CLASS INSECTA

## ORDER THYSANURA

### Family Lepismatidae

*Acrotelsa splendens* Nicholls and Richardson, 1926, *J. R. Soc. West. Aust.* 12: 134-137. Syntypes, ♂ and ♀, five microscope slides of these and appendages, WAM 63-356 and 63-356a to 63-356e. reg. 19.ix.1963; Mt Nairn, (and Milly Milly District), W.A.; 25°55'S, 116°38'E.

*Acrotelsa westralis* Nicholls and Richardson, 1926, *J.R. Soc. West. Aust.* 12: 137-139. Holotype ♂, seven microscope slides of it and appendages, WAM 63-357 and 63-357a to 63-357g. reg. 19.ix.1963; Beaconsfield, W.A.; 32°04'S, 115°46'E.

## ORDER ODONATA

### Family Coenagrionidae

*Agriocnemis kunjina* Watson, 1969, *Aust. J. Zool.* 17: 76-78. Holotype, ♂, pinned, WAM 69-760. J.A.L. Watson; col. 1.viii.1958; Old Gardens, Tambrey (Coolawanyah) Station, W.A.; 21°38'S, 117°36'E.

*Austroagrion pindrina* Watson, 1969, *Aust. J. Zool.* 17: 68-71. Holotype, ♂, pinned, WAM 69-759. J.A.L. Watson; col. 1.viii. 1958; Nuntara Pools, Tanberry Creek, Tambrey (Coolawanyah) Station, W.A.; 21°38'S, 117°36'E.

### Family Corduliidae

*Hemicordulia koomina* Watson, 1969, *Aust. J. Zool.* 17: 97-99. Holotype, ♂, pinned, WAM 69-764. J.A.L. Watson; col. 26.vii.1958; Deep Reach [Pool] (Fortescue River, Millstream Station), W.A.; 21°37'S, 117°06'E.

### Family Gomphidae

*Antipodogomphus neophytus* Fraser, 1958, *Proc. R. zool. Soc. N.S.W.* 1956-57: 71-73. Holotype, ♂, pinned, WAM 58-2. G.F. Bornemissza; col. ii.1954; Kimberley Research Station, W.A.; 15°39'S, 128°42'E.

*Antipodogomphus neophytus hodgkini* Watson, 1969, *Aust. J. Zool.* 17: 94-96. Holotype, ♂, pinned, WAM 69-766. J.A.L. Watson; col. 31.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39'S, 117°03'E.

*Indictinogomphus australis dobsoni* Watson, 1969, *Aust. J. Zool.* 17: 88-89. Holotype, ♂, pinned, WAM 69-763. J.A.L. Watson; col. 31.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39'S, 117°03'E.

### Family Libellulidae

*Nannophlebia injibandi* Watson, 1969, *Aust. J. Zool.* 17: 100-103. Holotype, ♂, pinned, WAM 69-765. J.A.L. Watson; col. 30.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39'S, 117°03'E.

### Family Petaluridae

*Petalura hesperia* Watson, 1958, *Proc. R. ent. Soc. Lond. (B)* 27: 116-118. Holotype, ♂, pinned, WAM 58-3. J.A.L. Watson; col. 1.xii.1957; Karragullen, 1 ¾ miles (3 km) SW of, W.A.; 32°05'S, 116°05'E.

### Family Protoneuriidae

*Eurysticata coolawanyah* Watson, 1969, *Aust. J. Zool.* 17: 83-87. Holotype, ♂, pinned, WAM 69-762. J.A.L. Watson; col. 6.ii.1958; Deep Reach [Pool] (Fortescue River, Millstream Station), W.A.; 21°37'S, 117°06'E.

*Notosticta solida pilbara* Watson, 1969, *Aust. J. Zool.* **17**: 80-82. Holotype, ♂, pinned, WAM 69-761. J.A.L. Watson; col. 26.i.-6.ii.1958, Millstream Spring (Millstream Station), W.A.; 21°39'S, 117°03'E.

## ORDER BLATTODEA

### Family Blaberidae

*Calolampra submarginalis* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 32. Holotype, ♂, pinned, WAM 46-274. P.J. Barwise; reg. 29.iv.1946; West Kimberley, W.A.; about 17°S, 124°E.

*Paratemnopteryx atra* Princis, 1963, *J.R. Soc. West. Aust.* **46**: 11-12. Holotype, ♂, pinned, WAM 63-355. A.M. Douglas; col. 10.x.1957; Marble Bar, W.A.; 21°07'S, 119°41'E.

*Shawella douglasi* Princis, 1963, *J.R. Soc. West. Aust.* **46**: 11. Holotype, ♂, pinned, WAM 63-354. A.M. Douglas; col. ix.1958; Jurien Bay, W.A.; 30°17'S, 115°00'E.

### Family Blattellidae

*Troglablatella nullarboensis* Mackerras, 1967, *J. Aust. ent. Soc.* **6**: 39-42. Holotype, ♂, pinned, WAM 68-88. D.C. and J.W.J. Lowry; col. 27.ix.1966; Abrakurrie Cave (about 24 miles [39 km] WNW of Eucla), W.A.; 31°21'S, 128°48'E.

### Family Blattidae

*Anamesia angusta* Mackerras, 1966, *Aust. J. Zool.* **14**: 350-351. Holotype, ♂, pinned, WAM 63-316. A.M. Douglas; col. xi.1960; Bamboo Creek, W.A.; 20°56'S, 120°13'E.

*Anamesia douglasi* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 11. Holotype, ♀, pinned, WAM 43-1736. A.M. Douglas; col. 1943; Clampton, W.A.; 29°57'S, 119°06'E.

*Anamesia serrata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 12. Holotype, ♀ [not ♂], pinned, WAM 24-968. H.W.B. Talbot; reg. xii.1924; Mt Wynne, W.A.; 18°06'S, 124°27'E.

*Anamesia uniformis* Mackerras, 1966, *Aust. J. Zool.* **14**: 349-350. Holotype, ♂, pinned, WAM 63-305. A.M. Douglas; col. 25.vii.1963; North West Cape, W.A.; 21°45'S, 114°10'E.

*Euzosteria callosa* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blatteriae, *Acta Univ. lund.* (2)50(13): 29. Holotype, ♀, pinned, WAM 43-1375. R. Randall; reg. 13.xii.1943; Jitarning, W.A.; 32°47'S, 118°00'E.

*Lamproblatta picea* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 8-9. Holotype, ♂, pinned, WAM 32-1542. O. Smith; reg. 10.viii.1932; Perenjori, W.A.; 29°26'S, 116°17'E.

*Lamproblatta sublobata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 8. Holotype, ♀, pinned, WAM 48-585. F. Lambert; col. iii.1948; Wittenoom Gorge, W.A.; 22°14'S, 118°20'E.

*Lamproblatta zonata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 9-10. Holotype, ♀, pinned, WAM 49-904. K.G. Buller; col. 15.viii.1949; Murchison, W.A.; 27°39'S, 114°14'E.

*Megazosteria shawi* Mackerras, 1966, *Aust. J. Zool.* 14: 313-314. Holotype, ♂, pinned, WAM 66-385. R.P. McMillan; col. 19.vii.1958; Millstream, W.A.; 21°35'S, 117°04'E.

*Melanozosteria lobipennis* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 13-14. Holotype, ♂, pinned, WAM 19-65. A. Caldwell; reg. 10.ii.1919; Badjebup, W.A.; 33°38'S, 117°54'E.

*Platyzosteria denticulata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 20. Holotype, ♀, pinned, WAM 52-172 [not 57-472]. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41'S, 120°11'E.

*Platyzosteria fulva* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 27. Holotype, ♀, pinned, WAM 52-184. col. 1925; Darlington, W.A.; 31°55'S, 116°04'E.

*Platyzosteria (Leptozosteria) latissima* Mackerras, 1967, *Aust. J. Zool.* 15: 1293-1295. Holotype, ♂, pinned, WAM 65-430. C. Snell; col. 18.iii.1965; Turee Creek, 2 miles [3 km] SE of, W.A.; 23°37'S, 118°39'E.

*Platyzosteria (Leptozosteria) subaquila* Mackerras, 1967, *Aust. J. Zool.* 15: 1290-1292. Holotype, ♂, pinned, WAM 64-175. A.M. Douglas; col. 9.ix.1964; Halls Creek, 48 miles [77 km] N of, W.A.; 18°16'S, 127°47'E.

*Platyzosteria marginalis* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 20-21. Holotype, ♀, pinned, WAM 27-182. H. Poole; reg. ii.1927; Mullewa, W.A.; 28°32'S, 115°30'E.

*Playzosteria (Melanozosteria) aculeata* Mackerras, 1968, *Aust. J. Zool.* 16: 305-306. Holotype, ♂, pinned, WAM 55-4019. A.M. Douglas; col. vi.1955; Rough Range, W.A.; 22°26'S, 114°04'E.

*Platyzosteria (Melanzosteria) barrominensis* Mackerras, 1968, *Aust. J. Zool.* 16: 327. Holotype, ♂, pinned, WAM 68-296. A.M. Douglas; col. xi.1963; Barromine, 150 miles [241 km] E of Marble Bar, W.A.; 21°11'S, 119°44'E.

*Platyzosteria (Melanozosteria) flavofusca* Mackerras, 1968, *Aust. J. Zool.* 16: 322-325. Holotype, ♂, pinned, WAM 68-295. A.M. Douglas; col. 25. vii.1963; North West Cape, W.A.; 21°45'S, 114°10'E.

*Platyzosteria (Melanozosteria) lentiginosa* Mackerras, 1968, *Aust. J. Zool.* 16: 325-326. Holotype, ♂, pinned, WAM 64-123. A.M. Douglas; col. 4.ix.1964; Halls Creek, W.A.; 18°16'S, 127°46'E.

*Platyzosteria (Melanozosteria) minima* Mackerras, 1968, *Aust. J. Zool.* 16: 317-318. Holotype, ♂, pinned, WAM 68-294. A.M. Douglas; col. 1959; Dorre I., W.A.; 25°07'S, 113°08'E.

*Platyzosteria (Melanozosteria) minor* Mackerras, 1968, *Aust. J. Zool.* 16: 316-317. Holotype, ♂, pinned, WAM 68-293. A.M. Douglas; col. 25.viii.1963; North West Cape, W.A.; 21°45'S, 114°10'E.

*Platyzosteria (Melanozosteria) obesa* Mackerras, 1968, *Aust. J. Zool.* 16: 302-304. Holotype, ♂, pinned, WAM 66-16. A.M. Douglas and L.N. [not M.] McKenna; col. 21-23.i.1966; Dedari, W.A.; 31°05'S, 120°42'E.

*Platyzosteria (Platyzosteria) albopilosa* Mackerras, 1967, *Aust. J. Zool.* 15: 1280-1282. Holotype, ♂, pinned, WAM 64-663 [= 64-664 in description]. A.M. Douglas; col. 8.x.1964; Cocklebiddy, 7 miles [11 km] SE of, W.A.; 32°04'S, 126°11'E.

*Platyzosteria polita* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 18. Holotype, ♂, pinned, WAM 52-157. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41'S, 120°11'E.

*Platyzosteria shelfordi* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 22. Holotype, ♂, pinned, WAM 4381. Michaelsen and Hartmeyer Exped.; col. 1905; Murchison District, W.A.; about 27°S, 115°E.

*Platyzosteria similis* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 21-22. Holotype, ♂, pinned, WAM 52-173. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41'S, 120°11'E.

*Platyzosteria tibialis* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 24. Holotype, ♀, pinned, WAM 34-1645. M. Dorotich; reg. 4.v.1934; Burngup, W.A.; 33°01'S, 118°41'E.

*Platyzosteria tricaudata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 23-24. Holotype, ♂, pinned, WAM 29-481. L. Glauert; col. iv-v.1929; Landor Station W.A.; 25°08'S, 116°54'E.

*Polyzosteria flavomaculosa* Mackerras, 1965, *Aust. J. Zool.* 13: 867-868. Holotype, ♂, pinned, WAM 4520. D. Lund; col. 11.ix.1911; Williams, W.A.; 33°01'S, 116°52'E.

*Polyzosteria fulgens* Mackerras, 1965, *Aust. J. Zool.* 13: 874-876. Holotype, ♂, pinned, WAM 24-1. W.A. Poole; col. 9.i.1924; Kalmia (Upper Swan) W.A.; 31°46'S, 116°01'E.

*Pseudolampra venusta* Mackerras, 1966, *Aust. J. Zool.* 14: 361-362. Holotype, ♂, pinned, WAM 64-536. A.M. Douglas; col. 8.x.1964; Cocklebiddy, 7 miles [11 km] SE of, W.A.; 34°04'S, 126°11'E.

*Pseudozosteria punctata* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 10. Holotype, ♀, pinned, WAM 24-302. R. Warren; reg. 4.iv.1924; Laverton, W.A.; 28°38'S, 122°24'E.

*Zonioploca fullerae* Mackerras, 1965, *Aust. J. Zool.* 13: 910-911. Holotype, ♂, pinned, WAM 65-723. R.P. McMillan; col. 24.i.1968; Southern Cross, W.A.; 31°13'S, 119°19'E.

### Family Polyphagidae

*Tivia australica* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)50(13): 3-4. Holotype, ♂, pinned, WAM 27-1541. P. Hopegood; reg. 27.x.1927; Lake Violet, W.A.; 26°32'S, 120°40'E.

### Family Pseudomorphidae

*Franwalkeria glauerti* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.*

(2)50(13): 34. Holotype, ♂, pinned, WAM 32-2797. E. Buggenthin; reg. 20.xii.1914; Merredin, W.A.; 31°29'S, 118°16'E.

*Hemsaussurea pedestris* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.*

(2)50(13): 43-44. Holotype, ♂, pinned, WAM 5139. W.B. Alexander; reg. 12.viii.1912; Mt Lawley, W.A.; 31°56'S, 115°52'E.

*Robshelfordia simplex* Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.*

(2)50(13): 38-39. Holotype, ♂, pinned, WAM 43-377. L. Glauert; col. 1-7.v.1943; Wamenusking, W.A.; 32°07'S, 117°35'E.

## ORDER ISOPTERA

### Family Termitidae

*Eutermes occasus* Silvestri, 1909, in vol. 2, pp. 307-308, *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 3, in alcohol, WAM 64-66a to 64-66c. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 32°22'S, 116°09'E.

*Microcerotermes distinctus* Silvestri, 1909, in vol. 2, pp. 303-304, *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 12, in alcohol, WAM 64-65a to 64-65l. Michaelsen and Hartmeyer Expd.; col. 2.vii.1905; Station 94, Coolgardie, W.A.; 30°57'S, 121°09'E.

*Microtermes kraepelini* Silvestri, 1909, in vol. 2, p.298. *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 4, in alcohol, WAM 64-63a to 64-63d. Michaelsen and Hartmeyer Expd.; col. 9-10.vii.1905; Station 101, Mundaring Weir, W.A.; 31°57'S, 116°10'E.

*Monodontermes hartmeyeri* Silvestri, 1909, in vol. 2, pp. 299-300, *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 64-64. Michaelsen and Hartmeyer Expd.; col. 9-10.vii.1905; Station 76, Day Dawn, W.A.; 27°28'S, 117°52'E.

## ORDER DERMAPTERA

### Family Labiduridae

*Gonolabis michaelensi* Burr, 1908, in vol. 2, pp. 73-76, *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, pinned, WAM 4364. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 33°22'S, 116°09'E.

*Gonolabis woodwardi* Burr, 1908, in vol. 2, pp. 76-79, *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, ♂ and ♀, pinned, WAM 4365 and 4366. Michaelsen and Hartmeyer Expd.; col. 31.v.1905; Station 152, Gooseberry Hill, W.A.; 31°57'S, 116°03'E.

## ORDER EMBIOPTERA

### Family Oligotomidae

*Oligotoma glauerti* Tillyard, 1923, *J.R. Soc. West. Aust.* **9**: 64-65. Holotype, ♂, microscope slide, WAM 22-355. L. Glauert; col. 26.v. 1922; Milly Milly Station, W.A.; 26°04'S, 116°41'E.

## ORDER HEMIPTERA

### Family Achilidae

*Bunduica rubrovenosa* Jacobi, 1909, in vol. 2, p. 345. *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 4255. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02'S, 117°38'E.

### Family Cicadidae

*Macrotristria douglasi* Burns, 1964, *Mem. natn. Mus. Melb.* no. 26: 105-106. Holotype, ♂, pinned, WAM 64-71. A.M. Douglas; col. 12.x.1955; Wotjulum, W.A.; 16°07'S, 123°43'E.

### Family Eurymelidae

*Eurymeloides lenis* Jacobi, 1909, in vol. 2, pp. 341. *Die Fauna Südwest-Australiaens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, pinned, WAM 4252. Michaelson and Hartmeyer Expd.; col. 20.vii.1905; Station 99, Lion Mill [=Mt Helena], W.A.; 31°53'S, 116°12'E.

*Ipoella douglasi* Evans, 1977, *Rec. Aust. Mus.* **31**: 87. Holotype, ♂, carded, WAM I.75 (=78-597). H. Douglas; reg. 24.viii.1978; Three Rivers Station, W.A.; 25°08'S, 119°09'E.

### Family Nepidae

*Ranatra occidentalis* Lansbury, 1972, *Trans R. ent. Soc. Lond.* **124**: 326-329. Holotype, ♂, pinned, WAM 66-435. R.P. McMillan; col. 23.vii.1955; Millstream, W.A.; 21°35'S, 117°04'E.

### **Family Notonectidae**

*Anisops nabilla* Lansbury, 1969, *J. nat. Hist.* **3**: 451-452. Holotype, ♂, pinned, WAM 66-522. R.P. McMillan; col. 12.vii.1958; Marillana [not Marilana], 14 miles [22 km] W of, W.A.; 22°38'S, 119°34'E.

### **Family Pentatomidae**

*Cuspiona cigniterrae* Gross, 1975, *Rec. S. Aust. Mus.* **17**: 132-134. Holotype, ♀, pinned, WAM 70-8. J. Dell; col. 3.iv.1963; Kalamunda, W.A.; 31°58'S, 116°03'E.

## **ORDER NEUROPTERA**

### **Family Mantispidae**

*Mantispa tillyardi* Esben-Petersen, 1915, *Proc. Linn. Soc. N.S.W.* **39**: 642-643. Syntype, ♂, pinned, WAM 7211. J. Gascoyne; reg. 20.iv.1913; Cuballing, W.A.; 32°49'S, 117°11'E.

### **Family Myrmeleontidae**

*Dendroleon lambda* Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 52-53. Holotype, pinned, WAM 6601. I. Handley; col. i.1912; Harvey, W.A.; 33°04'S, 115°54'E.

*Distoleon nigrosignatus* Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 64-65. Syntype, ♀, pinned, WAM 6898. O. Lipfert; col. 2.iii.1913 [not W.B. Alexander, 12.iii.1913]; Subiaco, W.A.; 31°57'S, 115°49'E.

*Pericylystus aureolatus* Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 50-52. Holotype, pinned, WAM 6972. S. Lundy; reg. 25.iii.1913; Cunderdin, W.A.; 31°39'S, 117°14'E.

*Protoplectron longitudinale* Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 48-49. Holotype, pinned, H22 (=WAM 78-610). G.H. Hardy; reg. 24.viii.1978. [Locality unknown.]

### **Family Nemopteridae**

*Chasmoptera mathewsi* Koch, 1967, *Proc. R. ent. Soc. Lond. (B)* **36** (9-10): 144. Holotype, ♂, pinned, WAM 35-435. H. Berry; reg. 12.xi.1934; Peron Peninsula (Shark Bay), W.A.; 25°50'S, 113°35'E.

*Chasmoptera superba* Tillyard, 1925, *J.R. Soc. West. Aust.* **12**: 2-4. Holotype, ♂, pinned, WAM 14-1386. C. Hamilton; reg. 19.xii.1914; Cunderdin, W.A.; 31°39'S, 117°14'E.

### **Family Psychopsidae**

*Psychopsis maculipennis* Tillyard, 1925, *Proc. Linn. Soc. N.S.W.* **50:** 389-390.  
Holotype, ♂, pinned, WAM 20-130. A. Hall; reg. 1.vi.1920; Roebourne, W.A.;  
20°47'S, 117°09'E.

### **ORDER COLEOPTERA**

#### **Family Buprestidae**

*Astraeus (Astraeus) smythi* Barker, 1975, *Trans. R. Soc. S. Aust.* **99:** 118-119.  
Holotype, ♂, pinned, WAM 73-55. E. Smith; reg. xi.1956; Maryborough,  
Qld; 25°32'S, 152°42'E.

*Astreaus (Astraeus) watsoni* Barker, 1975, *Trans. R. Soc. S. Aust.* **99:** 134.  
Holotype, ♀, pinned, WAM 71-1761. R.P. McMillan and J.A.L. Watson; col.  
16.xii.1957; Borden, W.A.; 34°04'S, 118°16'E.

*Astraeus (Depollus) dedariensis* Barker, 1975, *Trans. R. Soc. S. Aust.* **99:** 113-114.  
Holotype, ♂, pinned, WAM 71-1779. H.W. Brown; reg. 12.x.1971; Dedari,  
W.A.; 31°05'S, 120°42'E.

#### **Family Cerambycidae**

*Ancita longicornis* McKeown, 1948, *Rec. Aust. Mus.* **22:** 58-59. Holotype, ♂,  
carded, WAM 37-313. D. Wardell-Johnston; reg. 26.i.1937; Edjudina,  
W.A.; 29°49'S, 122°21'E.

*Bethelium inconspicuum* McKeown, 1948, *Rec. Aust. Mus.* **22:** 53. Holotype,  
carded, WAM 33-2392. A.K. Brown; reg. 1.xi.1933; Salmon Gums, W.A.;  
32°59'S, 121°39'E.

*Coptocercus sannio* McKeown, 1948, *Rec. Aust. Mus.* **22:** 52-53. Holotype, pinned,  
WAM 38-2326. J. Daniels; reg. 26.x.1938; Hopetoun, W.A.; 33°57'S, 120°07'E.

*Corrhenes glauerti* McKeown, 1948, *Rec. Aust. Mus.* **22:** 62-63. Holotype, pinned,  
WAM 30-886. F. Jones; reg. 2.xii.1930; Hampton Hill Station (Bulong), W.A.;  
30°45'S, 121°46'E.

*Didymocantha picta* McKeown, 1948, *Rec. Aust. Mus.* **22:** 53. Holotype, ♀,  
pinned, WAM 37-1737. D. Wardell-Johnson; reg. 6.iv.1937; Edjudina, W.A.;  
29°49'S, 122°21'E.

*Disterna forrestensis* McKeown, 1948, *Rec. Aust. Mus.* **22:** 59. Holotype, carded,  
WAM 15-369. J.A. Dobson; reg. 29.iv.1915; Forrest River District, W.A.;  
15°11'S, 127°50'E.

*Emecia fulva* McKeown, 1948, *Rec. Aust. Mus.* 22: 57-58. Holotype, ♀, carded, WAM 36-4828. A.M. Douglas; reg. 24.xi.1936; Kukerin, W.A.; 33°12'S, 118°05'E.

*Phacodes singularis* McKeown, 1948, *Rec. Aust. Mus.* 22: 51. Holotype, pinned, WAM 37-4588. A.M. Douglas; col. xii.1937; Narrogin, W.A.; 32°56'S, 117°11'E.

*Uracanthus dentiangularis* McKeown, 1948, *Rec. Aust. Mus.* 22: 55-57. Holotype, pinned, WAM 41-740. S. Gooch; reg. 13.vi.1941; Wandagee [not Wandadgee] Station, W.A.; 23°46'S, 114°33'E.

*Uracanthus fusostriatus* McKeown, 1948, *Rec. Aust. Mus.* 22: 55. Holotype, ♂, carded, WAM 32-242. A.G. McKenna; reg. 2.ii.1932; Maylands, W.A.; 31°56'S, 115°53'E.

*Uracanthus multilineatus* McKeown, 1948, *Rec. Aust. Mus.* 22: 54-55. Holotype, pinned, WAM 27-1497. P. Hopegood; reg. 27.x.1927; Lake Violet Station, W.A.; 26°32'S, 120°40'E.

### Family Curculionidae

*Catasarcus aerosus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 390-391. Holotype, ♂, pinned, WAM 70-359. E.B. Britton and A.M. Douglas; col. 14.xii.1961; Bolgart, W.A.; 31°16'S, 116°30'E.

*Catasarcus albipectus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 425-426. Holotype, ♂, pinned, WAM 49-1090. B. York [now B.Y. Main]; col. 1.ix.1949, Murchison River [mouth of], W.A.; 27°42'S, 114°12'E.

*Catasarcus aspergetus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 383-385. Holotype, ♂, pinned, WAM 70-356. F.H.U. Baker; col. ix.1959; Wialki, W.A.; 30°29'S, 118°07'E.

*Catasarcus asphaltinus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 407-411. Holotype, ♂, pinned, WAM 70-632. E.C. Chapman; col. 1953; Fremantle, W.A.; 32°03'S, 115°44'E.

*Catasarcus azureipes* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 385-386. Holotype, ♂, pinned, WAM 51-2105. A.M. Douglas; reg. 17.xii.1951; Lake Grace, W.A.; 33°06'S, 118°28'E.

*Catasarcus bakeri* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 381-382. Holotype, ♀, pinned, WAM 70-354. F.H.U. Baker; col. 23.iv.1955; Esperance, W.A.; 33°52'S, 121°54'E.

*Catasarcus bicolor* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 427-428. Holotype, ♂, pinned, WAM 70-365. F.H.U. Baker; col. 17.ix.1958; Lynton, W.A.; 28°12'S, 114°18'E.

*Catasarcus coruscus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 414-417. Holotype, ♂, pinned, WAM 45-771. L. Glauert; reg. 26.xi.1945; Yallingup, W.A.; 33°39'S, 115°01'E.

*Catasarcus cygnensis* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 412-414. Holotype, ♂, pinned, WAM 70-363. F.H.U. Baker; col. 5.x.1965; Applecross, W.A.; 31°57'S, 115°51'E.

*Catasarcus frontalis* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 402-404. Holotype, ♂, pinned, WAM 70-360. H.F. Broadbent; col. 1952?; Toodyay, W.A.; 31°33'S, 116°28'E.

*Catasarcus laevior* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 417. Holotype, ♂, pinned, WAM 70-364. H.F. Broadbent; col. 24.x.1952; Manjimup, W.A.; 34°15'S, 116°09'E.

*Castasarcus murex* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 441-443. Holotype, ♂, pinned, WAM 19-206. S.J. Clark; reg. xi.1919, Bridgetown, W.A.; 33°58'S, 116°08'E.

*Catasarcus obesus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 382-383. Holotype, ♂, pinned, WAM 70-355. F.H.U. Baker; col. 20.ix.1954; Lake Varley, W.A.; 32°48'S, 119°31'E.

*Catasarcus pallidiventris* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 406-407. Holotype, ♀, pinned, WAM 70-361. F.H.U. Baker; col. 8.xii.1962; Hill River, W.A.; 30°17'S, 115°19'E.

*Catasarcus ustulatus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 388-389. Holotype, ♀, pinned, WAM 70-358. J.A.L. Watson; col. 19.iv.1957; 161 mile peg [259 km] along Augusta Road, W.A.; 33°47'S, 115°08'E.

*Catasarcus varus* Thompson, 1968, *Bull. Br. Mus. nat. Hist. (Ent.)* 22(8): 386-387. Holotype, ♂, pinned, WAM 70-357. F.H.U. Baker; col. 5.v.1960; Esperance, W.A.; 33°52'S, 121°54'E.

*Notonophas gascoynensis* Baker, 1972, *J. Aust. ent. Soc.* 11: 123-125. Holotype, ♂, pinned, WAM 67-71. F.H.U. Baker; col. 22.viii.1962; Wooramal River (Gascoyne District), W.A.; 25°45'S, 114°16'E.

*Notonophas hirsutina* Baker, 1972, *J. Aust. ent. Soc.* 11: 125-127. Holotype, ♂, pinned, WAM 69-1638. F.H.U. Baker; col. 4.ix.1967, Winning Station (Lyndon District), W.A.; 23°09'S, 114°32'E.

### Family Dytiscidae

*Hypodes giuliani* Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 74. Holotype, ♂, carded, WAM 70-3366. D.D. Giuliani; col. 1.ix.1969; Beverley Springs, W.A.; 16°35'S, 125°29'E.

*Hypodes josepheni* Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 75-76. Holotype, ♂, carded, WAM 70-3367. D.D. Giuliani; col. ix.1969; Beverley Springs, W.A.; 16°35'S, 125°29'E.

*Hypodes tambreyi* Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 70-73. Holotype, ♂, pinned, WAM 69-1351. R.P. McMillan; col. 4.viii.1958; Tambrey, W.A.; 21°38'S, 117°36'E.

### Family Scarabaeidae

*Automolus phoxus* Britton, 1957, *A revision of the Australian chafers* 1: 97-98; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 8229. S. Lundy; col. ix-x.1913; Cunderdin, W.A.; 31°39'S, 117°14'E.

*Cryptoryctes psilus* Carne, 1957, *A systematic revision of the Australian Dynastinae*, pp.156-157; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 39-340 [= 39-339 in description]. A.M. Douglas; reg. ii.1939; Mt Jackson, W.A.; 30°12'S, 119°06'E.

*Cryptoryctes wingarus* Carne, 1957, *A systematic revision of the Australian Dynastinae*, p.161; Melbourne: CSIRO. Holotype, ♂, pinned, "J.R.11-97" (=WAM 78-599). reg. 24.viii.1978. [Locality unknown, presumably in W.A.]

*Epironastes abruptus* Carne, 1957, *A systematic revision of the Australian Dynastinae*, p.127; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 43-565. A.K. Brown; col. 8.vii.1943; Salmon Gums, W.A.; 32°59'S, 121°39'E.

*Epironastes nigrisetosus* Carne, 1957, *A systematic revision of the Australian Dynastinae*, p. 126; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 48-2721. A.M. Douglas; reg. 11.xii.1948; Tarin Rock to Lake Grace, W.A.; 33°07'S, 118°14'E to 33°06'S, 118°28'E.

*Haplopis rutila* Britton, 1957, *A revision of the Australian chafers* 1: 107; London: British Museum (Natural History). Holotype, ♂, carded, WAM 53-949. A.M. Douglas; reg. 18.v.1953; Chidlow, W.A.; 31°52'S, 116°16'E.

*Maechidinus sculptilis* Britton, 1957, *A revision of the Australian chafers* 1: 78; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 15-889. W.B. Alexander; reg. 17.x.1915; Waddouring [Hill], W.A.; 30°57'S, 117°51'E.

*Neodon glauerti* Carne, 1957, *A systematic revision of the Australian Dynastinae*, pp.44-45; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 45-102. L.A.C. Dawson; reg. 27.ii.1945; Onslow, W.A.; 21°38'S, 115°07'E.

*Neodon simplex* Carne, 1957, *A systematic revision of the Australian Dynastinae*, pp.45-46; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 48-576. F. Lambert; reg. iii.1948; Wittenoom Gorge, W.A.; 22°17'S, 118°19'E.

*Phyllotocus pelus* Britton, 1957, *A revision of the Australian chafers 1*: 46; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 36-4237. A.M. Douglas; reg. 4.xi.1936; Kukerin, W.A.; 33°12'S, 118°05'E.

*Teinogenus annectens* Carne, 1957, *A systematic revision of the Australian Dynastinae*, p.145; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 32-2827. E. Buggenthin; reg. 20.xii.1932; Merredin, W.A.; 31°29'S, 118°16'E.

*Termitophilus spadix* Britton, 1957, *A revision of the Australian chafers 1*: 126-127; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 40-1537. L. Glauert; reg. 7.xi.1940; Calgadup, W.A.; 34°02'S, 115°00'E.

*Tesserodon tenebroides* Matthews, 1974, *Aust. J. Zool. (Suppl.)* no. 24: 84. Holotype, ♂, pinned, WAM 66-107. W.H. Butler; col. 26.v.1964; Barrow I., W.A.; 20°46'S, 115°24'E.

## ORDER SIPHONAPTERA

### Family Pygiopsyllidae

*Glauertia scintilla* Rothschild, 1936, *Novit. zool.* 40: 9-13. Syntypes, 4 ♀, microscope slides, WAM 24-829a to 24-829c, and 28-2. F.R. Bradshaw; reg. 10.ix.1924; Tambellup, W.A.; 34°02'S, 117°38'E.

## ORDER DIPTERA

### Family Agromyzidae

*Cerodontha (Cerodontha) augustensis* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 145-147. Holotype, ♀, pinned, WAM 78-553. K.A. Spencer; col. 20.xi.1975; Augusta, W.A.; 34°19'S, 115°09'E.

*Liriomyza cassiniae* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 190-191. Holotype, ♂, pinned, WAM 78-554. K.A. Spencer; col. 2.xi.1975; Black Mountain, A.C.T.; 35°16'S, 149°06'E.

*Liriomyza oleariana* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 205-206. Holotype, ♂, pinned, WAM 78-555. K.A. Spencer; col. 18.xi.1975; Busselton, 10 miles [16 km] S of, W.A.; 33°45'S, 115°09'E.

*Liriomyza scaevolae* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 208-210.

Holotype, ♂, pinned, WAM 78-556. K.A. Spencer; col. 30.ix.1975; Cape Leeuwin, W.A.; 34°22'S, 115°08'E.

*Melanagromyza prodigiosa* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8:

52. Holotype, ♂, pinned, WAM 78-557. K.A. Spencer; col. 27.ix.1975; Eagle Bay, near Dunsborough, W.A. 33°33'S, 115°04'E.

*Ophiomyia fera* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 83-84.

Holotype, ♂, pinned, WAM 78-558. K.A. Spencer; col. 26.ix.1975; Lake Cooloongup, W.A.; 32°17'S, 115°47'E.

*Phytomyza anthocercidis* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8:

223-224. Holotype, ♂, pinned, WAM 78-559. K.A. Spencer; col. 5.x.1975; Windy Harbour, S. of Northcliffe, W.A.; 34°38'S, 116°07'E.

*Phytomyza ranunculicaulis* Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8:

230-231. Holotype, ♂, pinned, WAM 78-560. K.A. Spencer; col. 5.x.1975; Mt Chudalup, S. of Northcliffe, W.A.; 34°46'S, 116°05'E.

### Family Apioceridae

*Apiocera deformata* Norris, 1936, *J.R. Soc. West. Aust.* 22: 54-56. Holotype, ♂, pinned, WAM 36-1605. B.A. O'Connor; reg. 9.iv.1936; Gnangara, W.A.; 31°48'S, 115°42'E.

*Apiocera englishae* Paramonov, 1953, *Aust. J. Zool.* 1: 511-512. Holotype, ♂, pinned, WAM 41-452. A.K. Brown; reg. 5.iii.1941; Salmon Gums, W.A.; 32°59'S, 121°39'E.

*Apiocera flabellata* Paramonov, 1953, *Aust. J. Zool.* 1: 534-535. Holotype, ♂, pinned, WAM 48-3211. A.M. Douglas; reg. 31.xii.1948; Bullsbrook, W.A.; 31°40'S, 115°59'E. [Not in "Division of Entomology Museum, CSIRO, Canberra" as stated in description.]

*Apiocera minor* Norris, 1936, *J.R. Soc. West. Aust.* 22: 61-62. Holotype, ♂, pinned, WAM 36-1625. D.C. Swan; col. xi., reg. iv.1936; Carlisle, W.A.; 31°59'S, 115°54'E.

*Apiocera newmanni* Norris, 1936, *J. Roy. Soc. West. Aust.* 22: 62-63. Holotype, ♀, pinned, WAM 36-1620. B.A. O'Connor; col. xi.1930; Gnangara, W.A.; 31°48'S, 115°42'E.

*Apiocera ordana* Paramonov, 1953, *Aust. J. Zool.* 1: 535-536. Holotype, ♂, pinned, WAM 51-1653. A.J. Drysdale, reg. 13.viii.1951; Ord River, W.A.; about 15°30'S, 128°30'E.

*Apiocera pallida* Norris, 1936, *J.R. Soc. West. Aust.* **22**: 59-60. Holotype, ♂, pinned, WAM 36-1608. K.R. Norris, col. 2.ii.1936; Carnac I., W.A.; 32°07'S, 115°40'E.

*Apiocera pica* Norris, 1936, *J.R. Soc. West. Aust.* **22**: 56-57. Holotype, ♂, pinned, WAM 36-1590. B.A. O'Connor, col. xi.1930; Gnangara, W.A.; 31°48'S, 115°42'E.

*Apiocera tonnoiri* Norris, 1936, *J.R. Soc. West. Aust.* **22**: 57-59. Holotype, ♂, pinned, WAM 36-1599. K.R. Norris; col. 9.ii.1936; Fremantle, W.A.; 32°03'S, 115°44'E.

*Neorhaphiomidas hardyi* Norris, 1936, *J.R. Soc. West. Aust.* **22**: 64-66. Holotype, ♂, pinned, WAM 36-1635. K.R. Norris; col. 9.ii.1936; Fremantle, W.A.; 32°03'S, 115°44'E.

*Neorhaphiomidas pallida* Paramonov, 1953, *Aust. J. Zool.* **1**: 531. Holotype, ♀, pinned, WAM 36-5567. A.M. Douglas; reg. 9.xii.1936; Wanneroo, W.A.; 31°45'S, 115°48'E.

*Neorhaphiomidas pinguis* Norris, 1936, *J.R. Soc. West. Aust.* **22**: 66-68. Holotype, ♂, pinned, WAM 36-1641. K.R. Norris; col. 23.ii.1936; Rottnest I., W.A.; 32°00'S, 115°30'E.

*Neorhaphiomidas villosa* Paramonov, 1953, *Aust. J. Zool.* **1**: 531-532. Holotype, ♂, pinned, WAM 35-3436. A.M. Douglas; reg. 15.xii.1935; Midland, W.A.; 31°53'S, 116°00'E.

### Family Chironomidae

*Anatopynia dalyupensis* Freeman, 1961, *Aust. J. Zool.* **9**: 624. Holotype, ♂, pinned, WAM 64-1. D.H. Edward; adult emerged 7.v.1958; Dalyup River. W.A.; 33°44'S, 121°34'E.

*Lundstroemia parthenogenetica* Freeman, 1961, *Aust. J. Zool.* **9**: 721. Holotype, ♀, pinned, WAM 64-4. D.H. Edward; adult emerged 19.viii.1958; Lake Gwelup, W.A.; 31°53'S, 115°38'E.

*Polypedilum (Polypedilum) watsoni* Freeman, 1961, *Aust. J. Zool.* **9**: 710. Holotype, ♂, pinned, WAM 64-3. J.A.L. Watson; col. 18.vii.1958; Millstream Station, W.A.; 21°35'S, 117°04'E.

*Stenochironomus watsoni* Freeman, 1961, *Aust. J. Zool.* **9**: 705-706. Holotype, ♂, pinned, WAM 64-2. J.A.L. Watson; col. 25.vii.1958; Millstream Station, W.A.; 21°35'S, 117°04'E.

*Tanytarsus (Tanytarsus) barbitarsus* Freeman, 1961, *Aust. J. Zool.* **9**: 722-723.  
Holotype, ♂, pinned, WAM 64-5. D.H. Edward; col. 5.iv.1958; Bremer Bay,  
W.A.; 34°23'S, 119°23'E.

#### Family Culicidae

*Theobaldia atra* Lee, 1944, *Proc. Linn. Soc. N.S.W.* **64**: 220-221. Holotype, ♀,  
pinned, WAM 45-150. P.N. Forte; col. 16.xi.1943; Perth, W.A.; 31°57'S,  
115°51'E.

#### Family Mydaidae

*Diochlistus paragracilis* Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8**: 134.  
Holotype, ♂, pinned, WAM 48-2943. A.M. Douglas; reg. 24.xii.1948; Kukerin,  
W.A.; 33°12'S, 118°05'E.

*Miltinus atripennis* Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8**: 134. Holotype,  
♂, pinned, WAM 48-2942. A.M. Douglas; reg. 24.xii.1948; Kukerin, W.A.;  
33°12'S, 118°05'E.

*Miltinus cinctus* Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8**: 135. Syntypes, ♂  
and ♀, pinned, WAM 51-2145 and 48-2944. A.M. Douglas; reg. 17.xii.1951;  
Lake Grace, W.A.; 33°06'S, 118°28'E, and A.M. Douglas; reg. 24.xii.1948;  
Kukerin, W.A.; 32°12'S, 118°05'E.

*Miltinus confrater* Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8**: 134. Holotype,  
♂, pinned, WAM 49-2145. K.G. Buller; reg. 28.xi.1949; Jandakot, W.A.;  
32°07'S, 115°50'E.

*Miltinus mackerrasi* Norris, 1937, *J.R. Soc. West. Aust.* **23**: 46-48. Holotype, ♂,  
pinned, WAM 37-2375. K.R. Norris; reg. 8.vi.1937; Crawley, W.A.; 31°57'S,  
115°51'E.

#### Family Nemestrinidae

*Trichophthalma glauerti* Paramonov, 1953, *Aust. J. Zool.* **1**: 286-287. Holotype,  
♂, pinned, WAM 42-708. L. Glauert; reg. 30.xi.1942; Yallingup, W.A.;  
33°39'S, 115°01'E.

#### Family Pyrgotidae

*Adapsona fulva* Paramonov, 1958, *Aust. J. Zool.* **6**: 107. Holotype, ♀, pinned,  
WAM 78-607 [not 41-1151]. reg. 24.viii.1978. Brookton (?), W.A.; 32°22'S,  
117°00'E(?).

#### Family Tipulidae

*Leptotarsus (Leptotarsus) kalamundensis* Dobrotworsky, 1972, *Aust. J. Zool.*

(Suppl.) no. 16: 26—27. Holotype, ♀, pinned, WAM 65-159. R.P. McMillan; col. 16.iv. 1960; Kalamunda, W.A.; 31°58'S, 116°03'E.

## ORDER TRICHOPTERA

### Family Leptoceridae

*Triplectides delicatula* Ulmer, 1908, in vol. 2, pp.27-29, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2 ♂, pinned, WAM 7086 and 7086a. Michaelsen and Hartmeyer Expd.; col. 7.x.1905, Station 139, Brunswick, W.A.; 33°15'S, 115°50'E.

*Triplectides flava* Ulmer, 1908, in vol. 2, pp.29-30, *Die Fauna Südwest- Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 7087. Michaelson and Hartmeyer Expd.; col. 23-25.ix.1905; Station 131, Serpentine, W.A.; 32°22'S, 115°58'E.

### Family Philopotamidae

*Dolophilus michaelseni* Ulmer, 1908, in vol. 2, pp. 36-37, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 7088. Michaelsen and Hartmeyer Expd.; col. 7.x.1905; Station 139, Brunswick, W.A.; 33°15'S, 115°50'E.

## ORDER LEPIDOPTERA

### Family Pyralidae

*Hednota koojanensis* Koch, 1966, *J.R. Soc. West. Aust.* **49**: 110-111. Holotype, ♂, pinned, and genitalia on microscope slide, WAM 63-441 and 66-441a. L.E. Koch; col. 24.iii.1961; Koojan, W.A.; 30°48'S, 116°01'E.

### Family Geometridae

*Amelora fucosa* Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44**: 307-308. Holotype, ♂, pinned, WAM 7208. J. Burnside; reg. 20.iv.1913; Perth, W.A.; 31°57'S, 115°51'E.

*Angelia melanocroca* Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44**: 300. Holotype, ♂, pinned, WAM 7320. Burnside; reg. 28.v. 1913; Perth, W.A.; 31°57'S, 115°51'E.

*Chlenias basichorda* Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44**: 403. Holotype, ♂, pinned, and genitalia on microscope slide, WAM 7433 and 7433a. W.B. Alexander; col. 17.vi.1913; Claremont, W.A.; 31°59'S, 115°47'E.

*Chlenias macrochorda* Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44**: 403-404. Holotype, ♀, pinned, and genitalia on microscope slide, WAM 6318 and 6318a. W.B. Alexander; col. 26.iv.1912; Claremont, W.A.; 31°59'S, 115°47'E.

### Family Notodontidae

*Antimima cryptica* Turner, 1917, *Proc. R. Soc. Qd* **29**: 73. Holotype, ♀, pinned, WAM 4729. A. Ventris; reg. 3.iv.1911; Quindalup, W.A.; 33°38'S, 115°09'E.

*Discophlebia lipauges* Turner, 1917, *Proc. R. Soc. Qd* **29**: 74. Holotype, ♂, pinned, WAM 7300. W.R.V. Wing; reg. 22.v.1913; Nannup, W.A.; 33°59'S, 115°45'E.

*Pheraspis symmetra* Turner, 1917, *Proc. R. Soc. Qd* **29**: 73-74. Holotype, ♂, pinned, WAM 7457. Thorpe; reg. 26.vi.1913; Derby, W.A.; 17°19'S, 123°38'E.

### ORDER HYMENOPTERA

#### Family Anthophoridae

*Allodapula occidentalis* Michener and Syed, 1962, *J. ent. Soc. Qd* **1**: 41. Holotype, ♂, pinned, WAM 65-732. R.P. McMillan; col. 2.vii. 1958; Tambrey, W.A.; 21°38'S, 117°36'E.

*Crocisa albifrons* Rayment, 1931, *J.R. Soc. West. Aust.* **17**: 172-173. Holotype, ♀, pinned, WAM 29-883. L. Glauert; col. iv-v.1929; Landor Station, W.A.; 25°08'S, 116°54'E.

*Exoneura pictifrons* Alfken, 1907, in vol. 1, pp.260-261, *Die Fauna Südwest Australiens*; ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2, pinned, WAM 4796 and 4797. Michaelsen and Hartmeyer Expd.; col. 21.ix.1905; Station 127-128. Mundijong, W.A.; 32°18'S, 115°59'E.

*Thyreus sicarius* Lieftinck, 1962, *Zool. Verh. Leiden* no. 53: 200-203. Holotype, ♀, pinned, WAM 64-39. A.M. Douglas; reg. 6.ii.1964. W.A. [Exact locality unknown.]

#### Family Colletidae

*Brachyhesma (Brachyhesma) dedari* Exley, 1968, *Aust. J. Zool.* **16**: 186-188. Holotype, ♂, pinned, WAM 54-736. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16'S, 119°51'E and 31°05'S, 120°42'E.

*Brachyhesma (Microhesma) dichaeta* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 287-288. Holotype, ♀, pinned, WAM 33-662. L. Glauert; col. 26.ii.-1.iii.1933; Rottnest I., W.A.; 32°00'S, 115°30'E.

*Ctenocolletes ordensis* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 267-268. Holotype, ♂, pinned, WAM 65-728. A.M. Douglas; col. 3.x.1955; Wotjulum, W.A.; 16°07'S, 123°43'E.

*Dasyhesma robusta* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 284-285. Holotype, ♀, pinned, WAM 54-127. A.M. Douglas; col. 6.i.1954; Pearce, W.A.; 31°40'S, 116°01'E.

*Euryglossa inconspicua lutea* Rayment, 1934, *J.R. Soc. West. Aust.* **20**: 204.  
Holotype, ♀, pinned (abdomen missing), WAM 32-563. L. Glauert; reg. 7.iii.1932; Rottnest I., W.A.; 32°00'S, 115°30'E.

*Euryglossa (Euryglossa) calaina* Exley, 1976, *Aust. J. Zool. (Suppl.)* no. **41**: 9-10.  
Holotype, ♀, pinned, WAM 54-1417. A.M. Douglas; col. 3.ii.1954; Cranbrook, W.A.; 34°18'S, 117°33'E.

*Euryglossa (Xenohesma) clypearis* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 278.  
Holotype, ♀, pinned, WAM 44-559. L. Glauert; reg. 29.ix.1944; Broomehill, W.A.; 33°51'S, 117°38'E.

*Euryglossa (Xenohesma) scutellaris* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 280-281.  
Holotype, ♀, pinned, WAM 31-1255. L. Glauert; col. 18.x.1931; Seabrook, W.A.; 31°40'S, 116°44'E.

*Euryglossina (Euryglossina) douglasi* Exley, 1968, *Aust. J. Zool.* **16**: 941-942.  
Holotype, ♀, carded, WAM 54-678. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16'S, 119°51'E and 31°05'S, 120°42'E.

*Euryglossina microdonta* Rayment, 1934, *J.R. Soc. West. Aust.* **20**: 203.  
Holotype, ♀, carded, WAM 33-824. L. Glauert; col. 4-5.iii.1933; Rottnest I., W.A.; 32°00'S, 115°30'E.

*Euryglossula carnarvonensis* Exley, 1968, *Aust. J. Zool.* **16**: 204-206.  
Holotype, ♀, carded, WAM 67-1. A. Snell; col. 2.ix.1953; Carnarvon, W.A.; 24°53'S, 113°40'E.

*Hesperocolletes douglasi* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 262-263.  
Holotype, ♂, pinned, WAM 38-2607. A.M. Douglas; col. 9-12.xi.1938;  
Rottnest I., W.A.; 32°00'S, 115°30'E.

*Hylaeus (Hylaeteron) hemirhodus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 294-295.  
Holotype, ♀, pinned, WAM 65-731. A.M. Douglas; col. 12.x.1955;  
Wotjulum, W.A.; 16°07'S, 123°43'E.

*Hylaeus (Prospisteron) albozebratus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 289-290.  
Holotype, ♂, pinned, WAM 65-729. A. Snell; col. 2.ix.1953;  
Carnarvon, W.A.; 24°53'S, 113°40'E.

*Hylaeus (Prosopisteron) douglasi* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 290-291.  
Holotype, ♂, pinned, WAM 50-4447. A.M. Douglas; col. ix.1950?;  
Morawa, W.A.; 29°13'S, 116°00'E.

*Hylaeus (Prosopisteron) simplex* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 291-292.  
Holotype, ♀, pinned, WAM 65-730. A.M. Douglas; col. 20.x.1947;  
Merredin, W.A.; 31°29'S, 118°16'E.

- Leioproctus (Andrenopsis) douglasiellus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 259-260. Holotype, ♀, pinned, WAM 54-128. A.M. Douglas; col. 1.i.1954; Pearce, W.A.; 31°40'S, 116°01'E.
- Leioproctus (Baecolletes) calcaratus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 257-258. Holotype, ♀, pinned, WAM 52-3071. A. Snell; reg. x.1952; Belele, W.A.; 26°22'S, 118°01'E.
- Leioproctus (Colletopsis) contrarius* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 252. Holotype, ♀, pinned, WAM 54-55. A.M. Douglas; col. 31.xii.1953; Bullsbrook, W.A.; 31°40'S, 115°59'E.
- Leioproctus (Glossurocolletes) xenoceratus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 254-255. Holotype, ♂, pinned, WAM 65-725. P.N. Forte; col. 10.xi.1940; Capel, W.A.; 33°33'S, 115°33'E.
- Leioproctus (Leioproctus) megachalcooides* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 246-247. Holotype, ♀, pinned, WAM 65-724. L.J. Newman; col. ix; Mullewa, W.A.; 28°32'S, 115°30'E.
- Leioproctus (Urocolletes) rhodurus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 253. Holotype, ♀, pinned, WAM 37-3797. A.M. Douglas; reg. 14.ii.1937; Midland, W.A.; 31°53'S, 116°00'E.
- Melitribus glauerti* Rayment, 1930, *Victorian Nat.* **47:** 3-9. Holotype, ♀, pinned, WAM 19-224. L.V. Nock; reg. 21.xi.1919; Yorkkrakine, W.A.; 31°22'S, 117°35'E.
- Meroglossa miranda* Rayment, 1930, *Proc. R. Soc. Vict.* **43:** 45. Holotype, ♂, pinned, WAM 22-284. L. Glauert; reg. 24.vi.1922; Milly Milly Station, W.A.; 26°04'S, 116°41'E.
- Neopasiphae simplicior* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 262. Holotype, ♂, pinned, WAM 65-726. R.P. McMillan; col. 16.x.1954; Cannington, W.A.; 32°01'S, 115°57'E.
- Paracolletes submacrodontus* Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 206-207. Holotype, ♂, pinned, WAM 33-528. L. Glauert; col. 18-19.ii.1933; Rottnest I., W.A.; 32°00'S, 115°30'E.
- Trichocolletes (Callocolletes) pulcherrimus* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 265-266. Holotype, ♂, pinned, WAM 65-727. col. 1.xi.1935; Narrogin, W.A.; 32°56'S, 117°11'E.
- Turnerella glauerti* Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 202. Holotype, ♀, carded, WAM 33-816a. L. Glauert; col. 4-5.iii.1933; Rottnest I., W.A.; 32°00'S, 115°30'E.

*Xanthesma nigrior* Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130**: 282-283.

Holotype, ♂, pinned, WAM 54-564. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16'S, 119°51'E and 31°05'S, 120°42'E.

*Xanthesma parva* Exley, 1969, *Aust. J. Zool.* **17**: 522-523. Holotype, ♀, carded, WAM 48-3082. A.M. Douglas; reg. xii.1948; Kukerin, W.A.; 33°12'S, 118°05'E.

### Family Formicidae

*Calomyrmex glauerti* Clark, 1930, *Proc. R. Soc. Vict.* **42**: 125. Holotype, worker, carded, WAM 22-391. L. Glauert; col. 13.v. 1922; Milly Milly Station, W.A.; 26°04'S, 116°41'E.

*Leptanilla swani* Wheeler, 1932, *Psyche* **39**: 54-58. Syntypes, 3 workers, carded, WAM 32-1252 to 32-1254. W.M. Wheeler; reg. 9.vi.1932; Goyamin Pool, Chittering, W.A.; 31°28'S, 116°06'E.

*Lithomyrmex glauerti* Clark, 1927, *J.R. Soc. West. Aust.* **14**: 31-32. Syntypes, ♂, ♀, and 2 workers, carded, WAM 26-605a to 26-605d. L. Glauert; col. viii.1926; Irwin River, W.A.; 29°13'S, 115°05'E.

*Myrmecia inquilina* Douglas and Brown, 1959, *Insectes soc.* **6**: 13-16. Holotype, ♀, pinned, WAM 64-38. A.M. Douglas; col. 23.iii.1955; Badjanning Rocks, 4 miles [6 km] NW of Wagin, W.A.; 33°19'S, 117°20'E.

*Rhytidoponera tyloxys* Brown and Douglas, 1958, *Bull. Mus. comp. Zool. Harv.* **118**: 282-284. Holotype, worker, carded, WAM 64-37. K.G. Buller; col. vi.1952; Woodstock Station, W.A.; 21°37'S, 118°57'E.

### Family Gasteruptiidae

*Gasteruption mirabilifemorale* Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56**: 76-77. Holotype, ♀, pinned, WAM 36-1052. A.M. Douglas; reg. 19.iii.1936; W. Midland, W.A.; 31°53'S, 116°00'E.

*Gasteruption nigerrimum* Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56**: 92. Holotype, ♀, pinned, WAM 53-366. R.P. McMillan; col. 16.i.1953; Cannington, W.A.; 32°01'S, 115°57'E.

*Gasteruption subconicum* Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56**: 44-46. Holotype, ♀, pinned, WAM 37-4519. A.M. Douglas; reg. xi-xii.1937; Narrogin, W.A.; 32°56'S, 117°11'E.

### Family Halictidae

*Halictus bremerensis* Rayment, 1931, *J.R. Soc. West. Aust.* **17**: 171. Holotype, ♀, pinned, WAM 16-63. W.B. Alexander; col. i.1916; Bremer Bay, W.A.; 34°23'S, 119°23'E.

### **Family Ichneumonidae**

*Habronyx (Austranomalon) atropos* Gauld, 1976, *Aust. J. Zool.* **24:** 622. Holotype, ♀, carded, WAM 78-602. L. Glauert; col. ix.1943; Wamenusking, W.A.; 32°07'S, 117°35'E.

### **Family Megachilidae**

*Megachile clypeata grandis* Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 209. Holotype, ♀, pinned, WAM 32-89. L. Glauert; reg. i.1932; Rottnest I. (near Government House Lake), W.A.; 32°00'S, 115°30'E.

*Megachile rottnestensis* Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 209-210. Holotype, ♂, pinned, WAM 31-1856. L. Glauert; reg. xii.1931; Rottnest I. (Bathurst Point), W.A.; 31°59'S, 115°32'E.

*Megachile subremotula* Rayment, 1934, *J. R. Soc. West. Aust.* **20:** 210. Holotype, ♀, pinned, WAM 31-1846. L. Glauert; reg. xii.1931; Rottnest I. (Bathurst Point), W.A.; 31°59'S, 115°32'E.

### **Family Pergidae**

*Clarissa hebe* Benson, 1963, *J.R. Soc. West. Aust.* **46:** 83-84. Holotype, ♀, pinned, WAM 64-7. A.M. Douglas; col. 29.vii.1958; Tambrey, W.A.; 21°38'S, 117°36'E.

*Eurys aglaia* Benson, 1963, *J.R. Soc. West. Aust.* **46:** 82-83. Holotype, ♀, pinned, WAM 64-6. A.M. Douglas; col. 5.ix.1962; Yanchep, W.A.; 31°33'S, 115°41'E.

*Phylacteophaga eucalypti occidens* Benson, 1963, *J.R. Soc. West. Aust.* **46:** 84. Holotype, ♀, pinned, WAM 64-8. A.M. Douglas; col. 20.ix.1962; Nollamara, W.A.; 31°57'S, 115°51'E.

### **Family Sphecidae**

*Bembix goyarra* Evans and Matthews, 1973, *Mem. Am. ent. Inst.* no. 20: 84-85. Holotype, ♂, pinned, WAM 71-804. T. Moriarty; col. 1963; Kathleen Valley, W.A.; 27°24'S, 120°39'E.

*Bembix mundurra* Evans and Matthews, 1973, *Mem. Am. ent. Inst.* no. 20: 179-183. Holotype, ♂, pinned, WAM 73-644. H.E. Evans and R.W. Matthews; col. 1.x.1969; Mullewa, 6 miles [10 km] W of, W.A.; 28°32'S, 115°27'E.

*Sericophorus occidentalis* Rayment, 1955, *Mem. natn. Mus. Melb.* no. 19: 28-29. Holotype, ♀, pinned, WAM 37-3929. A.M. Douglas; reg. 3.xii.1937; Narrogin, W.A.; 32°56'S, 117°11'E.

CLASS ONYCHOPHORA  
ORDER MALACOPODA

**Family Peripatopsidae**

*Peripatoides woodwardi* Bouvier, 1909, in vol. 2, p.315, *Die Fauna Südwest-Australiens*; ed. W. Michaelsen and R. Hartmeyer. Holotype, ♀, in alcohol, WAM 4424. Michaelsen and Hartmeyer Expd.; col. 22.v.-11.x.1905; Station 99, Lion Mill [= Mt Helena], W.A.; 31°53'S, 116°12'E.

CLASS PYCNOGONIDA

ORDER PANTOPODA

**Family Ammotheidae**

*Ammothella biunguiculata australiensis* Williams, 1940, *J. R. Soc. West. Aust.* 25: 197-200. Lectotype [designated by Child, 1975, *Smithson. Contr. Zool.* no. 190: 26], ♀, in alcohol, and four microscope slides of parts, WAM 70-80 and 70-80a to 70-80d. L. Glauert; reg. 28.v.1970; Rottnest I. (Bathurst Point), W.A.; 31°59'S, 115°32'E.

*Nymphopsis acinacispinatus bathursti* Williams, 1940, *J. R. Soc. West. Aust.* 25: 200-201. Lectotype [designated by Child, 1975, *Smithson. Contr. Zool.* no. 190: 26-27], ♂, in alcohol, WAM 70-160. L. Glauert; reg. 28.v.1970; Rottnest I. (Bathurst Point), W.A.; 31°59'S, 115°32'E.

**Family Callipallenidae**

*Pallenopsis cidaribatus* Child, 1975, *Smithson. Contr. Zool.* no. 190: 16-18. Holotype, ♂, in alcohol, WAM 70-3938. CSIRO Station; col. 5.x.1963; at 128-141 metres depth, W. of North West Cape, W.A.; 21°50'S, 113°46'E.

*Pycnothea flynni* Williams, 1940, *J. R. Soc. West. Aust.* 25: 202-204. Holotype, ♂, in alcohol, and six microscope slides of parts, WAM 135-62 (= 78-595 and 78-595a to 78-595f). L. Glauert; reg. 24.viii.1970; Rottnest I. (Bathurst Point), W.A.; 31°59'S, 115°32'E.

**Family Colossendeidae**

*Rhopalorhynchus dampieri* Child, 1975, *Smithson. Contr. Zool.* no. 190: 8-10. Holotype, ♂, in alcohol, WAM 70-3953. CSIRO Station; col. 5.ii.1964; at 113-122 metres depth, W. of Lancelin I., W.A.; 31°05'S, 114°55'E.

### **Family Nymphonidae**

*Nymphon flindersi* Child, 1975, *Smithson. Contr. Zool.* no. 190: 3-5. Holotype, ♀, in alcohol, WAM 73-76. L.M. Marsh and M.H. Shepherd; col. 8.iii.1972; at 17-33 metres depth, W. of Garden I., W.A.; 32°13'S, 115°33'E to 32°13'S, 115°31'E.

*Nymphon rottnesti* Child, 1975, *Smithson. Contr. Zool.* no. 190: 5-7. Holotype, ♀, in alcohol, WAM 70-3985. CSIRO Station; col. 12.x.1963; at 137-143 metres depth, W. of Rottnest I., W.A.; 32°00'S, 115°16'E.