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Checklist of the New Zealand Heteroptera (Insecta: Hemiptera): an update based on the 2004 to 2013 literature

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Abstract

An updated checklist of the New Zealand Heteroptera (Insecta: Hemiptera) is provided as a supplement to the “Heteroptera (Insecta: Hemiptera): catalogue” of Larivière and Larochelle (2004: *Fauna of New Zealand* 50). A total of 142 genera and 319 species belonging to 28 families are recorded for New Zealand. Changes to the 2004 catalogue are documented. The synonymy and primary type information of taxa described between 2004 and July 2013 are also given. The presence of the anthocorid *Macrotrachelia nigronitens* in New Zealand is confirmed.

Key words: catalogue, true bugs, taxonomy, nomenclature, biodiversity

Introduction

This checklist of New Zealand Heteroptera (Insecta: Hemiptera) provides an update, with additions and corrections, to the list of taxa catalogued by Larivière & Larochelle (2004). The known New Zealand fauna is highly endemic (40% of genera, 81% of species) and accounts for 142 genera and 319 species in 28 families. Adventive species (36) and native although not endemic species (24) account for 11% and 8% of the fauna respectively.

The following table gives a summary of the known number of genera and species of Heteroptera by infraorder and family for New Zealand. A similar table was published by Henry (2009: 225–226) for the Australian, Nearctic, and Palearctic regions of the world. Numbers between parentheses indicate endemic taxa.

Taxon	New Zealand	
	Genus	Species
Enicocephalomorpha	6(4)	8(8)
Aenictopecheidae	3(2)	4(4)
Enicocephalidae	3(2)	4(4)
Dipsocoromorpha	2(0)	3(3)
Ceratocombidae	1(0)	2(2)
Schizopteridae	1(0)	1(1)
Gerromorpha	5(1)	5(2)
Gerridae (Gerroidea)	1(0)	1(0)
Hydrometridae (Hydrometroidea)	1(0)	1(0)
Mesoveliidae (Mesovelioidae)	2(1)	2(1)
Veliidae (Gerroidea)	1(0)	1(1)
Nepomorpha	4(0)	8(7)
Corixidae (Corixoidea)	3(0)	6(5)

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TABLE. (Continued)

Taxon	New Zealand	
	Genus	Species
Notonectidae (Notonectoidea)	1(0)	2(2)
Leptopodomorpha	1(0)	7(7)
Saldidae (Saldoidea)	1(0)	7(7)
Cimicomorpha	60(24)	152(120)
Anthocoridae <i>sensu lato</i> (Cimicoidea)	7(1)	9(4)
Cimicidae (Cimicoidea)	1(0)	1(0)
Miridae (Miroidea)	43(22)	127 (109)
Nabidae (Naboidea)	2(0)	4(2)
Reduviidae (Reduvioidea)	3(0)	7(4)
Tingidae (Miroidea)	4(1)	4(1)
Pentatomomorpha	64(28)	136 (111)
Acanthosomatidae (Pentatomoidea)	2(1)	4(4)
Aradidae (Aradoidea)	19(12)	39(38)
Artheneidae (Lygaeoidea)	1(1)	1(1)
Berytidae (Lygaeoidea)	1(0)	1(1)
Coreidae (Coreoidea)	1(0)	1(0)
Cymidae (Lygaeoidea)	1(0)	1(0)
Cydnidae (Pentatomoidea)	4(1)	4(1)
Heterogastridae (Lygaeoidea)	1(0)	1(0)
Lygaeidae (Lygaeoidea)	4(2)	34(32)
Pentatomidae (Pentatomoidea)	8(1)	8(1)
Rhyparochromidae (Lygaeoidea)	22(10)	42(33)
Total	142 (57)	319 (258)

Method

The checklist is based on a review of the literature from 2004 to July 2013, with the recent addition of the revised classification of the subfamily Phylinae (Miridae) published by Schuh & Menard in October 2013. Valid names are arranged alphabetically from family to species and subspecies. Higher categories are those adopted by Larivière & Laroche (2004), with some exceptions discussed below. The biostatus (Adventive, Endemic, Native i.e. indigenous but not endemic) is indicated, as in the 2004 catalogue, for all genus-group and species-group taxa. Page references to the main taxonomic entries in the 2004 catalogue are indicated between square brackets ([]). Full synonymies and primary type information are provided, in the same format as in the 2004 catalogue, where nomenclatural changes have occurred or new taxa have been described. The bibliographic references supporting the corrections and changes to the checklist are included below. Readers are referred to Larivière & Laroche (2004) for a comprehensive bibliography of papers dealing with the nomenclature of New Zealand Heteroptera.

Abbreviations for type repositories are as follows:

AM—Australian Museum, Sydney.

BMNH—Natural History Museum, London., U.K.

CAS—California Academy of Sciences, San Francisco, U.S.A.

LUNZ—Entomology Research Museum, Lincoln University, Lincoln, New Zealand.

MACN—Museo Argentino de Ciencias Naturales “Bernardino Rivadavia”, Buenos Aires, Argentina.

MONZ—Museum of New Zealand Te Papa Tongarewa, Wellington.

NZAC—New Zealand Arthropod Collection, Auckland.

SAMA—South Australian Museum, Adelaide.

Checklist of New Zealand Heteroptera

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Oncacontias vittatus (Fabricius, 1781)—Endemic [p. 41]

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Rhopalimorpha (*Lentimorpha*) *alpina* Woodward, 1953—Endemic [p. 42]

Rhopalimorpha (*Rhopalimorpha*) Dallas, 1851—Native [p. 42]

Rhopalimorpha (*Rhopalimorpha*) *lineolaris* Pendergrast, 1950—Endemic [p. 42]

Rhopalimorpha (*Rhopalimorpha*) *obscura* White, 1851—Endemic [p. 43]

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Maoristolus parvulus Woodward, 1956—Endemic [p. 43]

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Xylocoris (*Proxylocoris*) *galactinus* (Fieber, 1836)—Adventive [p. 47]

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Lyctocorini

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Aneuraptera cimiciformis Usinger & Matsuda, 1959—Endemic [p. 48]

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Carventaptera spinifera Usinger & Matsuda, 1959—Endemic [p. 52]

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Clavaptera ornata Kirman, 1985—Endemic [p. 52]

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Leuraptera yakasi Heiss, 1990—Endemic [p. 52]

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Lissaptera completa (Usinger & Matsuda, 1959)—Endemic [p. 53]

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Neocarventus angulatus Usinger & Matsuda, 1959—Endemic [p. 53]

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Chinamyersiini

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Tretocoris grandis Usinger & Matsuda, 1959—Endemic [p. 54]

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Isodermus tenuicornis Usinger & Matsuda, 1959—Endemic [p. 55]

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Prosympiestini

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Neadenocoris spinicornis Usinger & Matsuda, 1959—Endemic [p. 58]

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Cimex lectularius Linnaeus, 1758—Adventive [p. 63]

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Coreinae

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Acantholybas Breddin, 1899—Adventive [p. 64]

Acantholybas brunneus (Breddin, 1900)—Adventive [p. 64]

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Corixinae

Corixini

Agraptocorixa Kirkaldy, 1898—Adventive

Agraptocorixa Kirkaldy, 1898: 144; as subgenus of *Corixa* Geoffroy, 1762. Type species: *Corixa* (*Agraptocorixa*) *gestroi* Kirkaldy, 1898, by original designation.

Porocorixa Hale, 1922: 318; as subgenus of *Corixa* Geoffroy, 1762. Type species: *Corixa eurynome* Kirkaldy, 1897, by original designation. Synonymised by Lundblad, 1929: 2.

Agraptocorixa hirtifrons (Hale, 1922)—Adventive

Corixa (*Porocorixa*) *hirtifrons* Hale, 1922: 321. Lectotype male (designated by Knowles, 1974; SAMA); Australia, SA, Cooper Creek.

Agraptocorixa hirtifrons: Lundblad, 1929: 9.

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Sigara (*Tropocorixa*) *arguta* (White, 1878)—Endemic [p. 65]

Sigara (*Tropocorixa*) *infrequens* Young, 1962—Endemic [p. 65]

Sigara (*Tropocorixa*) *potamius* Young, 1962—Endemic [p. 65]

Sigara limnocharis Young, 1962—Endemic [p. 65]. Synonymised by Buckley & Young, 2008: 47.

Sigara (*Tropocorixa*) *uruana* Young, 1962—Endemic [p. 66]

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Cydnini

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Microporus thoreyi (Signoret, 1882)—Adventive [p. 68]

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- Halobates* (*Halobates*) Eschscholtz, 1822—Native [p. 71]
Halobates (*Halobates*) *sericeus* Eschscholtz, 1822—Native [p. 71]

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- Heterogaster* Schilling, 1829—Adventive [p. 72]
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- Hydrometra* Latreille, 1796—Native [p. 73]
Hydrometra strigosa (Skuse, 1893)—Native [p. 73]

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Arocatus rusticus (Stal, 1867)—Adventive [p. 74]

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Lepiorsillus tekapoensis Malipatil, 1979—Endemic [p. 74]

Nysius Dallas, 1852—Native [p. 74]

Nysius caledoniae Distant, 1920—Adventive

Nysius caledoniae Distant, 1920: 151. Holotype male (BMNH); Central New Caledonia.

Nysius villicus Van Duzee, 1940: 182. Holotype male (CAS); Solomon Islands, Malaita Island, Tal Lagoon. Synonymised by Malipatil 2010: 36.

Nysius clevelandensis Evans, 1929: 351. Holotype male (BMNH); Australia, QLD, Cleveland. Synonymised by Malipatil 2010: 35.

Nysius dissimilis Izzard, 1936: 581. Holotype male (BMNH): [Australian Territory of] Christmas Island. Synonymised by Malipatil 2010: 36.

Nysius (Nysius) pacificus China, 1930: 116. Holotype female (BMNH); New Hebrides [=Vanuatu], Efate Island, Havannah Harbour. Synonymised by Malipatil 2010: 35.

Nysius turneri Evans, 1936: 673. Holotype female (Tasmanian DPI [Department of Primary Industries], Hobart); Australia, TAS, Launceston. Synonymised by Malipatil 2010: 35.

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Rhyphodes brachypterus Eyles, 1990—Endemic [p. 76]

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Rhyphodes crinitus Eyles, 1990—Endemic [p. 78]

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Rhyphodes longirostris Eyles, 1990—Endemic [p. 80]

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Rhyphodes sericatus Usinger, 1942—Endemic [p. 81]

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Poecilomiris Eyles, 2006: 28. Type species: *Poecilomiris planus* Eyles, 2006, by original designation.

Poecilomiris longirostris Eyles, 2006—Endemic
Poecilomiris longirostris Eyles, 2006: 32. Holotype female (NZAC): CL, The Alderman Is, Ruamahua I.

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Poecilomiris planus Eyles, 2006: 31. Holotype male (NZAC): TO, Kaimanawa North Forest Park.

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Romna pallescens Eyles, 2006: 34. Holotype male (NZAC): MC, Banks Peninsula, Kaituna Valley Scenic Reserve.

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Maoriphylina Cassis & Eyles, 2006: 43. Type species: *Maoriphylina dimorpha* Cassis & Eyles, 2006, by original designation.

Maoriphylina dimorpha Cassis & Eyles, 2006—Endemic

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Bipuncticoris vescus Eyles & Carvalho, 1995—Endemic [p. 90]

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Chinamiris dracophylloides Eyles & Carvalho, 1991—Endemic [p. 91]

Chinamiris elongatus Eyles & Carvalho, 1991—Endemic [p. 92]

Chinamiris fascinans Eyles & Carvalho, 1991—Endemic [p. 92]

Chinamiris guttatus Eyles & Carvalho, 1991—Endemic [p. 92]

Chinamiris hamus Eyles & Carvalho, 1991—Endemic [p. 92]

Chinamiris indeclivis Eyles & Carvalho, 1991—Endemic [p. 92]

Chinamiris juvans Eyles & Carvalho, 1991—Endemic [p. 93]

Chinamiris laticinctus (Walker, 1873)—Endemic [p. 93]

Chinamiris marmoratus Eyles & Carvalho, 1991—Endemic [p. 93]

Chinamiris minutus Eyles & Carvalho, 1991—Endemic [p. 93]

Chinamiris muehlenbeckiae Woodward, 1950—Endemic [p. 93]

Chinamiris niculatus Eyles & Carvalho, 1991—Endemic [p. 94]

Chinamiris nigrifrons Eyles & Carvalho, 1991—Endemic [p. 94]

Chinamiris opacus Eyles & Carvalho, 1991—Endemic [p. 94]

Chinamiris ovatus Eyles & Carvalho, 1991—Endemic [p. 94]

Chinamiris punctatus Eyles & Carvalho, 1991—Endemic [p. 94]

Chinamiris quadratus Eyles & Carvalho, 1991—Endemic [p. 94]

- Chinamiris rufescens* Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris secundus Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris testaceus Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris unicolor Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris virescens Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris viridicans Eyles & Carvalho, 1991—Endemic [p. 95]
Chinamiris whakapapae Eyles & Carvalho, 1991—Endemic [p. 96]
Chinamiris zygopus Eyles & Carvalho, 1991—Endemic [p. 96]
- Closterotomus* Fieber, 1858—Adventive [p. 96]
Closterotomus norwegicus (Gmelin, 1790)—Adventive [p. 96]
- Diomocoris* Eyles, 2000—Endemic [p. 97]
Diomocoris fasciatus Eyles, 2000—Endemic [p. 97]
Diomocoris granosus Eyles, 2000—Endemic [p. 97]
Diomocoris maoricus (Walker, 1873)—Endemic [p. 98]
Diomocoris ostiolum Eyles, 2000—Endemic [p. 98]
Diomocoris punctatus Eyles, 2000—Endemic [p. 98]
Diomocoris raoulensis Eyles, 2000—Endemic [p. 98]
Diomocoris russatus Eyles, 2000—Endemic [p. 98]
Diomocoris sexcoloratus Eyles, 2000—Endemic [p. 99]
Diomocoris woodwardi Eyles, 2000—Endemic [p. 99]
- Kiwimiris* Eyles & Carvalho, 1995—Endemic [p. 99]
Kiwimiris bipunctatus Eyles & Carvalho, 1995—Endemic [p. 99]
Kiwimiris coloratus Eyles & Carvalho, 1995—Endemic [p. 99]
Kiwimiris concavus Eyles & Carvalho, 1995—Endemic [p. 99]
Kiwimiris melanocerus Eyles & Carvalho, 1995—Endemic [p. 99]
Kiwimiris niger Eyles & Carvalho, 1995—Endemic [p. 100]
- Lincolnia* Eyles & Carvalho, 1988—Endemic [p. 100]
Lincolnia lucernina Eyles & Carvalho, 1988—Endemic [p. 100]
- Monopharsus* Eyles & Carvalho, 1995—Endemic [p. 100]
Monopharsus annulatus Eyles & Carvalho, 1995—Endemic [p. 100]
- Sidnia* Reuter, 1905—Adventive [p. 101]
Sidnia kinbergi (Stål, 1859)—Adventive [p. 101]
- Stenotus* Jakovlev, 1877—Adventive [p. 101]
Stenotus binotatus (Fabricius, 1794)—Adventive [p. 102]
- Taylorilygus* Leston, 1952—Adventive [p. 102]
Taylorilygus apicalis (Fieber, 1861)—Adventive [p. 102]
- Tingidotum* Kirkaldy, 1902—Native [p. 102]
Tingidotum minutum Eyles, 2000—Native [p. 103]
- Tuicoris* Eyles & Carvalho, 1995—Endemic [p. 103]
Tuicoris excelsus Eyles & Carvalho, 1995—Endemic [p. 103]
Tuicoris lipurus Eyles, 2001—Endemic [p. 103]
- Wekamiris* Eyles & Carvalho, 1995—Endemic [p. 103]
Wekamiris auropilosus Eyles & Carvalho, 1995—Endemic [p. 103]

Stenodemini

Chaetodus Eyles, 1975—Native [p. 104]

Chaetodus longiceps Eyles, 1975—Native [p. 104]

Chaetodus plumalis Eyles, 1975—Native [p. 104]

Chaetodus reuterianus (White, 1878)—Endemic [p. 104]

Megaloceroea Fieber, 1858—Adventive [p. 104]

Megaloceroea recticornis (Geoffroy, 1785)—Adventive [p. 104]

Trigonotylus Fieber, 1858—Adventive [p. 105]

Trigonotylus tenuis Reuter, 1893—Adventive [p. 105]

Orthotylinae

Coridromiini

Coridromius Signoret, 1862—Adventive [p. 105, under Halticini]

Coridromius chenopoderis Tatarnic & Cassis, 2008—Adventive

Coridromius chenopoderis Tatarnic & Cassis, 2008: 35. Holotype male (AM); Australia, Western Australia, 13.2 km N of jct of Agana Kalbarri Rd and Brand Hiway, Galena River Bridge.

Note: The records of *Coridromius variegatus* (Montrouzier, 1861) from Larivière & Larochelle (2004: 105) and from the New Zealand literature pre-dating 2008 refer to *C. chenopoderis*.

Halticini

Halticus Hahn, 1832—Adventive [p. 106]

Halticus minutus Reuter, 1885—Adventive [p. 106]

Orthotylini

Cyrtorhinus Fieber, 1858—Native [p. 106]

Cyrtorhinus cumberi Woodward, 1950—Endemic [p. 106]

Josemiris Eyles, 1996—Endemic [p. 106]

Josemiris carvalhoi Eyles, 1996—Endemic [p. 107]

Tridiplous Eyles, 2005—Endemic

Tridiplous Eyles, 2005: 194. Type species: *Tridiplous virens* Eyles, 2005, by original designation.

Tridiplous burrus Eyles, 2005—Endemic

Tridiplous burrus Eyles, 2005: 195. Holotype male (NZAC); WN, Mana Island, top edge of Forest Valley.

Tridiplous parvapiatus Eyles, 2005—Endemic

Tridiplous parvapiatus Eyles, 2005: 197. Holotype male (NZAC); WN, Wellington Botanical Gardens.

Tridiplous penmani Eyles, 2005—Endemic

Tridiplous penmani Eyles, 2005: 200. Holotype male (LUNZ); NN, Farewell Spit, Fossil Point.

Tridiplous virens Eyles, 2005—Endemic

Tridiplous virens Eyles, 2005: 204. Holotype male (NZAC); ND, Te Paki Trig Track, Kauri Bush.

Zanchius Distant, 1904—Native

Zanchius Distant, 1904: 477. Type species: *Zanchius annulatus* Distant, 1904, by original designation.

Zanchius ater Eyles, 2005—Endemic

Zanchius ater Eyles, 2005: 204. Holotype male (NZAC); ND, Karikari Peninsula, Matai Bay.

Zanchius rubicrux Eyles, 2005—Endemic

- Zanchius rubicrux* Eyles, 2005: 206. Holotype male (NZAC); TO, Kaimanawa Rd.
Zanchius totus Eyles, 2005—Endemic
Zanchius totus Eyles, 2005: 206. Holotype male (NZAC); TH, Three Kings Islands, Great Island,
Castaway Camp.

Phylinae
Cremnorrhini

- Lopus* Hahn, 1833—Adventive [p. 109, under Phylini]
Lopus decolor (Fallén, 1807)—Adventive [p. 109]

Leucophoropterini

- Ausejanus* Menard & Schuh, 2011—Native [p. 107, as *Sejanus*]
Ausejanus albisignatus (Knight, 1938)—Native [p. 107, as *Sejanus albisignatus*]

Nasocorini

- Campylomma* Reuter, 1878—Adventive [p. 108, under Phylini]
Campylomma novocaledonica Schuh, 1984—Adventive [p. 108]

Semiini

- Basileobius* Eyles & Schuh, 2003—Endemic [p. 108, under Phylini]
Basileobius gilviceps Eyles & Schuh, 2003—Endemic [p. 108]
- Cyrtodiridius* Eyles & Schuh, 2003—Endemic [p. 109, under Phylini]
Cyrtodiridius aurantiacus Eyles & Schuh, 2003—Endemic [p. 109]
- Halormus* Eyles & Schuh, 2003—Endemic [p. 109, under Phylini]
Halormus velifer Eyles & Schuh, 2003—Endemic [p. 109]
- Mecenopa* Eyles & Schuh, 2003—Endemic [p. 110, under Phylini]
Mecenopa albiapex Eyles & Schuh, 2003—Endemic [p. 110]
- Monospatha* Eyles & Schuh, 2003—Endemic [p. 110, under Phylini]
Monospatha distincta Eyles & Schuh, 2003—Endemic [p. 110]
- Pimeleocoris* Eyles & Schuh, 2003—Endemic [p. 110, under Phylini]
Pimeleocoris luteus Eyles & Schuh, 2003—Endemic [p. 110]
Pimeleocoris roseus Eyles & Schuh, 2003—Endemic [p. 111]
Pimeleocoris viridis Eyles & Schuh, 2003—Endemic [p. 111]
- Polyozus* Eyles & Schuh, 2003—Adventive [p. 111, under Phylini]
Polyozus galbanus Eyles & Schuh, 2003—Adventive [p. 111]
- Tytthus* Fieber, 1864—Adventive [p. 108, under Leucophoropterini]
Tytthus chinensis (Stål, 1859)—Adventive [p. 108]
- Xiphoides* Eyles & Schuh, 2003—Endemic [p. 111, under Phylini]
Xiphoides badius Eyles & Schuh, 2003—Endemic [p. 111]
Xiphoides luteolus Eyles & Schuh, 2003—Endemic [p. 112]
Xiphoides multicolor Eyles & Schuh, 2003—Endemic [p. 112]
Xiphoides myersi (Woodward, 1950)—Endemic [p. 112]
Xiphoides regis Eyles & Schuh, 2003—Endemic [p. 112]
Xiphoides vacans Eyles & Schuh, 2003—Endemic [p. 112]

NABIDAE

Nabinae

Nabini

- Nabis (Australonabis)* Strommer, 1988—Native [p. 113]
Nabis (Australonabis) biformis (Bergroth, 1927)—Native [p. 113]
- Nabis (Tropiconabis)* Kerzhner, 1968—Native [p. 113]
Nabis (Tropiconabis) kinbergii Reuter, 1872—Adventive [p. 113]
Nabis (Tropiconabis) maoricus Walker, 1873—Endemic [p. 114]

Prostemmatinae

Prostemmatini

- Alloeorhynchus (Alloeorhynchus)* Fieber, 1860—Native [p. 114]
Alloeorhynchus (Alloeorhynchus) myersi Bergroth, 1927—Endemic [p. 114]

NOTONECTIDAE

Anisopinae

- Anisops* Spinola, 1837—Native [p. 114]
Anisops assimilis White, 1878—Endemic [p. 115]
Anisops wakefieldi White, 1878—Endemic [p. 115]

PENTATOMIDAE

Asopinae

- Cermatulus* Dallas, 1851—Native [p. 115]
Cermatulus nasalis hudsoni Woodward, 1953—Endemic [p. 116]
Cermatulus nasalis nasalis (Westwood, 1837)—Native [p. 116]
Cermatulus nasalis turbotti Woodward, 1950—Endemic [p. 116]
- Oechalia* Stål, 1862—Native [p. 116]
Oechalia schellenbergii (Guérin, 1831)—Native [p. 117]

Pentatominae

Carpocorini

- Monteithiella* Gross, 1976—Adventive [p. 117]
Monteithiella humeralis (Walker, 1868)—Adventive [p. 117]

Myrocheini

- Dictyotus* Dallas, 1851—Adventive [p. 118]
Dictyotus caenosus (Westwood, 1837)—Adventive [p. 118]

Nezarini

- Glaucias* Kirkaldy, 1908—Native [p. 118]
Glaucias amyoti (Dallas, 1851)—Native [p. 118]
- Nezara* Amyot & Audinet-Serville, 1843—Adventive [p. 119]
Nezara viridula (Linnaeus, 1758)—Adventive [p. 119]

Rhynchocorini

- Cuspicona* Dallas, 1851—Adventive [p. 119]
Cuspicona simplex Walker, 1867—Adventive [p. 120]

Tribe (Uncertain)

- Hypsithocus* Bergroth, 1927—Endemic [p. 120]
Hypsithocus hudsonae Bergroth, 1927—Endemic [p. 120]

REDUVIIDAE

Emesinae

Emesini

Stenolemus Signoret, 1858—Adventive [p. 121]

Stenolemus fraterculus Wygodzinsky, 1956—Adventive [p. 121]

Leistarchini

Ploiaria Scopoli, 1786—Native [p. 121]

Ploiaria antipodum Bergroth, 1927—Endemic [p. 121]

Ploiaria chilensis (Philippi, 1862)—Native [p. 122]

Ploiariolini

Empicoris Wolff, 1811—Native [p. 122]

Empicoris aculeatus (Bergroth, 1927)—Endemic [p. 122]

Empicoris angulipennis (Bergroth, 1927)—Endemic [p. 122]

Empicoris rubromaculatus (Blackburn, 1889)—Native [p. 122]

Empicoris seorsus (Bergroth, 1927)—Endemic [p. 123]

RHYPAROCHROMIDAE

Plinthisinae

Plinthisini

Plinthisus (Locutius) Distant, 1918—Adventive [p. 124]

Plinthisus (Locutius) woodwardi Slater & Sweet, 1977—Adventive [p. 124]

Rhyparochrominae

Antillocorini

Tomocoris Woodward, 1953—Native [p. 124]

Tomocoris ornatus (Woodward, 1953)—Endemic [p. 125]

Tomocoris truncatus Woodward, 1953—Endemic [p. 125]

Drymini

Brentiscerus Scudder, 1962—Native [p. 125]

Brentiscerus putoni (White, 1878)—Endemic [p. 125]

Grossander Slater, 1976—Adventive [p. 125]

Grossander major (Gross, 1965)—Adventive [p. 126]

Paradrymus Bergroth, 1916—Adventive [p. 126]

Paradrymus exilirostris Bergroth, 1916—Adventive [p. 126]

Lethaeini

Paramyocara Woodward & Malipatil, 1977—Native [p. 126]

Paramyocara iridescens Woodward & Malipatil, 1977—Native [p. 126]

Myodochini

Horridipamera Malipatil, 1978—Adventive [p. 127]

Horridipamera robusta Malipatil, 1978—Adventive [p. 127]

Remaudiereana Hoberlandt, 1954—Native [p. 127]

Remaudiereana inornata (Walker, 1872)—Native [p. 127]

Remaudiereana nigriceps (Dallas, 1852)—Native [p. 128]

Rhyparochromini

- Dieuches* Dohrn, 1860—Adventive [p. 128]
Dieuches notatus (Dallas, 1852)—Adventive [p. 129]

- Stizocephalus* Eyles, 1970—Native [p. 129]
Stizocephalus brevirostris Eyles, 1970—Native [p. 129]

Stygnocorini

- Margareta* White, 1878—Endemic [p. 129]
Margareta dominica White, 1878—Endemic [p. 129]

Targaremini

- Forsterocoris* Woodward, 1953—Endemic [p. 130]
Forsterocoris bisinuatus Woodward, 1953—Endemic [p. 130]
Forsterocoris salmoni (Woodward, 1953)—Endemic [p. 130]
Forsterocoris sinuatus Woodward, 1953—Endemic [p. 130]
Forsterocoris stewartensis Malipatil, 1977—Endemic [p. 130]

- Geratarma* Malipatil, 1977—Native [p. 131]
Geratarma eylesi Malipatil, 1977—Endemic [p. 131]
Geratarma manapourensis Malipatil, 1977—Endemic [p. 131]

- Metagerra* White, 1878—Endemic [p. 131]
Metagerra angusta Eyles, 1967—Endemic [p. 131]
Metagerra helmsi (Reuter, 1890)—Endemic [p. 131]
Metagerra kaikourica Eyles, 1967—Endemic [p. 132]
Metagerra obscura White, 1878—Endemic [p. 132]
Metagerra truncata Malipatil, 1976—Endemic [p. 132]

- Millerocoris* Eyles, 1967—Endemic [p. 133]
Millerocoris conus (Eyles, 1967)—Endemic [p. 133]
Millerocoris ductus Eyles, 1967—Endemic [p. 133]

- Paratruncala* Malipatil, 1977—Endemic [p. 133]
Paratruncala insularis (Woodward, 1953)—Endemic [p. 133]

- Regatarma* Woodward, 1953—Endemic [p. 133]
Regatarma forsteri Woodward, 1953—Endemic [p. 134]

- Targarema* White, 1878—Endemic [p. 134]
Targarema electa White, 1878—Endemic [p. 134]
Targarema stali White, 1878—Endemic [p. 134]

- Truncala* Woodward, 1953—Endemic [p. 135]
Truncala hirsuta Woodward, 1953—Endemic [p. 135]
Truncala hirta Woodward, 1953—Endemic [p. 135]
Truncala insularis Malipatil, 1977—Endemic [p. 135]
Truncala sulcata Woodward, 1953—Endemic [p. 135]

- Trypetocoris* Woodward, 1953—Endemic [p. 136]
Trypetocoris aucklandensis Woodward, 1953—Endemic [p. 136]
Trypetocoris rudis Woodward, 1953—Endemic [p. 136]
Trypetocoris separatus Woodward, 1953—Endemic [p. 136]

- Woodwardiana* Malipatil, 1977—Endemic [p. 136]
Woodwardiana evagorata (Woodward, 1953)—Endemic [p. 136]
Woodwardiana nelsonensis (Woodward, 1953)—Endemic [p. 137]
Woodwardiana notialis (Woodward, 1953)—Endemic [p. 137]
Woodwardiana paparia Malipatil, 1977—Endemic [p. 137]

Udeocorini

- Udeocoris* Bergroth, 1918—Native [p. 137]
Udeocoris levis Eyles, 1971—Endemic [p. 137]

SALDIDAE

Saldinae

Saldoidini

- Saldula* Van Duzee, 1914—Native [p. 138]
Saldula australis (White, 1876)—Endemic [p. 138]
Saldula butleri (White, 1878)—Endemic [p. 138]
Saldula laelaps (White, 1878)—Endemic [p. 138]
Saldula maculipennis Cobben, 1961—Endemic [p. 139]
Saldula parvula Cobben, 1961—Endemic [p. 139]
Saldula stoneri Drake & Hoberlandt, 1950—Endemic [p. 139]
Saldula trivialis Cobben, 1961—Endemic [p. 139]

SCHIZOPTERIDAE

Hypselosomatinae

- Hypselosoma* Reuter, 1891—Native [p. 139]
Hypselosoma acantheen Hill, 1991—Endemic [p. 140]

TINGIDAE

Cantacaderinae

- Carldrakeana* Froeschner, 1968—Native [p. 60, under Cantacaderidae, Carldrakeaninae]
Carldrakeana socia (Drake & Ruhoff, 1961)—Native [p. 60]

- Cyperobia* Bergroth, 1927—Endemic [p. 60, under Cantacaderidae, Carldrakeaninae]
Cyperobia carectorum Bergroth, 1927—Endemic [p. 61]

Tinginae

- Stephanitis* (*Stephanitis*) Stål, 1873—Adventive [p. 140]
Stephanitis (*Stephanitis*) *rhododendri* Horváth, 1905—Adventive [p. 140]

- Tanybyrsa* Drake, 1942—Native [p. 140]
Tanybyrsa cumberi Drake, 1959—Endemic [p. 141]

VELIIDAE

Microveliinae

- Microvelia* (*Pacificovelina*) Andersen & Weir, 2003—Native [p. 141]
Microvelia (*Pacificovelina*) *macgregori* (Kirkaldy, 1899)—Endemic [p. 141]

List of changes

The changes made to the 2004 catalogue are listed below. Valid names are italicised. Synonyms are indicated between square brackets ([]). Referrals, following the word (see), are to valid names.

Anthocoridae

- Anthocorini: *Macrotrachelia nigronitens* (Stål, 1860), presence in New Zealand confirmed
- Cardiastethini, tribe redescribed and name reinstated for taxa previously under Dufouriellini (except *Dufouriellus*, transferred to Anthocorini) (Carpintero & Dellapé 2008)

Corixidae

- Agraptocorixa* Kirkaldy, 1898, first record for New Zealand (Young 2010)
- Agraptocorixa hirtifrons* (Hale, 1922), first record for New Zealand (Young 2010)
- [*Sigara* (*Tropocorixa*) *limnochares* Young, 1962, see *Sigara* (*Tropocorixa*) *potamius* Young, 1962] new synonym (Buckley & Young 2008)

[Cantacaderidae]

- Subfamily status (Tingidae: Cantacaderinae) re-instated (Schuh *et al.* 2006)

Lygaeidae

- Nysius caledoniae* Distant, 1920, first record for New Zealand (Eyles & Malipatil 2010)

Miridae

- Ausejanus* Menard & Schuh, 2011
- Ausejanus albisignatus* (Knight, 1938) new combination (Menard & Schuh 2011)
- Basileobius* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Campylomma* Reuter, 1878, as Phylinae Nasocorini (Schuh & Menard 2013)
- Coridromius* Signoret, 1862, as Orthotylinae Coridromiini (Tatarnic & Cassis 2008)
- Coridromius variegatus* (Montrouzier, 1861), deleted from the New Zealand fauna (Tatarnic & Cassis 2008)
- Coridromius chenopoderis* Tatarnic & Cassis, 2008 (replaces all previous New Zealand records of *Coridromius variegatus*)
- Cyrtodiridius* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Halormus* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Lopus* Hahn, 1833, as Phylinae Cremnorrhini (Schuh & Menard 2013)
- Maoriphylina* Cassis & Eyles, 2006
- Maoriphylina dimorpha* Cassis & Eyles, 2006
- Mecenopa* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Monospatha* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Peritropis* Uhler, 1891, as Cylapinae Fulviini (Gorczyca 2006)
- Peritropis aotearoae* Gorczyca & Eyles, 1997, as Cylapinae Fulviini (Gorczyca 2006)
- Pimeleocoris* Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
- Poecilomiris* Eyles, 2006
- Poecilomiris longirostris* Eyles, 2006
- Poecilomiris planus* Eyles, 2006
- Polyozus* Eyles & Schuh, 2003, New Zealand biostatus revised from endemic to adventive (Weirauch 2007); as Phylinae Semiini (Schuh & Menard 2013).
- Polyozus galbanus* Eyles & Schuh, 2003, New Zealand biotatus revised from endemic to adventive(Weirauch 2007); as Phylinae Semiini (Schuh & Menard 2013)
- Romna pallescens* Eyles 2006
- Romna rubisura* Eyles 2006
- [*Sejanus albisignatus* (Knight, 1938), see *Ausejanus albisignatus* (Knight, 1938)]
- Termatophylini, first record for New Zealand (Cassis & Eyles 2006)

Tridiplous Eyles, 2005
Tridiplous burrus Eyles, 2005
Tridiplous parvapiatus Eyles, 2005
Tridiplous penmani Eyles, 2005
Tridiplous virens Eyles, 2005
Tytthus Fieber, 1864, as Phylinae Semiini (Schuh & Menard 2013)
Xiphoides Eyles & Schuh, 2003, as Phylinae Semiini (Schuh & Menard 2013)
Zanchius Distant, 1904, first New Zealand record (Eyles 2005)
Zanchius ater Eyles, 2005
Zanchius rubicrux Eyles, 2005
Zanchius totus Eyles, 2005

Tingidae

Carldrakeana Froeschner, 1968, reinstated status as Tingidae Cantacaderinae
Cyperobia Bergroth, 1927, reinstated status as Tingidae Cantacaderinae

Veliidae

Microvelia (Pacificovelia) Andersen & Weir, 2003

Additional remarks

Anthocoridae

Anthocorini: *Macrotrachelia nigronitens* (Stål, 1860). The grey literature suggests that this species is present in New Zealand since at least 2006. This can now be confirmed based on comparison between specimens from NZAC and MACN.

Lygaeidae, Orsillinae

As in the 2004 catalogue the *Lygaeoidea* classification of Henry (1997) continues to be used. This classification is based on a cladistic analysis of world taxa in which, among all the groups, the Lygaeidae with Lygaeinae, Ischnorhynchinae, and Orsillinae, formed one of the best supported monophyletic groups. Henry's study on *Lygaeoidea* classification is the most comprehensive and widely followed—see also Henry (2009) and Schaefer (2009). Therefore the subfamily status of Orsillinae within Lygaeidae is maintained for the New Zealand fauna despite a handful of relatively recent papers having afforded family status to the Orsillinae, citing a publication by Sweet (2000) to support this view. Sweet's chapter in Schaefer & Panizzi (2000) provided an overview of seed and chinch bugs of economic importance, covering their distribution, biology, damage and control, and following a taxonomic arrangement reflecting some of his view on *Lygaeoidea* classification. Sweet's publication, however, does not constitute a newly proposed classification and, as indicated by the author himself, his long standing work on family concepts within this superfamily has not yet to be published and awaits the addition of molecular data to substantiate his proposal.

Nysius huttoni. This endemic species has been introduced into the Netherlands (2002), United Kingdom (2007) and Belgium (2008), presumably via the exportation of orchard fruits such as apples and kiwi fruits from New Zealand (Aukema *et al.* 2005; Cuming 2008; Bonte *et al.* 2010).

Miridae

Macrolophus pygmaeus (Rambur, 1839) is not included in the list above. Eyles *et al.* (2008) recorded this adventive species in the Auckland but Flynn *et al.* (2010) explained that this occurrence was the result of a deliberate and illegal introduction by a bio-control company, that all known stocks held by the industry had been destroyed, and that no new specimens had been recovered in the field. It remains uncertain although it is unlikely that this species has become established in New Zealand.

Phylinae. Genera known from New Zealand and previously placed in the tribe Phylini were reassigned to the tribes Crennorrhini, Nasocorini, Semiini by Schuh & Menard (2013).

Tingidae

Cantacaderinae. Lis (1999) argued family status for the Cantacaderinae. This position was followed by Larivière & Laroche (2004) but Schuh et al. (2006) demonstrated convincingly that Cantacaderinae is a subfamily of Tingidae.

Gargaphia decoris Drake, 1931, is not included in the list above. In upcoming years detailed follow-up investigations should indicate whether naturally reproducing populations of this adventive species, deliberately introduced and released as a biological control agent of woolly nightshade in 2010, have become established in New Zealand (Hayes 2012).

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