



## World Saldidae: Supplement (1987–2018) to the catalog and bibliography of the Leptopodomorpha (Heteroptera)

MARIE-CLAUDE LARIVIÈRE & ANDRÉ LAROCHELLE

*New Zealand Arthropod Collection, Landcare Research, Private Bag 92170, Auckland 1142, New Zealand.*

*Email: LariviereM@landcareresearch.co.nz; LarochelleAndre@hotmail.com*

### Abstract

A supplement to the Saldidae section of the “Catalog and bibliography of the Leptopodomorpha (Heteroptera)” published by Schuh, Galil and Polhemus (1987: Bull. Amer. Mus. Nat. Hist. 323), is provided. A total of 30 genera and 307 species-group taxa (298 species, 9 subspecies) belonging to 3 tribes and 2 subfamilies of extant Saldidae, is recorded for the world. Changes to the 1987 catalogue are documented. The synonymy and type locality of taxa described between 1987 and 2018 are given. Under each genus, species, and subspecies, geographic distribution is broadly categorised following the terrestrial zoogeographic realms of Holt *et al.* (2013: Science 339). A summary of the geographic distribution of Saldidae genera is provided as well as faunistic lists of species-group taxa by zoogeographic realms.

**Key words:** catalogue, shore bugs, taxonomy, nomenclature, biodiversity

### Introduction

This supplement provides an update, with additions and corrections, to the Saldidae section of the Catalogue and bibliography of the Leptopodomorpha published by Schuh *et al.* (1987). The known world fauna of extant Saldidae (Table 1) comprises 2 subfamilies, 3 tribes, 30 genera and 307 species-group taxa (298 species, 9 subspecies).

The 1987 catalogue recorded 22 genera and 256 species and subspecies of extant Saldidae. This was the first catalogue published on world Saldidae after the checklist of Drake & Hoberlandt (1951). It included valid names and detailed synonymies based on about 650 references published between 1758 and 1986, and it remains one of the most comprehensive and invaluable information resources for students of shore bugs.

Between 1987 and 2018, several taxonomic revisions or faunal reviews have been published, many synonymies and other taxonomic changes have been made, and several new taxa have been described (8 genera, 59 species and subspecies). All in all, nearly 30% of names included in the present paper are the direct result of taxonomic changes made since 1987.

### Method

This supplement is based on a review of the literature, including the Zoological Record and ZooBank, from 1986 to November 2018. The higher classification used follows Schuh & Slater (1995).

Valid names are arranged alphabetically from family to species and subspecies. The type species of genera are indicated by an asterisk (\*). Taxonomic names from the 1987 catalogue are corrected as appropriate and parentheses added around authors' name (and dates) for changed species-group name combinations. Page references to the main taxonomic entries in the 1987 catalogue are indicated between square brackets ([ ]). Synonymical information, type locality data, and taxonomic literature from the 1987 catalogue, are not repeated unless necessary.

**TABLE 1.** Number of species and subspecies within the 30 genera of extant Saldidae.

Supraspecific taxon	Species	Subspecies	Supraspecific taxon	Species	Subspecies
<b>Chiloxantinae</b>					
<i>Chiloxanthus</i>	9	1	<i>Helenasaldula</i>	1	0
<i>Enalosalda</i>	1	0	<i>Ioscytus</i>	7	0
<i>Paralosalda</i>	1	0	<i>Kiwisaldula</i>	12	0
<i>Pentacora</i>	11	0	<i>Macrosaldula</i>	24	1
<b>Saldinae</b>					
<b>Saldini</b>					
<i>Lampracanthia</i>	1	0	<i>Mascarenisalda</i>	1	0
<i>Salda</i>	17	0	<i>Micracanthia</i>	19	0
<i>Teloleuca</i>	5	0	<i>Oiosalda</i>	1	0
<b>Saldoidini</b>					
<i>Aoteasalda</i>	1	0	<i>Orthophrys</i>	1	0
<i>Calacanthia</i>	7	0	<i>Orthosaldula</i>	3	0
<i>Capitonisalda</i>	2	0	<i>Pseudosaldula</i>	15	0
<i>Capitonisaldoida</i>	1	0	<i>Rupisalda</i>	28	0
<i>Chartosaldoida</i>	1	0	<i>Saldoida</i>	5	1
<i>Chartoscirta</i>	6	2	<i>Saldula</i>	102	4
<i>Halosalda</i>	3	0	<i>Sinosalda</i>	1	0
			<i>Zemacrosaldula</i>	4	0
			<b>Saldunculini</b>		
			<i>Salduncula</i>	8	0

The literature supporting taxonomic changes to the 1987 catalogue is included under References. Readers are referred to Schuh *et al.* (1987) for a comprehensive bibliography of papers pre-dating the 1987 catalogue and dealing with Saldidae nomenclature.

Geographic distributions are by the 11 broad-scale terrestrial zoogeographic realms (Fig. 1) of Holt *et al.* (2013)—an update of Wallace’s Zoogeographic s of the world – listed in alphabetical order.



**FIGURE 1.** Map of the terrestrial zoogeographic realms of the world. Credit: Holt *et al.* (2013); dotted lines omitted.

Distributions are based on records from the 1987 catalogue, the literature supporting taxonomic changes since 1987 as well as Aukema *et al.* (2013), Cassis *et al.* (2012), Chen (1987), Chen & Lindskog (1994), Chen & Zheng (1987), Couteyen (2004), Fent *et al.* (2011), Ghahari *et al.* (2013), Hayashi & Miyamoto (2007), Lindskog (1991; 1995), Melo (2009), Miyamoto & Hayashi (1998), Péricart (1990), Polhemus (1988), Polhemus & Polhemus

(1999), Tomokuni (1992), Vinokurov (2006b; 2007; 2010; 2014a), Vinokurov & Kment (2015), Vinokurov *et al.* (2018).

Published records, e.g., country or locality records, were searched and affiliated to terrestrial zoogeographic realms using Google Earth and the GIS map layers developed by Holt *et al.* (2013); available from the website of the Centre for Macroecology, Evolution and Climate, University of Copenhagen (<http://macroecology.ku.dk/resources/wallace>). Country records are given for the Australian and Oceanian realms in order to present a more detailed inventory for the region encompassing Australia, New Zealand, and neighbouring areas of the South Pacific.

The geographic distribution of Saldidae genera is summarised in Table 2 and faunistic lists of species-group taxa by zoogeographic realms are provided in Appendix A.

## Taxonomic supplement

### SALDIDAE [p. 263]

### CHILOXANTHINAE [p. 264]

#### *Chiloxanthus* Reuter, 1891 [p. 265]

Distribution: Nearctic; Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

##### *Chiloxanthus alticola* Kiritschenko, 1931 [p. 265]

Distribution: Saharo-Arabian.

##### *Chiloxanthus arcticus* (Sahlberg, 1878) [p. 265]

Distribution: Palearctic.

##### *Chiloxanthus corporaali* Lindberg, 1935 [p. 265]

Distribution: Palearctic; Sino-Japanese.

##### *Chiloxanthus kozlovi* (Kiritschenko, 1912) [p. 266]

Distribution: Palearctic; Sino-Japanese.

##### *Chiloxanthus lama* (Kiritschenko, 1912) [p. 266]

Distribution: Sino-Japanese.

##### *Chiloxanthus pilosus* (Fallén, 1807)\* [pp. 266–267]

Distribution: Nearctic; Palearctic.

##### *Chiloxanthus poloi* (Kiritschenko, 1912) [p. 267]

Distribution: Palearctic.

##### *Chiloxanthus sangchana* Drake, 1954 [p. 268]

Distribution: Oriental.

##### *Chiloxanthus stellatus stellatus* (Curtis, 1835) [p. 268]

*Chiloxanthus stellatus*: Kerzhner & Vinokurov, 2004: 15 (as *nomen protectum*).

Distribution: Nearctic; Palearctic.

##### *Chiloxanthus stellatus suturalis* (Jakovlev, 1889)

*Chiloxanthus suturalis* (Jakovlev, 1889). [pp. 268–269] Downgraded to subspecies status by Vinokurov, 2005: 57.

Distribution: Palearctic.

#### *Enalosalda* Polhemus, 1969 [p. 269]

Distribution: Nearctic.

##### *Enalosalda mexicana* (Van Duzee, 1923)\* [p. 269]

Distribution: Nearctic.

#### *Paralosalda* Polhemus & Evans, 1969 [p. 269]

Distribution: Panamanian.

##### *Paralosalda innova* Polhemus & Evans, 1969\* [pp. 269–270]

Distribution: Panamanian.

***Pentacora Reuter, 1912*** [p. 270]

Distribution: Australian (Australia); Nearctic; Neotropical; Oceanian (Solomon Islands); Oriental; Palearctic; Panamanian; Saharo-Arabian.

***Pentacora grossi Cobben, 1980*** [p. 270]

Distribution: Australian (Australia).

***Pentacora hirta (Say, 1832)*** [pp. 270–271]

Distribution: Nearctic; Panamanian.

***Pentacora leucographa Rimes, 1951*** [p. 271]

Distribution: Australian (Australia).

***Pentacora ligata (Say, 1832)*** [pp. 271–272]

Distribution: Nearctic.

***Pentacora malayensis (Dover, 1929)*** [p. 272]

Distribution: Oriental.

***Pentacora ouachita Polhemus, 1993***

*Pentacora ouachita* Polhemus, 1993: 455.

Distribution: Nearctic.

***Pentacora salina (Bergroth, 1893)*** [p. 272]

Distribution: Australian (Australia).

***Pentacora saratogae Cobben, 1965*** [p. 272]

Distribution: Nearctic.

***Pentacora signoreti (Guérin-Méneville, 1857)\**** [pp. 272–273]

Distribution: Nearctic; Neotropical; Panamanian.

***Pentacora sonneveldti Blöte, 1947*** [p. 273]

Distribution: Oceanian (Solomon Islands); Oriental.

***Pentacora sphacelata (Uhler, 1877)*** [pp. 273–274]

Distribution: Nearctic; Neotropical; Palearctic; Panamanian; Saharo-Arabian.

**SALDINAE** [p. 274]

**SALDINI** [p. 274]

***Lampracanthia Reuter, 1912*** [p. 275]

Distribution: Nearctic.

***Lampracanthia crassicornis (Uhler, 1877)\**** [p. 275]

Distribution: Nearctic.

***Salda Fabricius, 1803*** [pp. 275–277]

Distribution: Nearctic; Palearctic; Sino-Japanese.

***Salda adriatica (Horváth, 1887)*** [p. 277]

Distribution: Palearctic.

***Salda alta Polhemus, 1967*** [p. 277]

Distribution: Nearctic.

***Salda anthracina Uhler, 1877*** [p. 277]

Distribution: Nearctic.

***Salda buenoi (McDunnough, 1925)*** [p. 278]

Distribution: Nearctic.

***Salda coloradensis Polhemus, 1967*** [p. 278]

Distribution: Nearctic.

***Salda coriacea Uhler, 1872***

*Salda coriacea*: Reinstated as valid name by Froeschner, 1986: 394.

*Salda provancheri* Kelton & Lattin, 1968. [p. 287] Synonymised by Froeschner, 1986: 394.

Distribution: Nearctic.

***Salda exigua* Berendt, 1856** [p. 279]

Distribution: Palearctic.

***Salda henshii* (Reuter, 1891)** [p. 279]

Distribution: Palearctic.

***Salda kiritshenkoi* Cobben, 1985** [p. 280]

Distribution: Palearctic; Sino-Japanese.

***Salda littoralis* (Linnaeus, 1758)\*** [pp. 280–282]

Distribution: Nearctic; Palearctic; Sino-Japanese.

***Salda lugubris* (Say, 1832)** [pp. 282–283]

Distribution: Nearctic.

***Salda micans* Jakovlev, 1889** [pp. 283–284]

Distribution: Palearctic.

***Salda morio* Zetterstedt, 1838** [p. 284]

Distribution: Palearctic; Sino-Japanese.

***Salda muelleri* (Gmelin, 1790)** [pp. 285–286]

Distribution: Palearctic.

***Salda obscura* Provancher, 1872** [p. 286]

Distribution: Nearctic.

***Salda sahlbergi* Reuter, 1875** [p. 288]

Distribution: Nearctic; Palearctic.

***Salda splendens* (Jakovlev, 1905)** [p. 289]

Distribution: Palearctic; Sino-Japanese.

***Teloleuca* Reuter, 1912** [pp. 289–290]

Distribution: Nearctic; Palearctic; Sino-Japanese.

***Teloleuca altaica* Vinokurov, 2009**

*Teloleuca altaica* Vinokurov, 2009: 1197. Holotype male (Zoological Institute, Russian Academy of Sciences, St. Petersburg), Kazakhstan, Eastern Kazakhstan Prov., near Katon-Karagai Vill., Sarymsakty River.

Distribution: Palearctic.

***Teloleuca bifasciata* (Thomson, 1871)** [p. 290]

Distribution: Nearctic; Palearctic.

***Teloleuca branczikii* (Reuter, 1891)** [pp. 290–291]

Distribution: Palearctic.

***Teloleuca kusnezowi* Lindberg, 1934** [p. 291]

Distribution: Palearctic; Sino-Japanese.

***Teloleuca pellucens* (Fabricius, 1779)\*** [pp. 291–292]

Distribution: Nearctic; Palearctic.

## SALDOIDINI [p. 292]

***Aoteasalda* Larivière & Laroche, 2016**

*Aoteasalda* Larivière & Laroche, 2016: 454.

Distribution: Australian (New Zealand).

***Aoteasalda maculipennis* (Cobben, 1961)\***

*Saldula maculipennis* Cobben, 1961: 104. [p. 333]

*Aoteasalda maculipennis*: Larivière & Laroche, 2016: 455.

Distribution: Australian (New Zealand).

***Calacanthia* Reuter, 1891** [p. 293]

Distribution: Nearctic; Palearctic; Sino-Japanese.

***Calacanthia apicola* (Sahlberg, 1880) [p. 293]**

Distribution: Palearctic.

***Calacanthia angulosa* (Kiritshenko, 1912) [p. 293]**

Distribution: Palearctic; Sino-Japanese.

***Calacanthia grandis* Cobben, 1985 [p. 293]**

Distribution: Sino-Japanese.

***Calacanthia josifovi* Vinokurov, 2008**

*Calacanthia josifovi* Vinokurov, 2008: 386. Holotype male (E. Heiss collection, Innsbruck, Austria), China, “Chola Shan” pass, road Yanjing-Markam, 50 km S of Markam.

Distribution: Sino-Japanese.

***Calacanthia sichuanica* Chen & Zheng, 1987**

*Calacanthia sichuanicus* [sic] Chen & Zheng, 1987: 393.

Distribution : Sino-Japanese.

***Calacanthia tibetana* Drake, 1954 [p. 293]**

Distribution: Sino-Japanese.

***Calacanthia trybomi* (Sahlberg, 1878)\* [p. 294]**

Distribution: Nearctic; Palearctic.

***Capitonisalda* Polhemus, 1981 [p. 294]**

Distribution: Afrotropical.

***Capitonisalda aethiopica* (Carlini, 1895) [p. 320; as *Saldula aethiopica*]**

*Salda aethiopica* Carlini, 1895: 119.

*Saldula jihafana* Brown, 1951: 241. [p. 294, as *Capitonisalda jihafana*] Synonymised by Cobben, 1987b: 12.

*Saldula carayoni* Drake, 1956: 431. [p. 294, as *Capitonisalda carayoni*] Synonymised by Cobben, 1987b: 20.

Distribution: Afrotropical.

***Capitonisalda ripa* (Drake, 1961)\* [p. 294]**

*Saldula ripa* Drake, 1961b: 133.

*Saldula actaea* Drake, 1963: 2. [p. 294, as *Capitonisalda actaea*] Synonymised by Cobben, 1987b: 18.

*Capitonisalda actaea*: Polhemus, 1981: 609.

*Capitonisalda ripa*: Polhemus, 1981: 610.

Distribution: Afrotropical.

***Capitonisaldoida* Polhemus & Polhemus, 1991**

*Capitonisaldoida* Polhemus & Polhemus, 1991: 508 Type species: *Capitonisaldoida cryptica* Polhemus & Polhemus, 1991, by original designation.

Distribution: Madagascan.

***Capitonisaldoida cryptica* Polhemus & Polhemus, 1991\***

*Capitonisaldoida cryptica* Polhemus & Polhemus, 1991: 511. Holotype male (USNM), Madagascar, Diego Suarez Prov., Mt D’Ambre, Grande Cascade.

Distribution: Madagascan.

***Chartosaldoida* Cobben, 1987**

*Chartosaldoida* Cobben, 1987b: 6. Type species: *Chartosaldoida miridiformis* Cobben, 1987, by original designation.

Distribution: Afrotropical.

***Chartosaldoida miridiformis* Cobben, 1987\***

*Chartosaldoida miridiformis* Cobben, 1987b: 6. Holotype male (BMNH), Nigeria, Azare.

Distribution: Afrotropical.

***Chartoscirta* Stål, 1868 [pp. 294–299]**

Distribution: Afrotropical; Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Chartoscirta cincta cincta* (Herrich-Schaeffer, 1841) [pp. 295–296]**

*Chartoscirta cincta cincta*: Cobben, 1987b: 5.  
Distribution: Afrotropical; Palearctic; Saharo-Arabian.

***Chartoscirta cincta paracincta* Cobben, 1987**

*Chartoscirta cincta paracincta* Cobben, 1987b: 5.  
Distribution: Afrotropical.

***Chartoscirta cocksii* (Curtis, 1835) [pp. 296–297]**

Distribution: Palearctic; Saharo-Arabian.

***Chartoscirta dilutipennis* (Reuter, 1891) [p. 297]**

Distribution: Palearctic.

***Chartoscirta elegantula elegantula* (Fallén, 1807)\* [pp. 297–299, as *C. elegantula*]**

Distribution: Palearctic; Saharo-Arabian.

***Chartoscirta elegantula longicornis* (Jakovlev, 1882) [p. 298, under *C. elegantula*]**

Distribution: Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Chartoscirta geminata* (Costa, 1853) [p. 299]**

Distribution: Palearctic; Saharo-Arabian.

***Chartoscirta laticeps* Cobben, 1987**

*Chartoscirta laticeps* Cobben, 1987b: 3. Holotype male (Wageningen Collection), Egypt, 50 km N of Ismailia.  
Distribution: Saharo-Arabian.

***Halosalda* Reuter, 1912 [pp. 299–300]**

Distribution: Palearctic; Saharo-Arabian; Sino-Japanese.

***Halosalda coracina* Cobben, 1985 [p. 300]**

Distribution: Palearctic.

***Halosalda halophila* (Jakovlev, 1876)**

*Salda halophila* Jakovlev, 1876: 229. [p. 301, as a junior synonym of *Halosalda lateralis*]

*Salda lateralis concolor* Puton, 1880: 203. [p. 300, as *Halosalda concolor*] Synonymised by Vinokurov, 2014b: 653.

*Halosalda halophila*: Synonymised with *Salda lateralis* by Puton, 1875: 48; resurrected from synonymy by Vinokurov, 2014b: 653.

*Halosalda minuta* Vinokurov, Luo & Lü, 2012: 53. Synonymised by Vinokurov, 2014b: 653.

Distribution: Palearctic; Saharo-Arabian.

***Halosalda lateralis* (Fallén, 1807)\* [pp. 300–302]**

Distribution: Palearctic; Saharo-Arabian; Sino-Japanese.

***Helenasaldula* Cobben, 1976 [p. 302]**

Distribution: Afrotropical (Saint Helena Island).

***Helenasaldula aberrans* (White, 1878)\* [p. 303]**

Distribution: Afrotropical (Saint Helena Island).

***Ioseytus* Reuter, 1912 [p. 303]**

Distribution: Nearctic.

***Ioseytus beameri* (Hodgden, 1949) [p. 303]**

Distribution: Nearctic.

***Ioseytus chapmani* McKinnon & Polhemus, 1986 [p. 303]**

Distribution: Nearctic.

***Ioseytus cobbeni* Polhemus, 1964 [p. 303]**

Distribution: Nearctic.

***Ioseytus franciscanus* (Drake, 1949) [p. 303]**

Distribution: Nearctic.

***Ioseytus nasti* Drake & Hottes, 1955 [p. 303]**

Distribution: Nearctic.

***Ioseytus politus* (Uhler, 1877)\* [pp. 303–304]**

Distribution: Nearctic.

***Ioscytus tepidarius* (Hodgden, 1949)** [p. 304]

Distribution: Nearctic.

***Kiwisaldula* Larivière & Laroche, 2016**

*Kiwisaldula* Larivière & Laroche, 2016: 459.

Distribution: Australian (New Zealand).

***Kiwisaldula butleri* (White, 1878)** [p. 324, as *Saldula butleri*]

*Kiwisaldula butleri*: Larivière & Laroche, 2016: 472.

Distribution: Australian (New Zealand).

***Kiwisaldula cranshawi* Larivière & Laroche, 2018**

*Kiwisaldula cranshawi* Larivière & Laroche, 2018: 157.

Distribution: Australian (New Zealand).

***Kiwisaldula hurunui* Larivière & Laroche, 2017**

*Kiwisaldula hurunui* Larivière & Laroche, 2017: 48.

Distribution: Australian (New Zealand).

***Kiwisaldula januszkiewiczii* Larivière & Laroche, 2018**

*Kiwisaldula januszkiewiczii* Larivière & Laroche, 2018: 162.

Distribution: Australian (New Zealand).

***Kiwisaldula laelaps* (White, 1878)** [p. 331, as *Saldula laelaps*]

*Kiwisaldula laelaps*: Larivière & Laroche, 2016: 474.

Distribution: Australian (New Zealand).

***Kiwisaldula manawatawhi* Larivière & Laroche, 2016**

*Kiwisaldula manawatawhi* Larivière & Laroche, 2016: 468.

Distribution: Australian (New Zealand).

***Kiwisaldula parvula* (Cobben, 1961)\*** [p. 347, as *Saldula parvula*]

*Kiwisaldula parvula*: Larivière & Laroche, 2016: 466.

Distribution: Australian (New Zealand).

***Kiwisaldula porangahau* Larivière & Laroche, 2016**

*Kiwisaldula porangahau* Larivière & Laroche, 2016: 464.

Distribution: Australian (New Zealand).

***Kiwisaldula ryani* Larivière & Laroche, 2018**

*Kiwisaldula ryani* Larivière & Laroche, 2018: 159.

Distribution: Australian (New Zealand).

***Kiwisaldula stoneri* (Drake & Hoberlandt, 1951)**

*Saldula stoneri* Drake & Hoberlandt, 1951: 1. [p. 354].

*Kiwisaldula stoneri* Drake & Hoberlandt, 1950 [*sic*]: Larivière & Laroche, 2016: 461.

Distribution: Australian (New Zealand).

***Kiwisaldula waiho* Larivière & Laroche, 2017**

*Kiwisaldula waiho* Larivière & Laroche, 2017: 43.

Distribution: Australian (New Zealand).

***Kiwisaldula yangae* Larivière & Laroche, 2018**

*Kiwisaldula yangae* Larivière & Laroche, 2018: 155.

Distribution: Australian (New Zealand)

***Macrosaldula* Southwood & Leston, 1959** [p. 304]

*Saldula* (*Macrosaldula*) Southwood & Leston, 1959: 324. Upgraded to generic status by Leston & Southwood, 1964: 80.

Distribution: Nearctic; Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Macrosaldula bogdashana* Luo & Vinokurov, 2011**

*Macrosaldula bogdashana* Luo & Vinokurov, 2011: 57.

Distribution: Palearctic.



***Macrosaldula clavalis* Cobben, 1985** [p. 304]

Distribution: Palearctic.

***Macrosaldula heijningeni* (Cobben, 1959)** [p. 305]

Distribution: Palearctic.

***Macrosaldula indica* Vinokurov, 2013**

*Macrosaldula indica* Vinokurov, 2012: 303. Unavailable name

*Macrosaldula indica* Vinokurov, 2013: 58. Valid name. Holotype male (Národní Museum in Prague, Czech Republic); India, Himachal Pradesh State, Tandi Vill., 5 km S of Keylong.

Distribution: Oriental.

Remarks: Vinokurov (2012: 303) described *M. indica* without fixing a type series. This made the name unavailable under Article 16.4 of the International Code of Zoological Nomenclature. Vinokurov (2013) published an abbreviated description of this species, accompanied by an explicit fixation of the type series to validate its name.

***Macrosaldula inornata* Cobben, 1985** [p. 305]

Distribution: Saharo-Arabian.

***Macrosaldula jakowleffi* (Reuter, 1891)** [p. 305]

Distribution: Palearctic; Saharo-Arabian.

***Macrosaldula kaszabi* (Hoberlandt, 1971)** [p. 305]

Distribution: Palearctic.

***Macrosaldula kerzhneri* Cobben, 1985** [p. 305]

Distribution: Palearctic.

***Macrosaldula koktshetavica* Cobben, 1985** [p. 305]

Distribution: Palearctic.

***Macrosaldula koreana* (Kiritschenko, 1912)** [p. 305]

Distribution: Palearctic; Sino-Japanese.

***Macrosaldula madonica* (Seidenstucker, 1961)** [p. 305]

Distribution: Palearctic.

***Macrosaldula miyamotoi* Cobben, 1985** [pp. 305–306]

Distribution: Palearctic; Sino-Japanese.

***Macrosaldula monae* (Drake, 1952)** [p. 306]

Distribution: Nearctic.

***Macrosaldula mongolica* (Kiritschenko, 1912)** [p. 306]

Distribution: Palearctic.

***Macrosaldula nivalis* (Lindberg, 1935)** [p. 306]

Distribution: Oriental; Palearctic; Saharo-Arabian.

***Macrosaldula oblonga acetabularis* Cobben, 1985** [p. 306, under *M. oblonga*]

Distribution: Palearctic.

***Macrosaldula oblonga oblonga* (Stål, 1858)** [p. 306, as *M. oblonga*]

Distribution: Palearctic; Sino-Japanese.

***Macrosaldula rivularia* (Sahlberg, 1878)** [pp. 306–307]

Distribution: Nearctic; Palearctic.

***Macrosaldula roborowskii* (Jakovlev, 1889)** [p. 307]

Distribution: Palearctic.

***Macrosaldula scotica* (Curtis, 1835)\*** [pp. 307–308]

Distribution: Palearctic; Saharo-Arabian.

***Macrosaldula shikokuana* Cobben, 1985** [p. 308]

Distribution: Sino-Japanese.

***Macrosaldula simulans* Cobben, 1985** [p. 308]

Distribution: Palearctic.

***Macrosaldula tadzhika* (Kiritschenko, 1912)** [p. 308]

Distribution: Palearctic.

***Macrosaldula variabilis* (Herrich-Schaeffer, 1835)** [p. 308–310]

Distribution: Palearctic; Saharo-Arabian.

***Macrosaldula violacea* Cobben, 1985** [p. 310]

Distribution: Palearctic; Sino-Japanese.

***Mascarenisalda* Polhemus & Polhemus, 1991**

*Mascarenisalda* Polhemus & Polhemus, 1991: 512. Type species: *Saldula mametiana* Drake, 1953, by original designation.

Distribution: Madagascan.

***Mascarenisalda mametiana* (Drake, 1953)\***

*Saldula mametiana* Drake, 1953: 168. [p. 333]

*Mascarenisalda mametiana*: Polhemus & Polhemus, 1991: 514.

Distribution: Madagascan.

***Micracanthia* Reuter, 1912** [p. 310]

Distribution: Nearctic; Neotropical; Oriental; Palearctic; Panamanian; Saharo-Arabian; Sino-Japanese.

***Micracanthia ambigua* (Lindskog, 1985)** [p. 320, as *Saldula ambigua*]

*Micracanthia ambigua* [*sic*]: Vinokurov 2006a: 121.

Distribution: Palearctic.

***Micracanthia bergrothi* (Jakovlev, 1893)** [p. 310]

Distribution: Nearctic; Palearctic; Sino-Japanese.

***Micracanthia boninana* (Drake, 1961)** [p. 324, as *Saldula boninana*]

*Micracanthia boninana*: Lindskog, 1995: 125.

Distribution: Sino-Japanese.

***Micracanthia drakei* Cobben, 1960** [p. 311]

Distribution: Panamanian.

***Micracanthia fennica* (Reuter, 1884)** [p. 311]

Distribution: Palearctic.

Remark: According to Lindskog (1995: 125), earlier records from North America refer to a brachypterous form of *M. ripula* Drake (= *bergrothi* (Jakovlev)).

***Micracanthia floridana* Drake & Chapman, 1953** [p. 311]

Distribution: Nearctic.

***Micracanthia hasegawai* (Cobben, 1985)** [p. 330, as *Saldula hasegawai*]

*Micracanthia hasegawai*: Lindskog, 1995: 125.

Distribution: Palearctic; Sino-Japanese.

***Micracanthia hodgdeni* Drake, 1955** [p. 311]

Distribution: Neotropical.

***Micracanthia humilis* (Say, 1832)** [pp. 311–312]

Distribution: Nearctic; Neotropical; Panamanian.

***Micracanthia hungerfordi* (Hodgden, 1949)** [p. 312]

Distribution: Nearctic.

***Micracanthia husseyi* (Drake & Chapman, 1952)** [p. 312]

Distribution: Nearctic; Panamanian.

***Micracanthia marginalis* (Fallén, 1807)\*** [pp. 312–313]

Distribution: Palearctic.

***Micracanthia minor* (Hamid & Sultana, 1972)** [p. 334, as *Saldula minor*]

*Micracanthia minor*: Vinokurov, 2012: 298.

Distribution: Oriental; Saharo-Arabian.

***Micracanthia ornatula* (Reuter, 1881)** [p. 339, as *Saldula ornatula*]

*Micracanthia ornatula*: Lindskog, 1995: 126.

Distribution: Afrotropical; Australian (Australia); Madagascan; Oriental; Oceanian (Papua New Guinea); Palearctic; Saharo-Arabian; Sino-Japanese.

***Micracanthia peruviana* Cobben, 1986** [p. 313]

Distribution: Neotropical.

***Micracanthia pumpila* Blatchley, 1928** [p. 313]

Distribution: Nearctic.

***Micracanthia quadrimaculata* (Champion, 1900)** [p. 313]

Distribution: Nearctic; Panamanian.

***Micracanthia schuhi* Lattin, 1968** [pp. 313–314]

Distribution: Nearctic.

***Micracanthia utahensis* Drake & Hottes, 1955** [p. 314]

Distribution: Nearctic; Panamanian.

***Oiosalda* Drake & Hoberlandt, 1952** [p. 314]

Distribution: Neotropical.

***Oiosalda caboti* Drake & Hoberlandt, 1952\*** [p. 314]

Distribution: Neotropical.

***Orthophrys* Horváth, 1911** [p. 314]

Distribution: Palearctic; Saharo-Arabian.

***Orthophrys pygmaea* (Reuter, 1900)\*** [p. 314, as *O. pygmaeum*]

Distribution: Palearctic; Saharo-Arabian.

***Orthosaldula* Gapud, 1986**

*Orthosaldula* Gapud, 1986: 7.

Distribution: Oriental (Philippines).

***Orthosaldula flavonigra* Zettel & Gapud, 2008**

*Orthosaldula flavonigra* Zettel & Gapud, 2008: 325.

Distribution: Oriental (Philippines).

***Orthosaldula rubroalata* Gapud, 1986\***

*Orthosaldula rubroalata* Gapud, 1986: 17.

Distribution: Oriental (Philippines).

***Orthosaldula stysi* Zettel & Gapud, 2008**

*Orthosaldula stysi* Zettel & Gapud, 2008: 324.

Distribution: Oriental (Philippines).

***Pseudosaldula* Cobben, 1961** [p. 314]

Distribution: Neotropical; Panamanian.

***Pseudosaldula andensis* (Distant, 1891)** [p. 315]

Distribution: Neotropical.

***Pseudosaldula antioquia* Schuh & Polhemus, 2009**

*Pseudosaldula antioquia* Schuh & Polhemus, 2009: 24.

Distribution: Neotropical.

***Pseudosaldula aurea* Schuh & Polhemus, 2009**

*Pseudosaldula aurea* Schuh & Polhemus, 2009: 26.

Distribution: Neotropical.

***Pseudosaldula bergi* (Haglund, 1899)** [p. 315]

*Saldula sola* Drake & Carvalho, 1948:476. [p. 316, as *Pseudosaldula sola*] Synonymised by Schuh & Polhemus, 2009: 27.

*Saldula paralia* Torres, 1954: 88. [p. 316, as *Pseudosaldula paralia*] Synonymised by Schuh & Polhemus, 2009: 27.

*Pseudosaldula cobbeni* China, 1962: 715 [p. 315] Synonymised by Schuh & Polhemus, 2009: 27.

Distribution: Neotropical.

***Pseudosaldula bruesi* (Drake, 1949)**

*Pentacora bruesi* Drake, 1949: 187. [p. 315; as a junior synonym of *Pseudosaldula andensis*] Resurrected from synonymy by Schuh & Polhemus, 2009: 31.

*Pentacora amazona* Drake, 1955: 154. [p. 315, as *Pseudosaldula amazona*] Synonymised by Schuh & Polhemus, 2009: 31.

*Pentacora bucayana* Drake, 1955: 157. [p. 315, as *Pseudosaldula bucayana*] Synonymised by Schuh & Polhemus, 2009: 31.

*Pentacora pillaona* Drake, 1955: 156. [p. 316, as *Pseudosaldula pillaona* [sic]]. Synonymised by Schuh & Polhemus, 2009: 31 (as *P. pillaona*).

*Pseudosaldula bruesi*: Schuh & Polhemus, 2009: 31.

Distribution: Neotropical; Panamanian.

Remark: Species epithet misspelt as *pillaona* [sic] by Schuh *et al.* (1987) and a number of other publications.

***Pseudosaldula chilensis* (Blanchard, 1852)\*** [p. 315]

*Acanthia rogeri* Kirkaldy, 1899\*: 92. [p. 316, as *Pseudosaldula rogeri*] Synonymised by Schuh & Polhemus, 2009: 34.

*Pentacora angusta* Drake & Carvalho, 1948: 473. [p. 315, as *Pseudosaldula angusta*] Synonymised by Schuh & Polhemus, 2009: 34.

*Pentacora regilla* Drake, 1955: 155. [p. 316, as *Pseudosaldula regilla*] Synonymised by Schuh & Polhemus, 2009: 34.

Distribution: Neotropical.

***Pseudosaldula doeringi* (Drake & Carvalho, 1948)** [p. 315]

Distribution: Neotropical.

***Pseudosaldula huamachuco* Schuh & Polhemus, 2009**

*Pseudosaldula huamachuco* Schuh & Polhemus, 2009: 45.

Distribution: Neotropical.

***Pseudosaldula penai* Schuh & Polhemus, 2009**

*Pseudosaldula penai* Schuh & Polhemus, 2009: 47.

Distribution: Neotropical.

***Pseudosaldula perula* (Drake, 1955)** [p. 316]

Distribution: Neotropical.

***Pseudosaldula pilosa* Schuh & Polhemus, 2009**

*Pseudosaldula pilosa* Schuh & Polhemus, 2009: 52.

Distribution: Neotropical.

***Pseudosaldula salina* Schuh & Polhemus, 2009**

*Pseudosaldula salina* Schuh & Polhemus, 2009: 55.

Distribution: Neotropical.

***Pseudosaldula saxicola* Schuh & Polhemus, 2009**

*Pseudosaldula saxicola* Schuh & Polhemus, 2009: 57.

Distribution: Neotropical.

***Pseudosaldula vulgaris* Schuh & Polhemus, 2009**

*Pseudosaldula vulgaris* Schuh & Polhemus, 2009: 61.

Distribution: Neotropical.

***Pseudosaldula yungas* Schuh & Polhemus, 2009**

*Pseudosaldula yungas* Schuh & Polhemus, 2009: 66.

Distribution: Neotropical.

***Rupisalda* Polhemus, 1985** [p. 316]

Distribution: Afrotropical; Madagascan; Nearctic; Neotropical; Oriental; Panamanian; Sino-Japanese.

Remarks: Polhemus originally proposed the name *Rupisalda* in his 1977 unpublished PhD thesis. Polhemus (1981) used the name *Rupisalda* in the literature for the first time, but he did not select a type species to validate this genus although two African species (*speciosa* and *thika*) were described in it. The text of Polhemus's 1977 thesis was published unchanged in 1985, validating the name *Rupisalda* with the selection of the central american *R. petricola* as type species. Cobben (1987b) remarked that the grouping of African species by Polhemus (1985) in the neotropical genus *Rupisalda* appeared premature, stating that "the type species of *Rupisalda* [*R. petricola*] is not congeneric with the African assemblage" and that he [Cobben] had "some

evidence that the American species included in *Rupisalda* do not constitute a monophyletic group.” Consequently, Cobben (1987b: 23–24) listed 6 African species (*R. africana*, *R. capicola*, *R. machadoi*, *R. speciosa*, *R. thika*, *Saldula waltoni*) under *Saldula* Group VI, “leaving the question of generic attribution unsolved.” Polhemus & Polhemus (1992) transferred *Saldula thailandana* to *Rupisalda* but did not comment on the generic affiliation of four other species belonging to the Indo-Malayan *Saldula fletcheri*-group *sensu* Cobben (1986), namely *S. championi* Drake, 1954, *S. edita* Drake & Hoberlandt, 1951, *S. fletcheri* (Distant, 1909), and *S. pusana* (Distant, 1909). Vinokurov (2015) described *Rupisalda austrosinica* which also belongs to the *Saldula fletcheri*-group and, being of the opinion that this species-group seems to be monophyletic and sits awkwardly in two separate genera, he transferred the entire ‘*S.*’ *fletcheri* species-group to *Rupisalda*. The monophyly of *Rupisalda* and the relationships between ‘Neotropical’, ‘Afrotropical’ and ‘Oriental’ species currently placed in this genus, remain to be thoroughly tested.

***Rupisalda abdominalis* (Champion, 1900)** [p. 316]

Distribution: Panamanian.

***Rupisalda africana* (Drake, 1954)** [p. 316]

*Saldula araria* Drake, 1963: 3. [p. 316, as *Rupisalda araria*]. Synonymised by Cobben, 1987b: 24.

Distribution: Afrotropical.

***Rupisalda atra* Polhemus & Polhemus, 1991**

*Rupisalda atra* Polhemus & Polhemus, 1991: 515.

Distribution: Madagascan.

***Rupisalda austrosinica* Vinokurov, 2015**

*Rupisalda austrosinica* Vinokurov, 2015: 572.

Distribution: Oriental; Sino-Japanese.

***Rupisalda capicola* (Drake, 1954)** [p. 316]

Distribution: Afrotropical.

***Rupisalda championi* (Drake, 1954)** [p. 326, as *Saldula championi*]

*Rupisalda championi*: Vinokurov, 2015: 578.

Distribution: Oriental.

***Rupisalda cremnosa* Polhemus, 1985** [p. 317]

Distribution: Panamanian.

***Rupisalda dewsi* (Hodgden, 1949)** [p. 317]

Distribution: Nearctic; Panamanian.

***Rupisalda edita* (Drake & Hoberlandt, 1951)** [p. 328, as *Saldula edita*]

*Rupisalda edita*: Vinokurov 2015: 578.

Distribution: Oriental.

***Rupisalda fletcheri* (Distant, 1909)** [p. 329, as *Saldula fletcheri*]

*Rupisalda fletcheri*: Vinokurov 2015: 578.

Distribution: Oriental.

***Rupisalda icolana* (Drake, 1955)** [p. 317]

Distribution: Neotropical.

***Rupisalda machadoi* (Drake, 1960)** [p. 317]

Distribution: Afrotropical.

***Rupisalda monticola* Polhemus, 1985** [p. 317]

Distribution: Nearctic.

***Rupisalda petricola* Polhemus, 1985\*** [p. 317]

Distribution: Panamanian.

***Rupisalda pusana* (Distant, 1909)** [p. 349, as *Saldula pusana*]

*Rupisalda pusana*: Vinokurov, 2015: 578.

Distribution: Oriental.

***Rupisalda saxicola* (Polhemus, 1972)** [p. 317]

Distribution: Nearctic; Panamanian.

*Rupisalda slateri* Polhemus & Polhemus, 1991

*Rupisalda slateri* Polhemus & Polhemus, 1991: 516.

Distribution: Madagascan.

***Rupisalda speciosa* Polhemus, 1981** [p. 317]

Distribution: Afrotropical.

***Rupisalda subsolans* (Drake & Hottes, 1950)** [p. 354, as *Saldula subsolans*]

*Rupisalda subsolans*: Polhemus, 1991: 441.

Distribution: Oriental.

***Rupisalda sulcata* (Barber, 1939)** [p. 317]

Distribution: Panamanian.

***Rupisalda teretis* (Drake, 1950)** [p. 317]

Distribution: Nearctic.

***Rupisalda thailandana* (Cobben, 1986)** [p. 354, as *Saldula thailandana*]

*Rupisalda thailandana*: Polhemus & Polhemus, 2012: 336.

Distribution: Oriental.

***Rupisalda thika* Polhemus, 1981** [p. 317]

Distribution: Afrotropical.

***Rupisalda uichancoi* (Drake & Viado, 1951)** [p. 354, as *Saldula uichancoi*]

*Rupisalda uichancoi*: Polhemus, 1991a: 441.

Distribution: Oriental.

***Rupisalda ventralis* (Stål, 1860)** [p. 317]

Distribution: Neotropical; Panamanian.

***Rupisalda verdica* (Drake & Hottes, 1951)** [p. 318]

Distribution: Neotropical.

***Rupisalda vincenti* Polhemus & Polhemus, 1991**

*Rupisalda vincenti* Polhemus & Polhemus, 1991: 518.

Distribution: Madagascan.

***Rupisalda zelena* (Drake, 1955)** [p. 318]

Distribution: Neotropical.

***Saldoidea* Osborn, 1901** [p. 318]

Distribution: Afrotropical; Nearctic; Oriental; Sino-Japanese.

***Saldoidea armata* Horváth, 1911** [p. 318]

Distribution: Australian (Australia); Oceanian (Papua New Guinea); Oriental; Sino-Japanese.

***Saldoidea cornuta* Osborn, 1901** [p. 318]

Distribution: Nearctic.

***Saldoidea schmitzi* Cobben, 1987**

*Saldoidea schmitzi* Cobben, 1987b: 9. Holotype male (Musée royal de l'Afrique centrale, Tervuren), Malawi, Siphya Mts., Dambo Elephant Rock.

Distribution: Afrotropical.

***Saldoidea slossonae slossonae* Osborn, 1901\*** [p. 319, as *S. slossonae*]

Distribution: Nearctic.

***Saldoidea slossonae wileyae* Hungerford, 1922** [p. 319, under *S. slossonae*]

*Saldoidea slossoni* [sic] *wileyi* [sic] Hungerford, 1922: 64. Synonymised with *S.* by Usinger, 1945: 116; used as a valid subspecies by Slater, 1982: 41 and Polhemus, 1988: 676.

Distribution: Nearctic.

***Saldoidea turbaria* Schuh, 1967** [p. 319]

Distribution: Nearctic.

***Saldula* Van Duzee, 1914** [pp. 319–320]

Distribution: Afrotropical; Australian (Australia); Madagascan; Nearctic; Neotropical; Oceanian (Fiji, French Polynesia, Guam, New Caledonia, Palau, Samoa, Solomon Islands); Oriental; Palearctic; Panamanian; Saharo-Arabian; Sino-Japanese.

Remark: *Saldula* (*sensu lato*) is a large, nearly worldwide polyphyletic taxon that has often served as a 'wastebasket genus' to classify species that could not readily fit elsewhere. Lindskog & Polhemus (1992)

estimated that nearly half of known Saldidae were contained in *Saldula* and that nearly half of *Saldula* species could eventually be transferred to other genera. To this date, almost a third of Saldidae species remain in *Saldula* (*sensu lato*), most of which remaining to be considered within the monophyletic concept of *Saldula* (*sensu stricto*) put forward by Lindskog & Polhemus (1992).

***Saldula ablusa* Drake & Hottes, 1954** [p. 320]

Distribution: Nearctic.

***Saldula amplicollis* (Reuter, 1891)** [pp. 320–321]

Distribution: Palearctic; Saharo-Arabian.

***Saldula andrei andrei* Drake, 1949** [p. 321]

Distribution: Nearctic.

***Saldula andrei azteca* Drake & Hottes, 1949** [p. 321, under *S. andrei*]

Distribution: Nearctic.

***Saldula arenicola arenicola* (Scholtz, 1847)** [pp. 321–323, as *S. arenicola*]

*Salda ocellata* A. Costa, 1847: 9. Incorrectly synonymised with *Saldula pallipes* by Herrich-Schaeffer, 1850: 132; synonymised with *S. arenicola* by Lindskog, 1995: 127.

Distribution: Afrotropical; Palearctic; Saharo-Arabian; Sino-Japanese.

Remark: Species erroneously recorded from the Nearctic region (Lindskog, 1995: 127).

***Saldula arenicola ussurica* Vinokurov, 1981** [p. 323, under *S. arenicola*]

Distribution: Palearctic.

***Saldula balli* Drake, 1950** [p. 323]

Distribution: Nearctic.

***Saldula basingeri* Drake, 1949** [pp. 323–324]

Distribution: Nearctic.

***Saldula bengali* Cobben, 1986** [p. 324]

Distribution: Oriental; Sino-Japanese.

***Saldula bouchervillei* (Provancher, 1872)** [p. 324]

Distribution: Nearctic.

***Saldula brevicornis* Rimes, 1951** [p. 324]

Distribution: Australian (Australia).

***Saldula burmanica* Lindskog, 1975** [p. 324]

Distribution: Oriental; Sino-Japanese.

***Saldula c-album* (Fieber, 1859)** [pp. 325–326]

*Saldula c-album*: Kerzhner & Vinokurov, 2004: 15 (as *nomen protectum*).

Distribution: Palearctic; Saharo-Arabian.

***Saldula chartoscirtoides* Cobben, 1986** [p. 326]

Distribution: Neotropical.

***Saldula comata* (Champion, 1900)** [p. 326]

Distribution: Nearctic.

***Saldula comatula* Parshley, 1921** [pp. 326–327]

Distribution: Nearctic.

***Saldula confluenta* (Say, 1832)** [p. 327]

Distribution: Nearctic.

***Saldula connemarae* Walton, 1986** [p. 327]

Distribution: Palearctic.

***Saldula coorongensis* Rimes, 1951** [p. 327]

Distribution: Australian (Australia).

***Saldula coxalis* (Stål, 1873)** [p. 327]

Distribution: Nearctic; Neotropical; Panamanian.

***Saldula cygni* (Kirkaldy, 1899)** [pp. 327–328]

Distribution: Australian (Australia).

***Saldula dentulata* (Hodgden, 1949)** [p. 328]

Distribution: Neotropical; Panamanian.

- Saldula differata* Drake & Carvalho, 1948** [p. 328]  
Distribution: Neotropical.
- Saldula dispersa* (Uhler, 1893)** [p. 328]  
Distribution: Nearctic.
- Saldula durangoana* Polhemus, 1972** [p. 328]  
Distribution: Nearctic.
- Saldula explanata* (Uhler, 1893)** [pp. 328–329]  
Distribution: Nearctic.
- Saldula exulans* (White, 1878)** [p. 329]  
Distribution: Nearctic.
- Saldula filippii* Cobben, 1987**  
*Saldula filippii* Cobben, 1987a: 403. Holotype male (BMNH), Ethiopia, Mt. Chillalo.  
Distribution: Afrotropical.
- Saldula fucicola* (Sahlberg, 1870)** [pp. 329–330]  
Distribution: Palearctic; Sino-Japanese.
- Saldula galapagosana* Polhemus, 1968** [p. 330]  
Distribution: Neotropical.
- Saldula gidshaensis* Cobben, 1987**  
*Saldula gidshaensis* Cobben, 1987a: 402. Holotype male (Wageningen Collection), Ethiopia, Gidsha valley.  
Distribution: Afrotropical.
- Saldula gilloglyi* Polhemus & Polhemus, 2006**  
*Saldula gilloglyi* Polhemus & Polhemus, 2006: 45.  
Distribution: Oceanian (Fiji).
- Saldula guamensis* Drake & Hottes, 1950** [p. 330]  
Distribution: Oceanian (Guam).
- Saldula inconspicua* Cobben, 1987**  
*Saldula inconspicua* Cobben, 1987a: 400. Holotype male (BMNH), Algeria, Biskra.  
Distribution: Saharo-Arabian.
- Saldula inoana* Drake, 1961** [p. 330]  
Distribution: Oceanian (Fiji).
- Saldula intermedia* Cobben, 1980** [p. 331]  
Distribution: Nearctic.
- Saldula javanica* (Jaczewski, 1935)** [p. 331]  
Distribution: Oriental.
- Saldula katonai* Drake & Hoberlandt, 1951** [p. 331]  
Distribution: Afrotropical.
- Saldula kauaiensis* Cobben, 1980** [p. 331]  
Distribution: Nearctic.
- Saldula kurentzovi* Vinokurov, 1979** [p. 331]  
Distribution: Palearctic; Sino-Japanese.
- Saldula laevis* (Champion, 1900)** [p. 331]  
Distribution: Panamanian.
- Saldula laticollis* (Reuter, 1875)** [pp. 331–332]  
Distribution: Nearctic.
- Saldula lattini* Chapman & Polhemus, 1965** [p. 332]  
Distribution: Nearctic.
- Saldula lindbergi* Lindskog, 1975** [p. 332]  
Distribution: Saharo-Arabian.
- Saldula lindskogi* Vinokurov, 2004**  
*Saldula lindskogi* Vinokurov, 2004a: 29.  
Distribution: Palearctic.
- Saldula lita* Drake, 1961** [p. 332]



Distribution: Afrotropical.

***Saldula lomata* Polhemus, 1985** [p. 332]

Distribution: Neotropical; Panamanian.

***Saldula longicornis* Cobben, 1980** [p. 332]

Distribution: Nearctic.

***Saldula luctuosa* (Stål, 1859)** [p. 332]

Distribution: Nearctic.

***Saldula luteola* Lindskog & Polhemus, 1992**

*Saldula luteola* Lindskog & Polhemus, 1992: 72.

Distribution: Saharo-Arabian.

***Saldula madagascariensis* Cobben, 1987**

*Saldula madagascariensis* Cobben, 1987a: 417. Holotype female (Muséum national d'Histoire naturelle, Paris), Madagascar, Isalo.

Distribution: Madagascan.

***Saldula mariae* Vinokurov, 1978** [p. 333]

Distribution: Palearctic.

***Saldula melanoscela* (Fieber, 1859)** [pp. 333–334]

*Saldula amoena* (Reuter, 1876). [p. 320] Synonymised by Vinokurov, 2004b: 107.

Distribution: Palearctic; Saharo-Arabian; Sino-Japanese.

***Saldula misis* Seidenstücker, 1964** [p. 185, as *Saldula xanthochila misis*]

*Saldula xanthochila misis* Seidenstücker, 1964: 81. Upgraded to full species status by Cobben, 1987a: 411.

Distribution: Palearctic; Saharo-Arabian.

***Saldula montana* Cobben & Polhemus, 1966** [p. 334]

Distribution: Afrotropical.

***Saldula montensis* Cobben, 1987**

*Saldula montensis* Cobben, 1987a: 408. Holotype male (Tervuren Museum), Malawi, South. Reg. Mount Mulanje, Lichenya Plateau.

Distribution: Afrotropical.

***Saldula montigena* Cobben, 1987**

*Saldula montigena* Cobben, 1987a: 408. Holotype male (Swedish Museum Nat. Hist., Stockholm), Uganda/Kenya, Mt. Elgon, Eastside.

Distribution: Afrotropical.

***Saldula montivaga* Cobben, 1987**

*Saldula montivaga* Cobben, 1987a: 408. Holotype male (Wageningen Collection), Mt. Kenya.

Distribution: Afrotropical.

***Saldula nicholsoni* (Hale, 1924)** [p. 334]

Distribution: Australian (Australia).

***Saldula nigrita* Parshley, 1921** [p. 334]

Distribution: Nearctic.

***Saldula nitidula* (Putton, 1880)** [p. 185, as *Salda opacula nitidula* under *S. opacula*]

*Salda opacula nitidula* Puton, 1880: 197. Upgraded to full species status by Péricart, 1990: 159.

Distribution: Palearctic.

***Saldula niveolimbat* (Reuter, 1900)** [p. 335]

Distribution: Afrotropical; Australian (Australia); Madagascan; Oceanian (Guam, New Caledonia, Palau, Samoa); Oriental.

***Saldula nobilis* (Horváth, 1884)** [p. 335, “Horvath, 1883”]

Distribution: Palearctic; Sino-Japanese.

***Saldula notera* Drake, 1963** [p. 335]

Distribution: Afrotropical.

***Saldula nubigena* (Kirkaldy, 1908)** [p. 336]

Distribution: Nearctic.

***Saldula oahuensis* (Blackburn, 1888)** [p. 336]

Distribution: Nearctic.

***Saldula opacula* (Zetterstedt, 1838)** [pp. 336–338]

*Salda quadrilineata* Jakovlev, 1865: 115. [p. 349, as *Saldula quadrilineata*] Synonymised by Lindskog, 1995: 130.

Distribution: Nearctic; Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Saldula opiparia* Drake & Hottes, 1955** [p. 338]

Distribution: Nearctic.

***Saldula orbiculata* (Uhler, 1877)** [pp. 338–339]

Distribution: Nearctic.

***Saldula orthochila* (Fieber, 1859)** [pp. 339–340]

Distribution: Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Saldula palauana* Drake, 1961** [p. 340]

Distribution: Oceanian (Guam, Micronesia, Palau).

***Saldula pallipes dimidiata* (Curtis, 1835)** [pp. 341–345, under *S. pallipes*]

Distribution: Nearctic; Palearctic; Saharo-Arabian.

***Saldula pallipes pallipes* (Fabricius, 1794)** [pp. 341–345, as *S. pallipes*]

Distribution: Nearctic; Neotropical; Oriental; Palearctic; Panamanian; Saharo-Arabian; Sino-Japanese.

***Saldula palustris* (Douglas, 1874)** [pp. 345–347]

Distribution: Afrotropical; Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

Remarks. Earlier records from the New World refer to other species (Lindskog, 1995: 132). Linnavuori (2009) and Linnavuori *et al.* (2011) recorded *S. palustris pallidipennis* without validating this taxonomic change (Aukema *et al.*, 2013).

***Saldula parens* Cobben, 1986** [p. 347]

Distribution: Oceanian (Solomon Islands).

***Saldula penningtoni* Drake & Carvalho, 1948** [p. 347]

Distribution: Neotropical.

***Saldula pericarti* Vinokurov, 2012**

*Saldula pericarti* Vinokurov, 2012: 305. Holotype male (Národní Museum in Prague, Czech Republic); India, Jammu and Kashmir State, Srinagar.

Distribution: Saharo-Arabian.

***Saldula pexa* Drake, 1950** [p. 347]

Distribution: Nearctic.

***Saldula pilosella hirsuta* (Reuter, 1888)** [p. 348, under *S. pilosella*]

Distribution: Palearctic.

***Saldula pilosella pilosella* (Thomson, 1871)** [pp. 347–348, as *S. pilosella*]

Distribution: Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

***Saldula procellaris* (Kirkaldy, 1908)** [p. 349]

Distribution: Nearctic.

***Saldula pruinosa* Cobben, 1987**

*Saldula pruinosa* Cobben, 1987a: 413. Holotype female (Tervuren Collection), Tanzania, Mt Uluguru, Morning Side, Toelo forest.

Distribution: Afrotropical.

***Saldula psammobia* Rimes, 1951** [p. 349]

Distribution: Australian (Australia).

***Saldula recticollis* (Horváth, 1899)** [p. 349]

*Saldula fukiensis* Drake & Maa, 1954: 253. [p. 330] Synonymised by Lindskog, 1995: 132.

*Saldula* (*Saldula*) *arsenjevi* Vinokurov, 1981: 11. [p. 323] Synonymised by Lindskog, 1995: 132.

Distribution: Oriental; Palearctic; Sino-Japanese.

***Saldula reuteriella* (Kirkaldy, 1899)** [p. 349]

Distribution: Australian (Australia).

***Saldula robertusingeri* Cobben, 1982** [p. 349]

Distribution: Nearctic.

***Saldula saltatoria* (Linnaeus, 1758)\*** [pp. 349–353]  
Distribution: Nearctic; Palearctic; Panamanian; Saharo-Arabian; Sino-Japanese.

***Saldula sardoa* Filippi, 1957** [p. 353]  
Distribution: Palearctic.

***Saldula scitula* Drake & Hottes, 1950** [p. 353]  
Distribution: Neotropical.

***Saldula setulosa* (Puton, 1880)** [p. 353]  
Distribution: Palearctic; Saharo-Arabian.

***Saldula severini* Harris, 1943** [p. 353]  
Distribution: Nearctic.

***Saldula sibiricola* Cobben, 1985** [p. 353]  
Distribution: Palearctic.

***Saldula solomonensis* Cobben, 1986** [p. 354]  
Distribution: Oceanian (Solomon Islands).

***Saldula sonneveldti* Blöte, 1947** [p. 354]  
Distribution: Oriental.

***Saldula subcarinata* (China, 1924)** [p. 354]  
Distribution: Madagascan.

***Saldula sulcicollis* (Champion, 1900)** [p. 354]  
Distribution: Nearctic; Panamanian.

***Saldula tahitiensis* Cobben, 1961** [p. 354]  
Distribution: Oceanian (French Polynesia).

***Saldula taiwanensis* Cobben, 1985** [p. 354]  
Distribution: Oriental; Sino-Japanese.

***Saldula tuberculata* Cobben, 1987**

*Saldula tuberculata* Cobben, 1987a: 413. Holotype male (Musée Royal de l'Afrique Centrale, Tervuren, Belgium), Zaïre, Kivu, Uvira, Mulenge-Lemera.

Distribution: Afrotropical.

***Saldula usingeri* Polhemus, 1967** [p. 355]  
Distribution: Nearctic.

***Saldula villosa* (Hodgden, 1949)** [p. 355]  
Distribution: Nearctic.

***Saldula waltoni* Cobben & Polhemus, 1966** [p. 355]  
Distribution: Afrotropical.

***Saldula xanthoa* Cobben, 1987**

*Saldula xanthoa* Cobben, 1987a: 411. Holotype female (Wageningen Collection), South Africa, C.P. Wilderness.

Distribution: Afrotropical.

***Saldula xanthochila* (Fieber, 1859)** [pp. 355–356]

Distribution: Oriental; Palearctic; Saharo-Arabian; Sino-Japanese.

Remark: Earlier records from South Africa refer to another species (Lindskog, 1995: 134).

***Saldula zairensis* Cobben, 1987**

*Saldula zairensis* Cobben, 1987a: 415. Holotype female (Coll. Tervuren), Zaïre, Massif Ruwenzori, Kikwo near Kalonge.

Distribution: Afrotropical.

***Saldula zena* Polhemus, 1985** [p. 356]  
Distribution: Panamanian.

***Sinosalda* Vinokurov, 2004**

*Sinosalda* Vinokurov, 2004c: 9.

Distribution: Sino-Japanese.

***Sinosalda insolita* Vinokurov, 2004\***

*Sinosalda insolita* Vinokurov, 2004c: 9. Holotype male (Zoological Institute, St. Petersburg), China, Shaanxi, Quin Ling Shan, Xian E, Hue Shan Mts.  
Distribution: Sino-Japanese.

***Zemacrosaldula Larivière & Laroche*, 2015**

*Zemacrosaldula Larivière & Laroche*, 2015: 247.

Distribution: Australian (New Zealand).

***Zemacrosaldula australis* (White, 1876)\*** [p. 323, as *Saldula australis*]

*Saldula trivialis* Cobben, 1961: 102. [p. 354] Synonymised by Larivière & Laroche, 2016: 478.

*Zemacrosaldula australis*: Larivière & Laroche, 2015: 249.

Distribution: Australian (New Zealand).

***Zemacrosaldula kapekape Larivière & Laroche*, 2015**

*Zemacrosaldula kapekape Larivière & Laroche*, 2015: 257.

Distribution: Australian (New Zealand).

***Zemacrosaldula pangare Larivière & Laroche*, 2015**

*Zemacrosaldula pangare Larivière & Laroche*, 2015: 260.

Distribution: Australian (New Zealand).

***Zemacrosaldula whakarunga Larivière & Laroche*, 2015**

*Zemacrosaldula whakarunga Larivière & Laroche*, 2015: 258.

Distribution: Australian (New Zealand).

**SALDUNCULINI [p. 356]**

***Salduncula Brown*, 1954** [p. 356]

Distribution: Australian (Australia); Madagascan; Oceanian (Guam, Micronesia, Samoa); Oriental; Sino-Japanese.

***Salduncula carmentis* Zettel, Pangantihon & Freitag, 2013**

*Salduncula carmentis* Zettel, Pangantihon & Freitag, 2013: 83.

Distribution: Oriental.

***Salduncula decempunctata Miyamoto*, 1963** [p. 356]

Distribution: Sino-Japanese.

***Salduncula fasciata Polhemus*, 1991**

*Salduncula fasciata Polhemus*, 1991: 157.

Distribution: Oriental.

***Salduncula murphyi Polhemus*, 1991**

*Salduncula murphyi Polhemus*, 1991: 156.

Distribution: Oriental.

***Salduncula palawanensis Polhemus*, 1991**

*Salduncula palawanensis Polhemus*, 1991: 158.

Distribution: Oriental.

***Salduncula seychellensis Brown*, 1954\*** [p. 356]

Distribution: Madagascan.

***Salduncula swezeyi (Usinger)*, 1946** [p. 356]

Distribution: Australian (Australia); Oceanian (Guam, Micronesia).

***Salduncula woodwardi Drake*, 1957** [p. 356]

Distribution: Oceanian (Samoa).

**World distribution of genera**

The table below gives an overview of the geographic distribution of Saldidae genera according to the terrestrial zoogeographic realms of Holt *et al.* (2013) and countries of the Australian and Oceanian realms.

**TABLE 2.** Geographic distribution of Saldidae genera. Realms: Afrotropical (AFR), Australian (AUS), Madagascan (MAD), Nearctic (NEA), Neotropical (NEO), Oceanian (OCE), Oriental (ORI), Palearctic (PAL), Panamanian (PAN), Saharo-Arabian (S-A), Sino-Japanese (S-J). Countries: Australia (AU), Fiji (FJ), French Polynesia (PF), Guam (GU), Micronesia (FM), New Caledonia (NC), New Zealand (NZ), Saint Helena (SH), Solomon Islands (SB), Samoa (WS).

<b>Chiloxanthinae</b>										
<i>Chiloxanthus</i>				NEA			ORI	PAL	S-A	S-J
<i>Enalosalda</i>				NEA						
<i>Paralosalda</i>								PAN		
<i>Pentacora</i>	AUS (AU)			NEA	NEO	OCE (SB)	ORI	PAL	PAN	S-A
<b>Saldinae</b>										
<b>Saldini</b>										
<i>Lampracanthia</i>				NEA						
<i>Salda</i>				NEA				PAL		S-J
<i>Teloleuca</i>				NEA				PAL		S-J
<b>Saldoidini</b>										
<i>Aoteasalda</i>	AUS (NZ)									
<i>Calacanthia</i>				NEA				PAL		S-J
<i>Capitonisalda</i>	AFR									
<i>Capitonisaldoida</i>			MAD							
<i>Chartosaldoida</i>	AFR									
<i>Chartoscirta</i>	AFR						ORI	PAL	S-A	S-J
<i>Halosalda</i>								PAL	S-A	S-J
<i>Helenasaldula</i>	AFR (SH)									
<i>Ioscytus</i>				NEA						
<i>Kiwisaldula</i>	AUS (NZ)									
<i>Macrosaldula</i>				NEA			ORI	PAL	S-A	S-J
<i>Mascarenisalda</i>			MAD							
<i>Micracanthia</i>				NEA	NEO		ORI	PAL	PAN	S-A
<i>Oiosalda</i>					NEO					
<i>Orthophrys</i>								PAL	S-A	
<i>Orthosaldula</i>							ORI (PH)			
<i>Pseudosaldula</i>					NEO				PAN	
<i>Rupisalda</i>	AFR		MAD	NEA	NEO		ORI		PAN	S-J
<i>Saldoida</i>	AFR			NEA			ORI			S-J
<i>Saldula</i>	AFR	AUS (AU)	MAD	NEA	NEO	OCE (FJ, GU, NC, PF, PW, SB, WS)	ORI	PAL	PAN	S-A
<i>Sinosalda</i>										S-J
<i>Zemacrosaldula</i>		AUS (NZ)								
<b>Saldunculini</b>										
<i>Salduncula</i>		AUS (AU)	MAD			OCE (FM, GU, WS)	ORI			S-J

## Faunistic lists of species-group taxa

Alphabetical lists of valid species-group taxa are provided below for each of the 11 terrestrial zoogeographic realms of Holt *et al.* (2013) as well as countries of the Australian and Oceanian realms.

### APPENDIX A. Faunistic lists by zoogeographic realms.

**Bold** = taxa known from a single realm. Number outside parentheses = taxa recorded for a realm. Number between parentheses = taxa restricted to a particular realm.

#### AFROTROPICAL

30(25)

*Capitonisalda aethiopica*

*Capitonisalda ripa*

*Chartosaldoida miridiformis*

*Chartoscirta cincta cincta*

*Chartoscirta cincta paracincta*

*Helenasaldula aberrans*

*Micracanthia ornata*

*Rupisalda africana*

*Rupisalda capicola*

*Rupisalda machadoi*

*Rupisalda speciosa*

*Rupisalda thika*

*Saldoida schmitzi*

*Saldula arenicola arenicola*

*Saldula filippii*

*Saldula gidshaensis*

*Saldula katonai*

*Saldula lita*

*Saldula montana*

*Saldula montensis*

*Saldula montigena*

*Saldula montivaga*

*Saldula niveolimbata*

*Saldula notera*

*Saldula palustris*

*Saldula pruinosa*

*Saldula tuberculata*

*Saldula waltoni*

*Saldula xanthoa*

*Saldula zairensis*

#### AUSTRALIAN

28(26)

**Australia**

11(9)

*Pentacora grossi*

*Pentacora leucographa*

*Pentacora salina*

*Saldula brevicornis*

*Saldula coorongensis*

*Saldula cygni*

*Saldula nicholsoni*

*Saldula niveolimbata*

*Saldula psammobia*

*Saldula reuteriella*

*Salduncula swezeyi*

#### New Zealand

17(17)

*Aoteasalda maculipennis*

*Kiwisaldula butleri*

*Kiwisaldula cranshawi*

*Kiwisaldula hurunui*

*Kiwisaldula januszkiewiczzi*

*Kiwisaldula laelaps*

*Kiwisaldula manawatawhi*

*Kiwisaldula parvula*

*Kiwisaldula porangahau*

*Kiwisaldula ryani*

*Kiwisaldula stoneri*

*Kiwisaldula waiho*

*Kiwisaldula yangae*

*Zemacrosaldula australis*

*Zemacrosaldula kapekape*

*Zemacrosaldula pangare*

*Zemacrosaldula whakarunga*

#### MADAGASCAN

10(8)

*Capitonisaldoida cryptica*

*Mascarenisalda mametiana*

*Micracanthia ornata*

*Rupisalda atra*

*Rupisalda slateri*

*Rupisalda vincenti*

*Saldula madagascariensis*

*Saldula niveolimbata*

*Saldula subcarinata*

*Salduncula seychellensis*

#### NEARCTIC

84(59)

*Calacanthia trybomi*

*Chiloxanthus pilosus*

*Chiloxanthus stellatus stellatus*

*Enalosalda mexicana*

*Ioscytus beameri*

*Ioscytus chapmani*

*Ioscytus cobbeni*

*Ioscytus franciscanus*

*Ioscytus nasti*

*Ioscytus politus*

*Ioscytus tepidarius*

*Lampracanthia crassicornis*

*Macrosaldula monae*

*Macrosaldula rivularia*  
*Micracanthia bergrothi*  
***Micracanthia floridana***  
*Micracanthia humilis*  
***Micracanthia hungerfordi***  
*Micracanthia husseyi*  
***Micracanthia pumpila***  
*Micracanthia quadrimaculata*  
***Micracanthia schuhi***  
*Micracanthia utahensis*  
*Pentacora hirta*  
***Pentacora ligata***  
***Pentacora ouachita***  
***Pentacora saratogae***  
*Pentacora signoreti*  
*Pentacora sphacelata*  
*Rupisalda dewsi*  
***Rupisalda monticola***  
*Rupisalda saxicola*  
***Rupisalda teretis***  
***Salda alta***  
***Salda anthracina***  
***Salda buenoi***  
***Salda coloradensis***  
***Salda coriacea***  
*Salda littoralis*  
*Salda lugubris*  
***Salda obscura***  
*Salda sahlbergi*  
***Saldoidea cornuta***  
***Saldoidea slossonae slossonae***  
***Saldoidea slossonae wileyae***  
***Saldoidea turbaria***  
***Saldula ablusa***  
***Saldula andrei andrei***  
***Saldula andrei azteca***  
***Saldula balli***  
***Saldula basingeri***  
***Saldula bouchervillei***  
***Saldula comata***  
***Saldula comatula***  
***Saldula confluenta***  
*Saldula coxalis*  
***Saldula dispersa***  
***Saldula durangoana***  
***Saldula explanata***  
***Saldula exulans***  
***Saldula intermedia***  
***Saldula kauaiensis***  
***Saldula laticollis***  
***Saldula lattini***  
***Saldula longicornis***  
***Saldula luctuosa***  
***Saldula nigrita***  
***Saldula nubigena***  
***Saldula oahuensis***  
***Saldula opacula***  
***Saldula opiparia***

*Saldula orbiculata*  
*Saldula pallipes dimidiata*  
*Saldula pallipes pallipes*  
***Saldula pexa***  
***Saldula procellaris***  
***Saldula robertusingeri***  
*Saldula saltatoria*  
***Saldula severini***  
*Saldula sulcicollis*  
***Saldula usingeri***  
***Saldula villosa***  
*Teloleuca bifasciata*  
*Teloleuca pellucens*

#### NEOTROPICAL

34(25)

***Micracanthia hodgdeni***  
*Micracanthia humilis*  
***Micracanthia peruviana***  
***Oiosalda caboti***  
*Pentacora signoreti*  
*Pentacora sphacelata*  
***Pseudosaldula andensis***  
***Pseudosaldula antioquia***  
***Pseudosaldula aurea***  
***Pseudosaldula bergi***  
*Pseudosaldula bruesi*  
***Pseudosaldula chilensis***  
***Pseudosaldula doeringi***  
***Pseudosaldula huamachuco***  
***Pseudosaldula penai***  
***Pseudosaldula perula***  
***Pseudosaldula pilosa***  
***Pseudosaldula salina***  
***Pseudosaldula saxicola***  
***Pseudosaldula vulgaris***  
***Pseudosaldula yungas***  
***Rupisalda icolana***  
*Rupisalda ventralis*  
***Rupisalda verdica***  
***Rupisalda zelena***  
***Saldula chartoscirtoides***  
*Saldula coxalis*  
*Saldula dentulata*  
***Saldula differata***  
***Saldula galapagosana***  
*Saldula lomata*  
*Saldula pallipes pallipes*  
***Saldula penningtoni***  
***Saldula scitula***

#### OCEANIAN

11(8)

*Pentacora sonneveldti*  
 Solomon Islands  
***Saldula gilloglyi***  
 Fiji

***Saldula inoana***  
 Fiji  
***Saldula tahitiensis***  
 French Polynesia  
***Saldula guamensis***  
 Guam  
*Saldula niveolimbata*  
 Guam, New Caledonia, Palau, Samoa  
***Saldula palauana***  
 Guam, Micronesia, Palau  
***Saldula parens***  
 Solomon Islands  
***Saldula solomonensis***  
 Solomon Islands  
*Salduncula swezeyi*  
 Guam, Micronesia  
***Salduncula woodwardi***  
 Samoa

**ORIENTAL**

37(19)  
*Chartoscirta elegantula longicornis*  
***Chiloxanthus sangchana***  
***Macrosaldula indica***  
*Macrosaldula nivalis*  
*Micracanthia minor*  
*Micracanthia ornatula*  
***Orthosaldula flavonigra***  
***Orthosaldula rubroalata***  
***Orthosaldula stysi***  
***Pentacora malayensis***  
*Pentacora sonneveldti*  
*Rupisalda austrosinica*  
***Rupisalda championi***  
***Rupisalda edita***  
***Rupisalda fletcheri***  
***Rupisalda pusana***  
***Rupisalda subsolans***  
***Rupisalda thailandana***  
***Rupisalda uichancoi***  
*Saldoida armata*  
*Saldula bengali*  
*Saldula burmanica*  
***Saldula javanica***  
*Saldula niveolimbata*  
*Saldula opacula*  
*Saldula orthochila*  
*Saldula pallipes pallipes*  
*Saldula palustris*  
*Saldula pilosella pilosella*  
*Saldula reticollis*  
***Saldula sonneveldti***  
*Saldula taiwanensis*  
*Saldula xanthochila*  
***Salduncula carmencitae***  
***Salduncula fasciata***  
***Salduncula murphyi***  
***Salduncula palawanensis***

**PALEARCTIC**

89(36)  
*Calacanthia angulosa*  
***Calacanthia apicola***  
*Calacanthia trybomi*  
*Chartoscirta cincta cincta*  
*Chartoscirta cocksii*  
***Chartoscirta dilutipennis***  
*Chartoscirta elegantula elegantula*  
*Chartoscirta elegantula longicornis*  
*Chartoscirta geminata*  
***Chiloxanthus arcticus***  
*Chiloxanthus corporaali*  
*Chiloxanthus kozlovi*  
*Chiloxanthus pilosus*  
***Chiloxanthus poloi***  
*Chiloxanthus stellatus stellatus*  
***Chiloxanthus stellatus suturalis***  
***Halosalda coracina***  
*Halosalda halophila*  
*Halosalda lateralis*  
***Macrosaldula bogdashana***  
***Macrosaldula clavalis***  
***Macrosaldula heijningeni***  
*Macrosaldula jakowleffi*  
***Macrosaldula kaszabi***  
***Macrosaldula kerzhneri***  
***Macrosaldula koktshetavica***  
*Macrosaldula koreana*  
***Macrosaldula madonica***  
*Macrosaldula miyamotoi*  
***Macrosaldula mongolica***  
*Macrosaldula nivalis*  
***Macrosaldula oblonga acetabularis***  
*Macrosaldula oblonga oblonga*  
*Macrosaldula rivularia*  
***Macrosaldula roborowskii***  
*Macrosaldula scotica*  
***Macrosaldula simulans***  
***Macrosaldula tadhika***  
*Macrosaldula variabilis*  
*Macrosaldula violacea*  
***Micracanthia ambigua***  
*Micracanthia bergrothi*  
***Micracanthia fennica***  
*Micracanthia hasegawai*  
***Micracanthia marginalis***  
*Micracanthia ornatula*  
*Orthophrys pygmaea*  
*Pentacora sphaelata*  
***Salda adriatica***  
***Salda exigua***  
***Salda henschii***  
*Salda kiritshenkoi*  
*Salda littoralis*  
***Salda micans***  
*Salda morio*  
***Salda muelleri***



*Salda sahlbergi*  
*Salda splendens*  
*Saldula amplicollis*  
*Saldula arenicola arenicola*  
***Saldula arenicola ussurica***  
*Saldula c-album*  
***Saldula connemarae***  
*Saldula fucicola*  
*Saldula kurentzovi*  
***Saldula lindskogi***  
***Saldula mariae***  
*Saldula melanoscela*  
*Saldula misis*  
***Saldula nitidula***  
*Saldula nobilis*  
*Saldula opacula*  
*Saldula orthochila*  
*Saldula pallipes dimidiata*  
*Saldula pallipes pallipes*  
*Saldula palustris*  
***Saldula pilosella hirsuta***  
*Saldula pilosella pilosella*  
*Saldula recticollis*  
*Saldula saltatoria*  
***Saldula sardoa***  
*Saldula setulosa*  
***Saldula sibiricola***  
*Saldula xanthochila*  
***Teloleuca altaica***  
*Teloleuca bifasciata*  
***Teloleuca branczikii***  
*Teloleuca kusnezovi*  
*Teloleuca pellucens*

#### PANAMANIAN

25(8)

***Micracanthia drakei***  
*Micracanthia humilis*  
*Micracanthia husseyi*  
*Micracanthia quadrimaculata*  
*Micracanthia utahensis*  
***Paralosalda innova***  
*Pentacora hirta*  
*Pentacora signoreti*  
*Pentacora sphaelata*  
*Pseudosaldula bruesi*  
***Rupisalda abdominalis***  
***Rupisalda cremnosa***  
*Rupisalda dewsi*  
***Rupisalda petricola***  
*Rupisalda saxicola*  
***Rupisalda sulcata***  
*Rupisalda ventralis*  
*Saldula coxalis*  
*Saldula dentulata*  
***Saldula laevis***  
*Saldula lomata*  
*Saldula pallipes pallipes*

*Saldula saltatoria*  
*Saldula sulcicollis*  
***Saldula zena***

#### SAHARO-ARABIAN

36(7)

*Chartoscirta cincta cincta*  
*Chartoscirta cocksii*  
*Chartoscirta elegantula elegantula*  
*Chartoscirta elegantula longicornis*  
*Chartoscirta geminata*  
***Chartoscirta laticeps***  
***Chiloxanthus alticola***  
*Halosalda halophila*  
*Halosalda lateralis*  
***Macrosaldula inornata***  
*Macrosaldula jakowleffi*  
*Macrosaldula nivalis*  
*Macrosaldula scotica*  
*Macrosaldula variabilis*  
*Micracanthia minor*  
*Micracanthia ornatula*  
*Orthophrys pygmaea*  
*Saldula amplicollis*  
*Saldula arenicola arenicola*  
*Saldula c-album*  
***Saldula inconspicua***  
***Saldula lindbergi***  
***Saldula luteola***  
*Saldula melanoscela*  
*Saldula misis*  
*Saldula opacula*  
*Saldula orthochila*  
*Saldula pallipes dimidiata*  
*Saldula pallipes pallipes*  
*Saldula palustris*  
***Saldula pericarti***  
*Saldula pilosella pilosella*  
*Saldula saltatoria*  
*Saldula setulosa*  
*Saldula xanthochila*  
*Pentacora sphaelata*

#### SINO-JAPANESE

44(9)

*Calacanthia angulosa*  
***Calacanthia grandis***  
***Calacanthia josifovi***  
***Calacanthia sichuanica***  
***Calacanthia tibetana***  
*Chartoscirta elegantula longicornis*  
*Chiloxanthus corporaali*  
*Chiloxanthus kozlovi*  
***Chiloxanthus lama***  
*Halosalda lateralis*  
*Macrosaldula koreana*  
*Macrosaldula miyamotoi*  
*Macrosaldula oblonga oblonga*

***Macrosaldula shikokuana***  
*Macrosaldula violacea*  
*Micracanthia bergrothi*  
***Micracanthia boninana***  
*Micracanthia hasegawai*  
*Micracanthia ornatula*  
*Rupisalda austrosinica*  
*Salda kiritshenkoi*  
*Salda littoralis*  
*Salda morio*  
*Salda splendens*  
*Saldoida armata*  
*Saldula arenicola arenicola*  
*Saldula bengali*  
*Saldula burmanica*  
*Saldula fucicola*

*Saldula kurentzovi*  
*Saldula melanoscela*  
*Saldula nobilis*  
*Saldula opacula*  
*Saldula orthochila*  
*Saldula pallipes pallipes*  
*Saldula palustris*  
*Saldula pilosella pilosella*  
*Saldula recticollis*  
*Saldula saltatoria*  
*Saldula taiwanensis*  
*Saldula xanthochila*  
***Salduncula decempunctata***  
***Sinosalda insolita***  
*Teloleuca kusnezowi*

## Acknowledgements

This research was partly funded by the Characterising Land Biota research portfolio through Core funding for Crown Research Institutes from the New Zealand Ministry of Business, Innovation and Employment's Science and Innovation Group. The authors are grateful to J. Blackman (Auckland) and E. Doonerwind (Lincoln) from Landcare Research's library services who provided access to key overseas literature for this project.

## References

- Aukema, B., Rieger, C. & Rabitsch, W. (Eds.) (2013) *Catalogue of the Heteroptera of the Palaearctic Region. VI. Supplement*. The Netherlands Entomological Society, Amsterdam, xxiii + 629 pp.
- Cassis, G., Namyatove, A., Tataric, N. & Symonds, C. (2012) *Suborder Heteroptera. Australian Faunal Directory. Australian Biological Resources Study, Canberra*. Available from: <https://biodiversity.org.au/afd/taxa/HETEROPTERA;HEMIPTERA> (accessed 9 May 2018)
- Chen, P.-P. (1987) Three species of saldid bugs recorded as new to China (Hemiptera: Saldidae). *Entomotaxonomia*, 9 (2), 163–166.
- Chen, P.-P. & Lindsog, P. (1994). A namelist of Leptopodomorpha from China (Heteroptera). *Chinese Journal of Entomology*, 14 (3), 405–409.
- Chen, P.-P. & Zheng, L.-Y. (1987) A new species and some new records of shore bugs from China (Hemiptera: Saldidae). *Acta Zootaxonomica Sinica*, 12 (4), 393–397.
- Cobben, R.H. (1986) New shorebugs from Solomon Islands, Thailand, India and South America (Heteroptera, Saldidae). *Annales de la Société entomologique de France, New Series*, 22 (2), 223–233.
- Cobben, R.H. (1987a) New African Leptopodomorpha (Heteroptera), with an annotated checklist of Saldidae from Africa. 1. New species of the genus *Saldula* (Saldidae). *Revue de Zoologie Africaine*, 1986, 100, 399–421.
- Cobben, R.H. (1987b) New African Leptopodomorpha (Heteroptera: Saldidae, Omaniidae, Leptopodidae), with an annotated checklist of Saldidae from Africa. 2. New taxa of Saldidae (except the genus *Saldula*), Omaniidae, Leptopodidae, and a checklist of African shorebugs. *Revue de Zoologie Africaine*, 101 (1), 3–30.
- Couteyen, S. (2004) Premières observations de deux nouvelles espèces de punaises ripicoles à la Réunion (Heteroptera, Saldidae). *Entomologiste, Paris*, 60 (6), 247–248.
- Drake, C.J. & Hoberlandt, L. (1951) Catalogue of genera and species of Saldidae (Hemiptera). *Acta Entomologica Musei Nationalis Pragae*, 1950, 26 (376), 1–12.
- Fent, M., Kment, P., Çamur-Elipek, B. & Kirgiz, T. (2011) Annotated catalogue of Enicocephalomorpha, Dipsocoromorpha, Nepomorpha, Gerromorpha, and Leptopodomorpha (Hemiptera: Heteroptera) of Turkey, with new records. *Zootaxa*, 2856, 1–84.  
<https://doi.org/10.11646/zootaxa.2856.1.1>
- Froeschner, R.C. (1986) Restoration of the species name *Salda coriacea* Uhler, 1872 (Hemiptera: Saldidae). *Proceedings of the Entomological Society of Washington*, 88 (2), 394.
- Gapud, V.P. (1986) Philippine Water Bugs. *Guide to Philippine Flora and Fauna*, 8, 1–47.

- Ghahari, H., Moulet, P., Ostovan, H. & Linnavuori, R.E. (2013) An annotated catalog of the Iranian Dipsocoromorpha, Enicocephalomorpha, Gerromorpha, Leptopodomorpha and Nepomorpha (Hemiptera: Heteroptera). *Zootaxa*, 3641 (4), 301–342. <https://doi.org/10.11646/zootaxa.3641.4.1>
- Hayashi, M. & Miyamoto, S. (2007) Occurrence of *Saldula taiwanensis* (Heteroptera, Saldidae) in Iriomote, S. Ryukyus. *Japanese Journal of Systematic Entomology*, 13(1), 67–68.
- Holt, B.G., Lessard, J.-P., Borregaard, M.K., Fritz, S.A., Araújo, M.B., Dimitrov, D., Fabre, P.-H., Graham, C.H., Graves, G.R., Jönsson, K.A., Nogués-Bravo, D., Wang, Z., Whittaker, R.J., Fjeldså, J. & Rahbek, C. (2013) An Update of Wallace's Zoogeographic Regions of the World. *Science*, 339 (6115), 74–78. <https://doi.org/10.1126/science.1228282>
- Kerzhner, I.M. & Vinokurov, N.N. (2004) *Acanthia stellata* Curtis, 1835 from Great Britain qualified as nomen oblitum to protect the names *Chiloxanthus stellatus* (Curtis, 1835) and *Saldula c-album* (Fieber, 1859) (Heteroptera: Saldidae). *Zoosystematica Rossica*, 13 (1), 15–16.
- Larivière, M.-C. & Larochele, A. (2015) *Zemacrosaldula*, a new genus of Saldidae (Hemiptera: Heteroptera) from New Zealand: taxonomy, geographic distribution, and biology. *Zootaxa*, 3955 (2), 245–266. <https://doi.org/10.11646/zootaxa.3955.2.4>
- Larivière, M.-C. & Larochele, A. (2016) *Aoteasalda* and *Kiwisaldula*, two new genera of Saldidae (Hemiptera: Heteroptera), with a key to New Zealand genera and a new synonymy in *Zemacrosaldula*. *Zootaxa*, 4085 (4), 451–480. <https://doi.org/10.11646/zootaxa.4085.4.1>
- Larivière, M.-C. & Larochele, A. (2017) *Kiwisaldula waiho* and *K. hurumui*, two new species of Saldidae (Hemiptera: Heteroptera) from the South Island of New Zealand, with redescriptions of *K. butleri* (White) and *K. laelaps* (White). *Zootaxa*, 4341 (1), 41–55. <https://doi.org/10.11646/zootaxa.4341.1.3>
- Larivière, M.-C. & Larochele, A. (2018) *Kiwisaldula* (Hemiptera: Heteroptera: Saldidae) from the South Island of New Zealand: new species and identification key. *Zootaxa*, 4514 (2), 151–166. <https://doi.org/10.11646/zootaxa.4514.2.1>
- Lindskog, P. (1991) Taxonomy and distribution of boreomontane shore bugs *Salda sahlbergi* and *S. henschii* (Heteroptera: Saldidae). *Entomologisk Tidskrift*, 112 (1–2), 1–18.
- Lindskog, P. (1995) Infraorder Leptopodomorpha. In: Auckema, B. & Rieger, C. (Eds.), *Catalogue of Palearctic Heteroptera. Vol. 1. General introduction: Enicocephalomorpha & Dipsocoromorpha, Nepomorpha, Gerromorpha & Leptopodomorpha*. Netherlands Entomological Society, Amsterdam, pp. 115–141. <https://doi.org/10.1111/j.1463-6409.1975.tb00728.x>
- Lindskog, P. & Polhemus, J.T. (1992) Taxonomy of *Saldula*: revised genus and species group definition, and a new species of the *pallipes* group from Tunisia (Heteroptera: Saldidae). *Entomologica Scandinavica*, 23 (1), 63–88. <https://doi.org/10.1163/187631292X00038>
- Linnavuori, R.E. (2009) Studies on the Nepomorpha, Gerromorpha, Leptopodomorpha, and Miridae excluding Phylini (Hemiptera: Heteroptera) of Khuzestan and the adjacent provinces of Iran. *Acta Entomologica Musei Nationalis Pragae*, 49 (1), 1–32.
- Linnavuori, R.E., Kment, P. & Carapezza, A. (2011) Order Hemiptera, suborder Heteroptera, infraorders Nepomorpha, Gerromorpha, and Leptopodomorpha. In: van Harten, A. (Ed.), *Arthropod Fauna of the UAE 4*. Dar Al Ummah Printing, Publishing, Distribution and Advertising, Abu Dhabi, pp. 72–107.
- Luo, Z. & Vinokurov, N.N. (2011) A new species of the genus *Macrosaldula* Leston et Southwood, 1964 (Hemiptera: Heteroptera: Saldidae) from Northwestern China. *Zootaxa*, 2909 (1), 57–63. <https://doi.org/10.11646/zootaxa.2909.1.6>
- Melo, M.C. (2009) Biodiversidad de Heteroptera (Hemiptera) acuáticas y semiacuáticas de la Patagonia argentina. *Revista de la Sociedad Entomológica Argentina*, 66 (1–2), 177–185.
- Miyamoto, S. & Hayashi, M. (1998) New records of aquatic Heteroptera from Japan. *Japanese Journal of Systematic Entomology*, 4 (2), 321–323.
- Péricart, J. (1990) Hémiptères Saldidae et Leptopodidae d'Europe occidentale et du Maghreb. *Faune de France*, 77, 1–238.
- Polhemus, J.T. (1981) African Leptopodomorpha (Hemiptera: Heteroptera): a checklist and descriptions of new taxa. *Annals of the Natal Museum*, 24, 603–619.
- Polhemus, J.T. (1985) *Shore bugs (Heteroptera, Hemiptera: Saldidae). A world overview and taxonomy of Middle American forms*. The Different Drummer, Englewood, Colorado, 252 pp.
- Polhemus, J.T. (1988) Family Saldidae Amyot and Serville, 1843. The Shore Bugs. In: Henry, T.J. & Froeschner, R.C. (Eds), *Catalog of the Heteroptera, or true bugs, of Canada and the continental United States*. E.J. Brill, Leiden, New York, København and Köln, pp. 665–681.
- Polhemus, J.T. (1991a) Nomenclatural notes on aquatic and semiaquatic Heteroptera. *Journal of the Kansas Entomological Society*, 64 (4), 438–443.
- Polhemus, J.T. (1991b) Three new species of *Salduncula* Brown from the Malay Archipelago, with a key to the known species (Heteroptera: Saldidae). *Raffles Bulletin of Zoology*, 39 (1), 153–160.
- Polhemus, J.T. (1993) A new species of *Pentacora* (Heteroptera: Saldidae) from the Ouachita Mountains, Arkansas. *Journal of the Kansas Entomological Society*, 66 (4), 455–457.
- Polhemus, J.T. & Polhemus, D.A. (1991) A revision of the Leptopodomorpha (Heteroptera) of Madagascar and nearby Indian

- Ocean islands. *Journal of the New York Entomological Society*, 99 (3), 496–526.
- Polhemus, J.T. & Polhemus, D.A. (1999) Introduction to the Leptopodomorpha of Thailand and adjacent countries. *Amemboa*, 3, 14–21.
- Polhemus, J.T. & Polhemus, D.A. (2006) A new Fijian species of *Saldula* Van Duzee (Heteroptera: Saldidae) from the interior of Viti Levu. *Bishop Museum Occasional Papers*, 90, 43–50.
- Polhemus, J.T. & Polhemus, D.A. (2012) Guide to the aquatic Heteroptera of Singapore and peninsular Malaysia.VIII. Leptopodomorpha, Families Saldidae, Leptopodidae, and Omaniidae. *Raffles Bulletin of Zoology*, 60 (2), 329–341.
- Schuh, R.T., Galil, B. & Polhemus, J.T. (1987) Catalog and bibliography of Leptopodomorpha (Heteroptera). *Bulletin of the American Museum of Natural History*, 185 (3), 243–406.
- Schuh, R.T. & Polhemus, J.T. (2009) Revision and analysis of *Pseudosaldula* Cobben (Insecta: Hemiptera: Saldidae): a group with a classic Andean distribution. *Bulletin of the American Museum of Natural History*, 323, 1–102.  
<https://doi.org/10.1206/323.1>
- Tomokuni, M. (1992) A misidentified *Salda* Saldidae from Japan. *Rostraria*, 42, 29.
- Vinokurov, N.N. (2004a) New species of genus *Saldula* V.D. (Heteroptera, Saldidae) from Middle Asia and south Kazakhstan. *Evrziatskii Entomologicheskii Zhurnal*, 3 (1), 29–31.
- Vinokurov, N.N. (2004b) Bugs of the genus *Saldula* V.D., 1914 (Heteroptera, Saldidae) in Russia and adjacent countries. *Evrziatskii Entomologicheskii Zhurnal*, 3 (2), 101–118.
- Vinokurov, N.N. (2004c) A new genus and species of the family Saldidae from China (Heteroptera). *Zoosystematica Rossica*, 13 (1), 9–13.
- Vinokurov, N.N. (2005) A Review of the Shore-Bug Genus *Chiloxanthus* Reut. (Heteroptera, Saldidae) in the Fauna of Russia and Adjacent Countries. *Entomologicheskoe Obozrenie*, 84 (1), 46–61. [English text: *Entomological Review*, 85 (2), 118–130.]
- Vinokurov, N.N. (2006a) New records of Heteroptera from the south of the Russian Far East. *Russian Entomological Journal*, 15 (2), 121.
- Vinokurov, N.N. (2006b) Type specimens of Saldidae (Heteroptera) in the collection of the Zoological Institute of the Russian Academy of Sciences, St. Petersburg. *Denisia*, 19, 703–705.
- Vinokurov, N.N. (2007) Species of the genus *Chartoscirta* Stål (Heteroptera, Saldidae) of Russia and adjacent countries. *Evrziatskii Entomologicheskii Zhurnal*, 6 (1), 51–56.
- Vinokurov, N.N. (2008) *Calacanthia josifovi* nov. sp., a new species of shore bugs (Heteroptera, Saldidae) from Xizang, China. In: Grozeva, S. & Simov, N. (Eds.), *Advances in Heteroptera research: Festschrift in honor of 80th anniversary of Michail Josifov. Pensoft Series Faunistica*, 82, pp. 385–389
- Vinokurov, N.N. (2009) A review of species of the genus *Teloleuca* (Heteroptera, Saldidae) in the fauna of Russia and adjacent territories. *Zoologicheskii Zhurnal*, 88 (10), 1189–1200. [English text: *Entomological Review*, 89 (9), 1092–1103]
- Vinokurov, N.N. (2010) Species of the Genus *Salda* F. (Heteroptera, Saldidae) of the Fauna of Russia and Adjacent Territories. *Entomologicheskoe Obozrenie*, 89 (2), 423–437. [English text: *Entomological Review*, 90 (6), 727–240]
- Vinokurov, N.N. (2012) New and little known species of the family Saldidae (Heteroptera) from India and adjacent countries. *Entomologicheskoe Obozrenie*, 91 (2), 298–309 + 460. [English text: *Entomological Review*, 92 (8), 851–860]
- Vinokurov, N.N. (2013) Validation of *Macrosaldula indica* Vinokurov (Hemiptera: Heteroptera: Saldidae). *Acta Entomologica Musei Nationalis Pragae*, 53 (1), 58.
- Vinokurov, N.N. (2014a) Revision of the Genus *Macrosaldula* Southwood et Leston, 1959 (Heteroptera, Saldidae) of the Fauna of Russia and Adjacent Countries. *Entomologicheskoe Obozrenie*, 93 (1), 151–173. [English text: *Entomological Review*, 94 (7), 981–999.]
- Vinokurov, N.N. (2014b) On the Distribution of Species of the Genus *Halosalda* Reuter (Heteroptera, Saldidae) in the Territory of Russia and Adjacent Countries. *Entomologicheskoe Obozrenie*, 93 (3), 653–661. [English text: *Entomological Review*, 94 (9), 1329–1336.]
- Vinokurov, N.N. (2015) A new species and new data on distribution of the shore bugs of China (Hemiptera: Heteroptera: Saldidae). *Acta Entomologica Musei Nationalis Pragae*, 55 (2), 569–584.
- Vinokurov, N.N., Cai, W. & Chen, P.-P. (2018) Synopsis of the shore bugs of China (Hemiptera: Heteroptera: Leptopodomorpha: Saldidae). *Zootaxa*, 4486 (2), 129–145.  
<https://doi.org/10.11646/zootaxa.4486.2.3>
- Vinokurov, N.N. & Kment, P. (2015) Contribution to the faunistics of shore bugs (Hemiptera: Heteroptera: Leptopodomorpha) in the Palaearctic Region and the Himalayas. *Zootaxa*, 4028 (3), 367–387.  
<https://doi.org/10.11646/zootaxa.4028.3.3>
- Vinokurov, N.N., Luo, Z. & Lü, Z. (2012) Studies of true bugs of Xinjiang, western China. I. Leptopodomorpha: shore bugs (Hemiptera: Heteroptera: Saldidae). *Zootaxa*, 3336, 51–61.
- Zettel, H. & Gapud, V.P. (2008) Notes on the endemic Philippine genus *Orthosaldula* (Hemiptera: Heteroptera: Saldidae), with descriptions of two new species. *Acta Entomologica Musei Nationalis Pragae*, 48 (2), 319–329.
- Zettel, H., Pangantihon, C.V. & Freitag, H. (2013) A new intertidal shore bug (Heteroptera: Saldidae) from the Philippines. *Zeitschrift der Arbeitsgemeinschaft Österreichischer Entomologen*, 65, 81–86.