

GENERAL CATALOGUE
OF THE
HEMIPTERA

W. E. CHINA, *General Editor*
H. M. PARSHLEY, *Managing Editor*

FASCICLE IV
FULGOROIDEA

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KINNARIDAE

BY

Z. P. METCALF, D.Sc.

College of Agriculture and Engineering of the University of North Carolina

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FULGOROIDEA

PART 6

MEENOPLIDAE

BY

Z. P. METCALF

MEMORANDUM

TO :

FROM :

DATE :

INTRODUCTION

The present catalogue of the Family Meenoplidae forms Part 6 of Fascicle IV of the General Catalogue of the Hemiptera of the World, which is devoted to the Superfamily Fulgoroidea.

CHARACTERS OF THE FAMILY

This is another small family of fulgorids, containing 9 genera and 53 species. This family has affinities with the Cixiidae and was formerly included as a subfamily of that family. However, there are a number of characters which distinguish it at once from the Cixiidae, and for the present, at least, this family should be kept separate. All the species are moderately small insects, with the body strongly compressed and the tegmina tectiform. The head is usually small, with the vertex and frons usually broad and the lateral carinae strongly elevated. The antennae are generally short and simple. The last segment of the labium is elongate. The median ocellus is generally present. The thorax is usually large, with the carinae indistinct or wanting. The tegulae are large, the pronotum is short, broader than the head, and the mesonotum is broader than the pronotum. The tegmina are always macropterous and normally are held vertically in repose. The venation is in general cixiid-like, with the basal costal area more or less expanded. Subcosta and radius are typically united for more than half their lengths. Radius and media are usually simple, but cubitus is complex, generally with supernumerary veins. One or both claval veins are typically granulate. The abdomen is compressed, with the sixth, seventh and eighth tergites bearing wax-secreting pores. The male genitalia superficially resemble the genitalia in many derbids, with the genital plates large and complex. The female genitalia are incomplete, the ovipositor being absent or greatly reduced.

CLASSIFICATION ADOPTED

The family is divided into two subfamilies as proposed by Muir in 1930.

Family **MEENOPLIDAE**

Subfamily **NISIINAE**

Subfamily **MEENOPLINAE**

HISTORICAL RÉSUMÉ

This family was established by Fieber in 1866 to include a single species from Greece. Since that time the list of genera and species has been increased by the work of Kirkaldy and Muir principally in the Pacific area; by Distant, Muir, and Jacobi in the Ethiopian Region; by Distant and Melichar

in India; by Kirkaldy in Australia; and by Matsumura in Formosa and Japan. In so far as is now known the species are confined to the Eastern Hemisphere.

Family MEENOPLIDAE Fieber

- Meenoplidae* 1872 Fieber, Katalog europäischer Cicadinen 1872: 3. [Listed.]
- Kermesiinae* 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 425. *Subfamily*. [Key.]
- Nisiinae* 1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 163. *Subfamily*. [Notes.]
- Meenoplinae* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. *Subfamily*. [List of genera.]
- 1922 Kershaw and Muir, Ann. Ent. Soc. America 15: 209. [Morphology of genitalia.]
- 1923 Muir, Philippine Jour. Sci. 22: 483, 484. [Notes.]
- 1923 Muir, Proc. Hawaiian Ent. Soc. 5: 222. *Subfamily*. [Key.] :244, 246; Pl. VIII. [Phylogeny, illustrated.]
- Meenoplinae* 1924 Muir, Canadian Ent. 56: 33. [Note.]
- Meenoplidae* 1925 Handlirsch, Schröder's Handbuch der Entomologie 3 (9): 1107. [Included in Subfamily *Cixiinae*.]
- 1925 Muir, Pan-Pacific Ent. 1: 97. [List of genera.] :98. [Phylogeny, taxonomy.] :110. [Key to genera.] :158. [Described.]
- Meenoplinae* 1925 Muir, Trans. Ent. Soc. London 1924: 466. [Listed.]
- Meenoplidae* 1926 Muir, Jour. Malayan Br. R. Asiatic Soc. 4: 397. [Listed.]
- 1927 Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1 (2): 2. [Listed.] :15. [Notes.]
- 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 197. *Family*. [Described, key to genera.]
- Kermesiinae* 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. [Key.]
- Meenoplinae* 1929 Haupt, Proc. Int. Zool. Congr. 10: 1073. [Taxonomy.]
- 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. *Subfamily*. [Key.]
- Meenoplidae* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 464. [Key.] :470. [Described, key to subfamilies and genera.]
- 1930 Muir, Treubia 12: 34. [Notes.]
- 1931 Muir, Rec. Australian Mus. 18: 77. *Family*. [New species from New Hebrides and Espiritu Santo.]
- 1932 Brues and Melander, Bull. Mus. Comp. Zool. Harvard Coll. 73: 119. [Key.]
- 1932 Esaki, Lecture on leafhoppers 1932: 2, 7. [Listed.]
- Meenophidae* [sic] 1934 Anonymous, List of insects on sugar cane in Formosa 1934: 27. [Listed.]
- Meenoplidae* 1934 Muir, Ann. Mag. Nat. Hist. (10) 14: 564. [A new species from Uganda.]
- Meenopliidae* [sic] 1935 China, Trop. Binn. 6: 305. *Family*. [Listed.]
- Meenoplidae* 1937 Esaki and Hashimoto, Noj. Min. Agr. and For. 127: 3. [Listed.]
- 1937 Shiraki, [Publ. Bur. Ind. Formosa] 801: 101. [Notes.]
- 1938 Metcalf, Bull. Mus. Comp. Zool. Harvard Coll. 82: 281. [Key.]
- Meenoplinae* 1939 Metcalf, Jour. Soc. Bibl. Nat. Hist. 1: 247. [Listed.]
- Meenoplidae* 1942 da Costa Lima, Insetos do Brasil 3: 39. [Key.]

Subfamily NISIINAE Muir

- Nisiini* 1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 10. *Tribe*. [Listed.]
- Kermesiinae* 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. *Subfamily*. [Key.]
- Nisiinae* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470. [Key.] :470. *Subfamily*. [Key to genera.]

Phaconeura

Genus PHACONEURA Kirkaldy

Orthotype *Phaconeura froggatti* [n. sp.] 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 427.

Type *Phaconeura froggatti* 1907 Distant, Ann. Mag. Nat. Hist. (7) 19: 411.

Type *Phaconeura froggatti* 1916 Distant, Fauna of British India 6: 72.

Type *Phaconeura froggatti* 1925 Muir, Pan-Pacific Ent. 1: 103.

Phaconeura 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 427. [gen. n.] :426. [Key.]

1907 Distant, Ann. Mag. Nat. Hist. (7) 19: 411. [Listed.]

1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 163. [Key.]

1912 Waterhouse, Index Zoologicus No. II. 1912: 225. [Listed.]

1913 Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 29. [Notes, comparative note.] :80. [Key.] :81. [Listed.]

1914 Melichar, Notes Leyden Mus. 36: 99. [Comparative note.]

1916 Distant, Fauna of British India 6: 72. [Described.]

1920 Bergroth, Arkiv Zool. 12: 19, 20, 21. [Comparative note.]

1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed, comparative note.]

1925 Hesse, Ann. South African Mus. 23: 157. [Comparative note.]

1925 Muir, Pan-Pacific Ent. 1: 103. [Listed.] :110. [Key.]

1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 197. [Key.]

1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470. [Key.]

1934 Schulze, Kükenthal and Heider, Nomenclator Animalium 4 (19): 2606. [Listed.]

1940 Neave, Nomenclator Zoologicus 3: 685. [Listed.]

fletcheri Kirkaldy

1908 *Phaconeura fletcheri* Kirkaldy, Ann. Soc. Ent. Belgique 52: 13 (6). Ceylon¹
[n. sp.]¹ Coorg²

1916 *Phaconeura fletcheri* Distant, Fauna of British India 6: 72; Fig. 54.
[Described, illustrated.]¹

1920 *Paranigrus fletcheri* Bergroth, Arkiv Zool. 12: 21. [Notes.]¹ Equals *Phaconeura fletcheri* Kirk.

1934 *Anigrus fletcheri* Chatterjee and Bose, Indian For. Rec. 19 (8): 6. [Listed.]²

froggatti Kirkaldy

1906 *Phaconeura froggatti* Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 427; Pl. XXIX, Figs. 3, 4. [n. sp., illustrated.]^{1,2} Australia¹
:428. [Comparative note.] :314. [Listed.] New South Wales²

1907 *Phaconeura froggatti* Distant, Ann. Mag. Nat. Hist. (7) 19: 411.
[Note.]

1908 *Phaconeura froggatti* Kirkaldy, Ann. Soc. Ent. Belgique 52: 13 (6). [Comparative note.]

1916 *Phaconeura froggatti* Distant, Fauna of British India 6: 72. [Comparative note.]¹

1920 *Phaconeura froggatti* Bergroth, Arkiv Zool. 12: 20. [Comparative note.]¹

1923 *Phaconura* [sic] *froggatti* Muir, Proc. Hawaiian Ent. Soc. 5: 237; Pl. IV, Fig. 6.
[Illustrated.]

laratica Muir

1913 *Phaconeura laratica* Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 81. [n. sp.]¹ Larat Island¹

1921 *Phaconeura laratica* Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Comparative note.]

nitida Bierman

- 1910 *Nisia nitida* Bierman, Notes Leyden Mus. 33: 33; Pl. 2, Fig. 14. Java¹
[n. sp., illustrated.]¹
- 1914 *Phaconeura nitida* Melichar, Notes Leyden Mus. 36: 99. [Listed.]¹ Equals *Nisia nitida* Bierm.
- 1935 *Nisia nitida* China, Trop. Binn. 6: 305. [Listed.]¹

pallida Kirkaldy

- 1906 *Phaconeura pallida* Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Queensland¹
Div. Ent. 1 (9): 428. [n. sp.]¹ :314. [Listed.]
- 1914 *Ph[aconeura] pallida* Melichar, Notes Leyden Mus. 36: 99. [Comparative note.]¹

Genus **NISIA** Melichar

Haplotype *Meenoplus atrovenosus* 1903 Melichar, Homopteren-Fauna von Ceylon. 1903: 53.

Type *Nisia atrovenosa* 1906 Distant, Fauna of British India 3: 309.

Type *Nisia atrovenosa* 1912 Oshanin, Katalog paläarktischen Hemiptera 1912: 121.

Type *Nisia atrovenosa* 1920 Bergroth, Arkiv Zool. 12: 21.

Type *Meenoplus atrovenosus* 1925 Muir, Pan-Pacific Ent. 1: 102.

Type *Meenoplus atrovenosus* 1925 Muir, Trans. Ent. Soc. London 1924: 466.

Type *Nisia atrovenosa* 1926 Schmidt, Treubia 7: 238.

Type *Nisia atrovenosa* 1928 Schmidt, Treubia 10: 131.

- Nisia* 1903 Melichar, Homopteren-Fauna von Ceylon 1903: 53. [gen. n.] :223. [Listed.]
- 1906 Distant, Fauna of British India 3: 296. [Key.] :309. [Described.]
- 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 426. [Key.] :427. [Listed.] :427, 428. [Comparative notes.]
- 1907 Distant, Ann. Mag. Nat. Hist. (7) 19: 411. [Notes.]
- 1907 Distant, Insecta Transvaaliensia 8: 197. [Comparative note.]
- 1907 Horváth, Ann. Mus. Nat. Hungarici 5: 322. [Listed.]
- 1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 163. [Key, notes.] :165. [Listed, comparative note.] :96. [Listed.]
- 1908 Oshanin, Ann. Mus. Zool. St. Petersburg 13: 447. [Listed, catalogue of Palearctic species.]
- 1910 Bierman, Notes Leyden Mus. 33: 31. [Listed.]
- 1912 Oshanin, Katalog paläarktischen Hemiptera 1912: 121. [Listed.]
- 1912 Waterhouse, Index Zoologicus No. II. 1912: 193. [Listed.]
- 1913 Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 29, 31. [Notes.] :81. [Key, listed, comparative note.]
- 1914 Matsumura, Ann. Mus. Nat. Hungarici 12: 283. [Comparative note.] :287. [Note.]
- 1914 Melichar, Notes Leyden Mus. 36: 99. [Comparative note.]
- 1915 Schumacher, Mitt. Zool. Mus. Berlin 8: 124. [Listed.]
- 1915 Schumacher, Suppl. Ent. 4: 134. [Listed.]
- 1916 Distant, Fauna of British India 6: 71. [Notes.] :72. [Comparative note.]
- 1917 Distant, Trans. Linn. Soc. London Zool. 17: 291. [Notes.] :285. [Ecology.]
- 1917 Muir, Philippine Jour. Sci. 12: 52. [Taxonomy.]
- Nisi* [sic] 1918 Muir, Ent. Monthly Mag. 54: 243. [Listed.]
- Nisia* 1920 Bergroth, Arkiv Zool. 12: 21. [Note.]
- 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed.] :569, 570. [Comparative note.]

Nisia

- 1924 Haupt, Mem. Soc. Ent. Italiana 3: 233. [Comparative note.]
 1925 Muir, Pan-Pacific Ent. 1: 102. [Listed.] :110. [Key.] :158. Equals *Robigalia* Dist. [error.]
 1924 Muir, Trans. Ent. Soc. London 1924: 466. [Listed.]
 1925 Singh-Pruthi, Trans. Ent. Soc. London 1925: 226. [Comparative note.]
 1926 Muir, Jour. Malayan Br. R. Asiatic Soc. 4: 397. [Listed.]
 1926 Schmidt, Treubia 7: 238. [Listed.]
 1927 Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1 (2): 16. [Listed.]
 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 197. [Key.] :198. [Listed.]
 1928 Schmidt, Treubia 10: 131. [Listed.]
 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. [Listed.]
 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
 1930 Muir, Treubia 12: 34. [Notes.]
 1933 Schulze, Kükenthal and Heider, Nomenclator Animalium 4 (17): 2261. [Listed.]
 1935 China, Trop. Binn. 6: 305. [Listed.]
 1935 Wu, Catalogus Insectorum Sinensium 2: 106. [Listed.]
 1938 Matsumura, Ins. Matsumurana 12: 152. [Comparative note.]
 1940 Neave, Nomenclator Zoologicus 3: 338. [Listed.]

alba Melichar

- 1914 *Nysia* [sic] *alba* Melichar, Philippine Jour. Sci. 9: 178. [n. sp.]¹ Philippine
 1935 *Nisia alba* China, Trop. Binn 6: 305. [Listed, comparative notes.]¹ Islands¹

albinotata Muir

- 1927 *Nisia albinotata* Muir, Ann. Mag. Nat. Hist. (9) 19: 199; Figs. 3-5. [n. sp., illustrated.]¹ Cape Province¹

albonotata Distant

- 1920 *Nisia albonotata* Distant, Ann. Mag. Nat. Hist. (9) 6: 463. [n. sp.]¹ New Caledonia¹

albovenosa Distant

- 1906 *Nisia albovenosa* Distant, Fauna of British India 3: 310. [n. sp.]¹ Ceylon¹
 1914 *Nisia albovenosa* Melichar, Notes Leyden Mus. 36: 104. [Listed.]² Java²
 1926 *Nisia albovenosa* Schmidt, Treubia 7: 239. [Listed.]³ Buru Island³
 1928 *Nisia albovenosa* Schmidt, Treubia 10: 131. [Listed.]⁴ Sumatra⁴

albovenosa Muir [nec Distant]. See *Nisia muiri* Metcalf.

atrnervosa. Typographical error for *Nisia atrovenosa* Lethierry.

atrovenosa Lethierry

- 1888 *Meenoplus atrovenosus* Lethierry, Ann. Mus. Genova (2) 6: 466 Pulo-Nias
 (7). [n. sp.]¹ Island¹
 1897 [*Nisia atrovenosa*] Sasaki, Dob. Zasshi 9 (108): [383, 3 figs.]. (Sunda Islands)
 [Notes, illustrated.] Japan²
 1899 [*Nisia atrovenosa*] Sasaki, Dob. Zasshi 11 (128): [Pl. 1, Fig. 12]. Ceylon³
 [Illustrated.]² India⁴
 1903 *Nisia atrovenosa* Melichar, Homopteren-Fauna von Ceylon 1903: Somaliland⁵
 53. [Described.]^{1,3,4} Equals *Meenoplus atrovenosus* Leth. :223. Queensland⁶
 [Listed.]³ Fiji Islands⁷
 1904 *Nisia atrovenosa* Melichar, Verh. Zool. Bot. Ges. Wien. 54: 34. Java⁸
 [Listed.]⁵ Morocco⁹
 1906 *Nisia atrovenosa* Distant, Fauna of British India 3: 309; Fig. 150. Madagascar¹⁰
 [Described, illustrated.]^{1,3} Equals *Meenoplus [atrovenosus]* Leth. New Guinea¹¹

- 1906 *Nisia atrovenosus* [sic] Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 316. [Listed.] :427. [Listed.]^{1,3,6,7} Equals *Meenoplus atrovenosus* Leth. Ethiopia¹²
Tangier¹³
Sumatra¹⁴
- 1907 *Nisia atrovenosa* Bierman, Ent. Berichten 2: 162. [Listed.]⁸ Formosa¹⁵
- 1907 *Nisia atrovenosa* Horváth, Ann. Mus. Nat. Hungarici 5: 322. [Listed.]^{1,3,6,7,9,10,11} Equals *Meenoplus atrovenosus* Leth. Ryukyu
Islands¹⁶
- 1907 *Nisia atrovenosus* [sic] Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 165. [Listed.]^{4,7,12} China¹⁷
Federated
Malay States¹⁸
- 1907 *Nisia atronervosa* [sic] Matsumura, Annot. Zool. Japonenses 6: 84, 85, 89. [Listed.]² Europe¹⁹
- 1908 *Nisia atrovenosa* Bierman, Notes Leyden Mus. 29: 157. [Listed.]⁸ Africa²⁰
- 1908 *Nisia atrovenosa* Kirkaldy, Ann. Soc. Ent. Belgique 52: 13 (6). [Listed.]³ Egypt²¹
Australia²²
- 1908 *Nisia nervosa* [sic] Matsumura, Jour. Coll. Sci. Tokyo 23 (6): 2. [Listed.]¹³ Oriental
Region²³
- 1908 *Nisia atrovenosa* Oshanin, Ann. Mus. Zool. St. Petersburg 13: 447. [Listed.]^{1,2,3,6,7,9,10,11} Equals *Meenoplus atrovenosus* Leth. Borneo²⁴
Amboyna
Island²⁵
- 1909 *Nisia atrovenosa* Lefroy and Howlett, Indian Insect Life 1909: 726. [Notes.]⁴ Honshu²⁶
- 1910 *Nisia atrovenosa* Bierman, Notes Leyden Mus. 33: 32. [Listed.]¹⁴ Shikoku²⁷
- 1910 [*Nisia*] *nervosa* [sic] Matsumura, Jour. Coll. Sci. Tokyo 27 (18): 1. [Typographical error for [*Nisia*] *atrovenosa*]. Kyushu²⁸
- 1910 *Nisia atrovenosa* Matsumura, Zeits. Wiss. Insektenbiol 6: 103. [Listed.]¹⁵ South Europe²⁹
North Africa³⁰
Korea³¹
- 1910 *Nisia atrovenosa* Matsumura, Die Schädlichen Insekten vom Zuckerrohr Formosas 1910: 14; Pl. XV, Fig. 7. [Listed, illustrated.]^{2,4,15,16,17,18,19,20} Seychelles
Islands³²
- 1910 *Nisia atrovenosa* Shiraki, [Injurious Insects of Formosa] 1:[60]; Pl. XLI, Fig. 7. [Notes, illustrated.]¹⁵ Bengal³³
Madras
Presidency³⁴
- 1911 *Nisia atrovenosa* Horváth, Bull. Soc. Ent. Égypte 1910: 117. [Listed.]^{2,9,10,21,22} Mahe Island³⁵
Silhouette
Island³⁶
- 1912 *Nisia atrovenosa* Oshanin, Katalog paläarktischen Hemiptera 1912: 121. [Listed.]^{2,9,12,22,23} Philippine
Islands³⁷
- 1912 *Nisia nervosa* [sic] Shiraki, [Spec. Rept. Formosa Agr. Exp. Sta. 5: 90.] [Economics.] Sibiru Island³⁸
- 1913 *Nisia atrovenosa* Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12:81 [Listed.]^{24,25} Buru Island³⁹
Palestine⁴⁰
- 1913 *Nissia* [sic] *atrovenosa* Shiraki, [Spec. Rept. Formosa Agr. Exp. Sta. 8: 156.] [Listed.]¹⁵ Southern
Palearctic
Region⁴¹
- 1914 [*Nisia*] *atrovenosa* Melichar, Philippine Jour. Sci. 9: 178, 179. [Comparative notes.] Upolu Island⁴²
- 1914 *Nisia atrovenosa* Matsumura, Ann. Mus. Nat. Hungarici 12: 287. [Listed.]^{4,15,16,17,26,27,28,29,30,57} Equals *Meenoplus atrovenosus* Leth. Tutuila Island⁴³
Indo-Malaya⁴⁴
- 1914 *Nisia atrovenosa* Melichar, Notes Leyden Mus. 36: 104. [Listed.]⁸ Cape Province⁴⁵
Natal⁴⁶
- 1915 *Nisia nervosa* [sic] Matsumura, Trans. Sapporo Nat. Hist. Soc. 5: 158, 184. [Listed.]³¹ Zanzibar⁴⁷
Sierra Leone⁴⁸
- 1915 *Nisia atrovenosa* Schumacher, Mitt. Zool. Mus. Berlin 8: 124. [Listed.]^{1,2,3,4,6,7,10,11,14,15,16,17,29,30} Equals *Meenoplus atrovenosus* Leth. Sebesi Island⁴⁹
Lombok
Island⁵⁰
- 1915 *Nisia atrovenosa* Schumacher, Suppl. Ent. 4: 134. [Listed.]¹⁵ Sumbawa
Island⁵¹
- 1916 *Nisia atrovenosa* Distant, Fauna of British India 6: 71. [Listed.]^{33,34,56} Singapore
Island⁵²
- 1917 *Nisia atrovenosa* Distant, Trans. Linn. Soc. London Zool. 17: 291. [Notes.]^{1,3,15,24,32,35,36} Equals *Meenoplus atrovenosus* Leth. :292. Chekiang⁵³
Kwantung⁵⁴

Nisia

- 1917 *Nisia atrovenosa* Pierce, Manual of Dangerous Insects 1917: 190, 206. [Listed.]^{15,23} Hainan Island⁵⁵
South India⁵⁶
- 1920 *Meenoplus atrovenosa* [sic] Bergroth, Arkiv Zool. 12: 21. [Notes.] Malay
- 1920 *Nisia atrovenosa* Bergroth, Arkiv Zool. 12: 21. Equals *Meenoplus atrovenosa* [sic] Leth. Archipelago⁵⁷
Rodriguez
- 1921 *Nisia atrovenosus* [sic] Muir, Proc. Hawaiian Ent. Soc. 4: 570, 571. [Notes.]^{3,4,10,15,22} Island⁵⁸
Key Islands⁵⁹
- 1921 *Meenoplus atrovenosus* Muir, Proc. Hawaiian Ent. Soc. 4: 582; Pl. X, Fig. 2. [Illustrated.]
- 1921 *Nisia atrovenosa* Woodworth, Philippine Agr. 10: 27. [Food plants.]³⁷
- 1924 *Nisia atrovenosa* Buchner, Verh. Deutschen Zool. Ges. 29: 52. [Listed.]⁸
- 1924 *Nisia atrovenosa* Okamoto, Rept. Agr. Exp. Sta. Chosen 12: [12, 29, 30.] [Listed.] :[24]. [Economics.]³¹
- 1925 *Nisia atrovenosa* Buchner, Zeits. Morph. Ökol. Tiere 4: 92. [Listed.] :186; Text fig. 32. [Symbionts illustrated.]
- 1925 *Nisia atrovenosus* [sic] Muir, Trans. Ent. Soc. London 1924: 466. [Note.]^{1,58} Equals *Meenoplus atrovenosus* Leth.
- 1925 *Nisia atrovenosa* Singh-Pruthi, Trans. Ent. Soc. London 1925: 226; Pl. XXX, Fig. 261. [Male genitalia, illustrated.]
- 1926 *Nisia atrovenosa* Muir, Jour. Malayan Br. R. Asiatic Soc. 4: 397. [Notes.]^{1,38}
- 1926 *Nisia atrovenosa* Schmidt, Treubia 7: 239. [Listed.]³⁹
- 1927 *Nisia atrovenosa* Haupt, Bull. Palestine Agr. Exp. Sta. 8: 14. [Listed.]^{4,12,22,40,41}
- 1927 *Nisia atrovenosa* Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1 (2): 2. [Listed.]^{7,42,43} :16. [Notes.]^{20,22,42,43,44} :17. [Comparative note.]
- 1927 *Nisia atrovenosa* Muir, Ann. Mag. Nat. Hist. (9) 19: 198; Figs. 1, 2. [Notes, illustrated.]^{1,6,14,15,45,46,47,48}
- 1928 *Nisia atrovenosa* Jacobi, Arkiv Zool. 19 (28): 41. [Listed.]⁶
- 1928 *Nisia atrovenosa* Schmidt, Treubia 10: 131. [Listed.]^{14,59}
- 1930 *Nisia atrovenosa* Esaki and Hashimoto, Publ. Kyushu Imp. Univ. Ent. Lab. 1: 4. [Economics.]²
- 1930 *Nisia atrovenosa* Muir, Treubia 12: 34. [Notes.] :35. [Listed.]^{6,49}
- 1930 *Nisia atrovenosa* Uichanco, Proc. Pacific Sci. Cong. Java 4: 571. [Listed.]³⁷
- 1931 *Nisia atrovenosa* Clausen, Circ. United States Dept. Agr. 168: 45. [Listed.]^{2,15,16,17}
- 1931 *Nisia atrovenosa* Esaki and Hashimoto, Publ. Kyushu Imp. Univ. Ent. Lab. 2: 4. [Economics.]
- 1931 *Nisia atrovenosa* Matsumura, 6000 Illustrated Insects of Japan Empire 1931: [1269]; 1 Fig. [Described, illustrated.]²
- 1932 *Nisia atrovenosa* Esaki, Lecture on leafhoppers 1932: 7. [Listed.]
- 1932 *Nisia atrovenosa* Esaki, Iconographia Insectorum Japonicorum 1932:[1786.] [Described, illustrated.]²
- 1932 *Nisia atrovenosa* Matsumura, Conspectus of Japanese Injurious Insects 1932: 246. [Economics.]²
- 1932 *Nisia atrovenosa* Esaki and Hashimoto, Publ. Kyushu Imp. Univ. Ent. Lab. 3: 5. [Listed.]
- 1933 *Nisia atrovenosa* Hsu, Yearbook Bur. Ent. Hangchow 1932: 333. [Listed.]¹⁷
- 1933 *Nisia atrovenosa* Kato, Three Colour Illustrated Insects of Japan 4: Pl. 18, Fig. 4. [Illustrated.]²
- 1934 *Nisia atrovenosa* Anonymous, List of insects on sugar cane in Formosa 1934: 27. [Listed.]¹⁵
- 1934 *Nisia atrovenosa* Cheng, Ent. and Phytopath. 2: 218. [Morphology, hibernation.]¹⁷
- 1934 *Nisia atrovenosa* Fukushi, Jour. Fac. Agr. Hokkaido Univ. 37: 49. [Listed.]²
- 1935 *Nisia atrovenosa* Cheo, Peking Nat. Hist. Bull. 10: 107. [Food plants.]^{2,3,4,15,16,17,18,20,52,53,54,55}
- 1935 *Nisia nervosa* [sic] Cheo, Peking Nat. Hist. Bull. 10: 107. [Food plants.]^{17,54,55}
- 1935 *Nisia atrovenosa* China, Trop. Binn. 6: 305. [Listed.]^{14,23}
- 1935 *Nisia atrovenosa* Wu, Catalogus Insectorum Sinensium 2: 106. [Listed.]^{3,17} Equals *Meenoplus* [*atrovenosus* Leth.]

- 1937 *Nisia atrovenosa* Chen, Ent. and Phytopath 5: 178, 187. [Economics.]¹⁷
 1937 *Nisia atrovenosa* Bodenheimer, Mém. Inst. Égypte 33: 212. [Listed.]⁴⁰
 1937 *Nisia atrovenosa* [sic] Esaki and Hashimoto, Noj. Min. Agr. and For. 127: 3. [Listed.]²
 1937 *Nisia atrovenosa* Shiraki, [Publ. Bur. Ind. Formosa] 801: 101. [Economics.]¹⁶
 1940 *Nisia atrovenosa* Matsumura, Ins. Matsumurana 15: 36. [Listed.]^{2,4,15,17}
 1940 *Nisia atrovenosa* Li, Economic Entomology of China 1940: 253. [Economics.]¹⁷
 1940 *Nisia nervosa* [sic] Li, Economic Entomology of China 1940: 253. [Economics.]¹⁷
 1940 *Nisia atrovenosa* Müller, Zoologica, Stuttgart 36 (1-2): 25, 33, 35. [Symbionts.]
 1941 *Meenoplus atrovenosus* Jacobi, Zool. Jahrb. Syst. Ökol. 74: 296. [Listed.]^{50,51}

atrovenosa. Typographical error for *Nisia atrovenosa* Lethierry.

buxtoni Muir

- 1931 *Nisia buxtoni* Muir, Rec. Australian Mus. 18: 77; Fig. 19. [n. sp.,
 illustrated.]¹ Espiritu
 Santo Island¹

campbelli Distant

- 1916 *Nisia campbelli* Distant, Fauna of British India 6: 71. [n. sp.]¹ Ceylon¹

dammermani Muir

- 1930 *Nisia dammermani* Muir, Treubia 12: 34; Figs. 10, 11, 11a. [n. sp.,
 illustrated.]¹ Sebesi Island¹

fuscofasciata Distant

- 1917 *Nisia fuscofasciata* Distant, Trans. Linn. Soc. London Zool. 17: 292; Pl. 51, Figs. 3, 3a. [n. sp., illustrated.]^{1,2,3} :285. [Ecology.]
 Silhouette
 Island¹
 Mahe Island²
 Seychelles
 Islands³

grandiceps Kirkaldy

- 1906 *Nisia grandiceps* Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Queensland¹
 Ent. 1 (9): 427. [n. sp.]¹ :314. [Listed.]

langlei Muir

- 1921 *Meenoplus langlei* Muir, Proc. Hawaiian Ent. Soc. 4: 570; Pl. X, Tutuila Island¹
 Figs. 3, 3a. [n. sp., illustrated.]¹ Upolu Island²
 1927 *Nisia langlei* Muir, Insects of Samoa and other Samoan terrestrial
 Arthropoda 1 (2): 2. [Listed.]^{1,2} :16. [Notes.]^{1,2} Equals *Meenoplus langlei* Muir. :17.
 [Comparative note.]

maculosa Distant

- 1917 *Nisia maculosa* Distant, Trans. Linn. Soc. London Zool. 17: 292; Seychelles
 Pl. 51, Figs. 4, 4a. [n. sp., illustrated.]^{1,2} :293. [Comparative note.] Islands¹
 Mahe Island²

mui nom. nov. for *Nisia albovenosa* Muir 1927 [nec *Nisia albovenosa* Distant 1906].

- 1927 *Nisia albovenosa* Muir, Ann. Mag. Nat. Hist. (9) 19: 200; Fig. 6. Cape
 [n. sp., illustrated.]¹ Province¹

nervosa. Typographical error for *Nisia atrovenosa* Lethierry.

nitida Bierman. See *Phaconeura nitida* Bierman.

*Nisia—Kotonisia—Kermesia***psylla** Bierman1910 *Nisia psylla* Bierman, Notes Leyden Mus. 33: 32; Pl. 2, Figs. 13, Java¹
a-b. [n. sp., illustrated.]¹1910 *N[isia] psylla* Bierman, Notes Leyden Mus. 33: 33. [Comparative note.]1935 *Nisia psylla* China, Trop. Binn. 6: 305. [Listed.]¹*rubrofasciata* Distant. See *Phaciocephalus rubrofasciatus* Distant.**sulphurata** Distant1917 *Nisia sulphurata* Distant, Trans. Linn. Soc. London Zool. 17: 292. Seychelles
[n. sp.]^{1,2,3,4} :285. [Ecology.] Islands¹
Silhouette
Island²
Mahe Island³
Praslin Island⁴**thoracica** Distant1917 *Nisia thoracica* Distant, Trans. Linn. Soc. London Zool. 17: 293. Seychelles
[n. sp.]^{1,2} Islands¹
Silhouette
Island²Genus **KOTONISIA** MatsumuraOrthotype *Kotonisia kanoi* [n. sp.] 1938 Matsumura, Ins. Matsumurana
12: 152.*Kotonisia* 1938 Matsumura, Ins. Matsumurana 12: 152. [gen. n.] :148. [Listed.]**kanoi** Matsumura1938 *Kotonisia kanoi* Matsumura, Ins. Matsumurana 12: 152. [n. sp.]¹ Formosa¹
:148. [Listed.]¹Genus **KERMESIA** MelicharHaplotype *Kermesia albida* [n. sp.] 1903 Melichar, Homopteren-Fauna
von Ceylon. 1903: 52.Type *Kermesia albida* 1906 Distant, Fauna of British India 3: 308.Type *Kermesia albida* 1925 Muir, Pan-Pacific Ent. 1: 101.

- Kermesia* 1903 Melichar, Homopteren-Fauna von Ceylon 1903: 52. [gen. n.] :53. [Comparative note.] :223. [Listed.]
- 1906 Distant, Fauna of British India 3: 296. [Key.] :308. [Described.] :309. [Comparative note.]
- 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 427. [Comparative note.]
- 1907 Distant, Ann. Mag. Nat. Hist. (7) 19: 411. [Comparative note.]
- 1907 Distant, Insecta Transvaaliensia 8: 197. [Comparative note.]
- 1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 165. [Comparative note.]
- 1911 Distant, Ann. Mag. Nat. Hist. (8) 8: 643. [Comparative note.]
- 1912 Waterhouse, Index Zoologicus No. II 1912: 145. [Listed.]
- 1913 Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 29. [Notes.] :81. [Key.]
- 1914 Matsumura, Ann. Mus. Nat. Hungarici 12: 286. [Comparative note.]
- 1914 Melichar, Notes Leyden Mus. 36: 101. [Comparative note.]

- 1915 Schumacher, Mitt. Zool. Mus. Berlin 8: 125. [Listed.] Equals *Eponisia* Mats. [error.]
 1916 Distant, Fauna of British India 6: 70. [Listed.] :73, 74. [Comparative notes.]
 1917 Jacobi, Voeltzkow's Reise in Ostafrika 3: 529. [Comparative note.]
 1918 Muir, Ent. Monthly Mag. 54: 243. [Listed.]
 1920 Bergroth, Arkiv Zool. 12: 21. [Note.]
 1925 Handlirsch, Schröder's Handbuch der Entomologie 3 (17-18): 1109. [Listed.]
 1925 Muir, Pan-Pacific Ent. 1: 101. [Listed.] :110. [Key.] :158. Equals *Eponisia* Mats. [error.]
 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 197, 198. [Key.] :201. [Notes.]
 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197; Fig. 22. [Illustrated.]
 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
 1930 Schulze, Kükenthal and Heider, Nomenclator Animalium 3 (13): 1726. [Listed.]
 1932 Brues and Melander, Bull. Mus. Comp. Zool. Harvard Coll. 73: 119. [Listed.]
 1939 Neave, Nomenclator Zoologicus 2: 825. [Listed.]

albida Melichar

- 1903 *Kermesia albida* Melichar, Homopteren-Fauna von Ceylon 1903: Ceylon¹
 53; Pl. I, Figs. 14, 14a, b. [n. sp., illustrated.]¹ :223. [Listed.]¹ India²
 1906 *Kermesia albida* Distant, Fauna of British India 3: 308; Fig. 149.
 [Described, illustrated.]¹
 1916 *Kermesia albida* Distant, Fauna of British India 6: 70. [Listed.]^{1,2}
 1922 *Kermesia albida* Muir, Rec. Indian Mus. 24: 350. [Comparative note.]

albidipennis Muir

- 1927 *Kermesia albidipennis* Muir, Ann. Mag. Nat. Hist. (9) 19: 202; Sierra Leone¹
 Fig. 9. [n. sp., illustrated.]¹ :203, 204. [Comparative note.]

albinervosa Muir

- 1927 *Kermesia albinervosa* Muir, Ann. Mag. Nat. Hist. (9) 19: 203; Sierra Leone¹
 Figs. 11, 12. [n. sp., illustrated.]¹

albipennis Muir

- 1927 *Kermesia albipennis* Muir, Ann. Mag. Nat. Hist. (9) 19: 202; Fig. Sierra Leone¹
 8. [n. sp., illustrated.]¹

guttula Matsumura. See *Eponisia guttula* Matsumura.

hargreavesi Muir

- 1927 *Kermesia hargreavesi* Muir, Ann. Mag. Nat. Hist. (9) 19: 204; Sierra Leone¹
 Figs. 13, 14. [n. sp., illustrated.]¹

immaculata Muir

- 1927 *Kermesia immaculata* Muir, Ann. Mag. Nat. Hist. (9) 19: 201; Gold Coast¹
 Fig. 7. [n. sp., illustrated.]¹

inornata Muir

- 1927 *Kermesia inornata* Muir, Ann. Mag. Nat. Hist. (9) 19: 203; Fig. Sierra Leone¹
 10. [n. sp., illustrated.]¹

Kermesia—*Eponisia***maculata** Melichar

- 1914 *Kermesia maculata* Melichar, Notes Leyden Mus. 36: 100; Pl. 3, Java¹
Fig. 4. [n. sp., illustrated.]¹ Sumatra²
- 1916 *Kermesia maculata* Distant, Fauna of British India 6: 71. [Com-
parative note.]¹
- 1923 *Kermesia maculata* Muir, Philippine Jour. Sci. 22: 172. [Listed.]²

nigropunctata Distant

- 1916 *Kermesia nigropunctata* Distant, Fauna of British India 6: 70; India¹
Fig. 53. [n. sp., illustrated.]¹

pallida Lallemand

- 1928 *Anigrus pallidus* Lallemand, Ann. Mag. Nat. Hist. (10) 1: 249. Gold Coast¹
[n. sp.]¹
- 1930 *Kermesia* [*pallida*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Anigrus pallidus*
Lall.

parva Muir

- 1922 *Kermesia parva* Muir, Rec. Indian Mus. 24: 350. [n. sp.]¹ Bengal¹

semihyalina Lallemand

- 1928 *Anigrus semihyalinus* Lallemand, Ann. Mag. Nat. Hist. (10) 1: Uganda¹
249. [n. sp.]¹
- 1930 *Kermesia* [*semihyalina*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Anigrus*
semihyalinus Lall.

Genus EPONISIA Matsumura

Orthotype *Eponisia guttula* [n. sp.] 1914 Matsumura, Ann. Mus. Nat.
Hungarici 12: 285.

Type *Eponisia guttula* 1925 Muir, Pan-Pacific Ent. 1: 101.

- Eponisia* 1914 Matsumura, Ann. Mus. Nat. Hungarici 12: 285. [gen. n.]
- 1915 Schumacher, Mitt. Zool. Mus. Berlin 8: 125. To *Kermesia* Mel. [error.]
- 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed, comparative note.]
- 1925 Muir, Pan-Pacific Ent. 1: 101. [Listed.] :110. [Key.] :158. To *Kermesia* Mel.
[error.]
- 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 197. [Key.]
- 1929 Schulze, Kükenthal and Heider, Nomenclator Animalium 2 (10): 1179.
[Listed.]
- 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
- 1939 Neave, Nomenclator Zoologicus 2: 274. [Listed.]

albinervosa Muir

- 1934 *Eponisia albinervosa* Muir, Ann. Mag. Nat. Hist. (10) 14: 564. Uganda¹
[n. sp.]¹

guttula Matsumura

- 1914 *Eponisia guttula* Matsumura, Ann. Mus. Nat. Hungarici 12: 286; Formosa¹
Figs. 10a-d. [n. sp., illustrated.]¹
- 1915 *Kermesia guttula* Schumacher, Mitt. Zool. Mus. Berlin 8: 125. [Listed.]¹ Equals
Eponisia guttula Mats.

guttulinervis Matsumura

- 1914 *Eponisia guttulinervis* Matsumura, Ann. Mus. Nat. Hungarici 12: Honshu¹
287. [n. sp.]¹

Genus ROBIGALIA Distant

Orthotype *Robigalia butleri* [n. sp.] 1916 Distant, Fauna of British India 6: 56.

Type *Robigalia butleri* 1925 Muir, Pan-Pacific Ent. 1: 104.

- Robigalia 1916 Distant, Fauna of British India 6: 56. [gen. n.]
1925 Muir, Pan-Pacific Ent. 1: 104. [Listed.] :110. [Key.] :158. To *Nisia* Mel. [error.]
1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.]
1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
1936 Schulze, Kükenthal and Heider, Nomenclator Animalium 5 (22): 3069. [Listed.]
1940 Neave, Nomenclator Zoologicus 4: 79. [Listed.]

butleri Distant

- 1916 *Robigalia butleri* Distant, Fauna of British India 6: 56; Fig. 40. India¹
[n. sp., illustrated.]¹
1925 *Robigalia butleri* Singh-Pruthi, Trans. Ent. Soc. London 1925: 227; Pl. XXX, Fig. 263. [Genitalia, illustrated.]

Genus SUVA Kirkaldy

Haplotype *Suva koebelei* [n. sp.] 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 428.

Type *Suva koebelei* 1925 Muir, Pan-Pacific Ent. 1: 104.

- Suva 1906 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 1 (9): 428. [gen. n., comparative note.] :426. [Key.] :314. [Listed.]
1907 Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 3: 163. [Key.] :165. [Notes.]
1912 Waterhouse, Index Zoologicus No. II. 1912: 290. [Listed.]
1913 Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 29, 81. [Notes.] :80. [Key.]
1918 Muir, Ent. Monthly Mag. 54: 243. [Listed.]
1920 Bergroth, Arkiv Zool. 12: 21. [Notes.]
1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed, comparative note.]
1925 Muir, Pan-Pacific Ent. 1: 104. [Listed.] :110. [Key.]
1927 Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1 (2): 16. [Listed.]
1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.]
1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
1932 Brues and Melander, Bull. Mus. Comp. Zool. Harvard Coll. 73: 119. [Listed.]
1937 Schulze, Kükenthal and Heider, Nomenclator Animalium 5 (23): 3341. [Listed.]
1940 Neave, Nomenclator Zoologicus 4: 354. [Listed.]

albipennis Muir

- 1927 *Suva albipennis* Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1 (2): 17; Figs. 16, 17. [n. sp., illustrated.]^{1,2} :3. Upolu Island¹
Savaii Island²
[Listed.]^{1,2}

albiplaga Distant

- 1906 *Kinnara albiplaga* Distant, Fauna of British India 3: 290. [n. sp.]¹ Ceylon¹

Suva—*Meenoplinae*—*Anigrus*

- 1925 *Suva* [*albiplaga*] Muir, Pan-Pacific Ent. 1: 159. Equals *Kinnara albiplaga* Dist.

koebelei Kirkaldy

- 1906 *Suva koebelei* Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. Viti Levu
1 (9): 428. [n. sp.]¹ :314. [Listed.] Island¹
- 1907 *Suva koebelei* Kirkaldy, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent.
3: 13. [Listed.] :165, 182; Pl. IX, Figs. 14–16. [Illustrated.] :166; Text figs. 3, 3a.
[Illustrated.]
- 1913 *Suva koebelei* Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 81. [Listed.]
- 1927 *Suva koebelei* Muir, Insects of Samoa and other Samoan terrestrial Arthropoda 1
(2): 16, 17. [Comparative notes.]

upolensis Muir

- 1927 *Suva upolensis* Muir, Insects of Samoa and other Samoan terres- Upolu Island¹
trial Arthropoda 1 (2): 16; Figs. 14, 15. [n. sp., illustrated.]¹ :3.
[Listed.]¹ :17. [Comparative note.]

Subfamily MEENOPLINAE

- Meenoplidae* 1925 Handlirsch, Schröder's Handbuch der Entomologie 3 (9): 1107. To
Cixiinae Subfamily [error.]
- Meenoplinae* 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. [Key.]
- 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
- 1940 Müller, Zoologica, Stuttgart 36 (1–2): 32; Pl. XIII, Fig. 65; Pl. XIV,
Figs. 66–69. *Subfamily*. [Symbionts, illustrated.]

Genus ANIGRUS Stål

- Logotype *Anigrus sordidus* 1925 Muir, Pan-Pacific Ent. 1: 99.
- Type *Anigrus sordidus* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470.

[*Paranigrus* Bergroth]

- [Haplotype *Paranigrus muiri* [n. sp.] 1920 Bergroth, Arkiv Zool. 12:
18.]

- [Type *Paranigrus muiri* 1925 Muir, Pan-Pacific Ent. 1: 103.]

[*Inxwala* Distant]

- [Haplotype *Inxwala modesta* [n. sp.] 1907 Distant, Insecta Transvaal-
iensia 8: 197.]

- [Type *Inxwala modesta* 1925 Hesse, Ann. South African Mus. 23: 157.]

- [Type *Inxwala modesta* 1925 Muir, Pan-Pacific Ent. 1: 101.]

- [Type *Inxwala modesta* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470.]

[*Paranisia* Matsumura]

- [Orthotype *Paranisia formosana* [n. sp.] 1914 Matsumura, Ann. Mus.
Nat. Hungarici 12: 283.]

- [Type *Paranisia formosana* 1925 Muir, Pan-Pacific Ent. 1: 103.]

- Anigrus* 1866 Stål, Hemiptera Africana 4: 172. [gen. n.] :166. [Key.]
- 1873 Marschall, Nomenclator Zoologicus 1873: 353. [Listed.]
- 1882 Scudder, Bull. United States Nat. Mus. 19: 19. [Listed.]
- Inxwala* 1907 Distant, Insecta Transvaaliensia 8: 197. [gen. n.]

- 1912 Waterhouse, Index Zoologicus No. II. 1912: 141. [Listed.]
- Paranisia* 1914 Matsumura, Ann. Mus. Nat. Hungarici 12: 283. [gen. n.] :285. [Comparative note.]
- 1915 Schumacher, Mitt. Zool. Mus. Berlin 8: 125. [Listed.]
- Inxwala* 1918 Muir, Ent. Monthly Mag. 54: 243. [Listed.]
- Anigrus* 1920 Bergroth, Arkiv Zool. 12: 20. [Comparative note.]
- Inxwala* 1920 Bergroth, Arkiv Zool. 12: 21, 22. [Notes.]
- Paranigrus* 1920 Bergroth, Arkiv Zool. 12: 18. [gen. n.]
- Anigrus* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed.]
- Inxwala* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed.]
- Paranigrus* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed.]
- Paranisia* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Listed, comparative note.]
- Inxwala* 1925 Hesse, Ann. South African Mus. 23: 157. [Listed.]
- Anigrus* 1925 Muir, Pan-Pacific Ent. 1: 99. [Listed.] :110. [Key.] :158. Equals *Inxwala* Dist.
- Inxwala* 1925 Muir, Pan-Pacific Ent. 1: 101. [Listed.] :110. [Key.]
- Paranigrus* 1925 Muir, Pan-Pacific Ent. 1: 103. [Listed.] :110. [Key.]
- Paranisia* 1925 Muir, Pan-Pacific Ent. 1: 103. [Listed.] :110. [Key.]
- Anigrus* 1926 Schulze, Kükenthal and Heider, Nomenclator Animalium 1 (2): 185. [Listed.]
- 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.]
- Inxwala* 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.] Equals *Paranigrus* Bergr. :205. [Listed.] Equals *Paranigrus* Bergr.
- Paranisia* 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.]
- Anigrus* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470. Equals *Paranisia* Mats. :471 [Key.] Equals *Inxwala* Dist. Equals *Paranigrus* Bergr. Equals *Paranisia* Mats.
- Inxwala* 1930 Schulze, Kükenthal and Heider, Nomenclator Animalium 3 (13): 1679. [Listed.]
- Anigrus* 1932 Brues and Melander, Bull. Mus. Comp. Zool Harvard Coll. 73: 119. [Listed.]
- Paranigrus* 1933 Schulze, Kükenthal and Heider, Nomenclator Animalium 4 (18): 2507. [Listed.]
- Paranisia* 1933 Schulze, Kükenthal and Heider, Nomenclator Animalium 4 (18): 2508. [Listed.]
- Anigrus* 1939 Neave, Nomenclator Zoologicus 1: 201. [Listed.]
- Inxwala* 1939 Neave, Nomenclator Zoologicus 2: 777. [Listed.]
- Paranigrus* 1940 Neave, Nomenclator Zoologicus 3: 583. [Listed.]
- Paranisia* 1940 Neave, Nomenclator Zoologicus 3: 583. [Listed.]
- 1940 Müller, Zoologica, Stuttgart 36 (1-2): 33, 34; Pl. XIV, Figs. 70-71. [Symbionts, illustrated.]

albinervosus Muir. See *Meenoplus albinervosus* Muir.

bergrothi Muir

- 1855 *Delphax lugens* Stål, Öfv. Svenska Vet. Akad. Förh. 12: 93. [n. sp.]¹ Natal¹
Cape Province²
- 1858 *Delphax lugens* Walker, List of Homopterous Insects. Addenda. 1858: 326. [Listed.]¹ Java³
Africa⁴
- 1859 *Delphax lugens* Dohrn, Catalogus Hemipterorum 1859: 61. [Listed.]² Sierra Leone⁵
- 1859 *Delphax lugens* Stål, Fregatten Eugenie's resa 4: 276. [Described.]³
- 1866 *Anigrus lugens* Stål, Hemiptera Africana 4: 173. [Described.]² Equals *Delphax lugens* Stål.
- 1927 *Anigrus lugens* Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Listed.]⁴
- 1927 *Inxwala bergrothi* Muir, Ann. Mag. Nat. Hist. (9) 19: 206; Fig. 18. [n. sp., illustrated.]^{2,5}

Anigrus

- 1930 *Anigrus lugens* Muir, Ann. Mag. Nat. Hist. (10) 6: 470. Equals *Inxwala bergrothi* Muir. :471. [Listed.] Equals *Delphax lugens* Stål. Equals *Inxwala bergrothi* Muir. *fletcheri* Kirkaldy. See *Phaconeura fletcheri* Kirkaldy.

formosanus Matsumura

- 1914 *Paranisia formosana* Matsumura, Ann. Mus. Nat. Hungarici 12: Formosa¹
284; Figs. 9a-d. [n. sp., illustrated.]¹
1914 *P[aranisia] formosana* Matsumura, Ann. Mus. Nat. Hungarici 12: 285. [Comparative note.]
1915 *Paranisia formosana* Schumacher, Mitt. Zool. Mus. Berlin 8: 125. [Listed.]¹
1930 [*Anigrus formosanus*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Paranisia formosana* Mats.

frequens Matsumura

- 1914 *Paranisia frequens* Matsumura, Ann. Mus. Nat. Hungarici 12: Formosa¹
285. [n. sp.]¹ Federated
1915 *Paranisia frequens* Schumacher, Mitt. Zool. Mus. Berlin 8: 125. Malay States²
[Listed.]^{1,2}
1930 [*Anigrus frequens*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Paranisia frequens* Mats.

fuscomaculatus Melichar

- 1905 *Anigrus fuscomaculatus* Melichar, Wien. Ent. Zeit. 24: 284. [n. sp.]¹ Tanganyika
Territory¹
1927 *Anigrus fuscomaculata* [sic] Muir, Ann. Mag. Nat. Hist. (9) 19: Africa²
198. [Listed.]²
1930 *Anigrus fuscomaculatus* Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Listed.]
fuscovenosus Jacobi. See *Meenoplus fuscovenosus* Jacobi.
lugens Stål. See *Anigrus bergrothi* Muir.

muiri Bergroth

- 1920 *Paranigrus muiri* Bergroth, Arkiv Zool. 12: 20; Fig. 2. [n. sp., illustrated.]¹ Kenya¹
Africa²
1927 *Inxwala muiri* Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Listed.]²
1930 [*Anigrus muiri*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Paranigrus muiri* Bergr.

nigricans Matsumura

- 1914 *Paranisia nigricans* Matsumura, Ann. Mus. Nat. Hungarici 12: Formosa¹
285. [n. sp.]¹
1915 *Paranisia nigricans* Schumacher, Mitt. Zool. Mus. Berlin 8: 125. [Listed.]¹
1930 [*Anigrus nigricans*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Paranisia nigricans* Mats.

pallidus Lallemand. See *Kermesia pallida* Lallemand.

semihyalinus Lallemand. See *Kermesia semihyalina* Lallemand.

sordidus Stål

- 1866 *Anigrus sordidus* Stål, Hemiptera Africana 4: 173. [n. sp.]¹ Cape Province¹
1907 *Inxwala modesta* Distant, Insecta Transvaaliensia 8: 197; Pl. XX, Natal²
Figs. 6, 6a. [n. sp., illustrated.]² South West
1925 *Inxwala modesta* Hesse, Ann. South African Mus. 23: 157; Pl. VII, Africa³
Figs. 7, 7a, b. [Notes, illustrated.]³ Africa⁴

- 1927 *Inxwala modesta* Muir, Ann. Mag. Nat. Hist. (9) 19: 205; Figs. 15-17. [Described, illustrated.]^{1,2,3} :197. [Note.]
 1927 *Anigrus sordidus* Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Listed.]⁴
 1930 *Anigrus sordidus* Muir, Ann. Mag. Nat. Hist. (10) 6: 470. Equals *Inxwala modesta* Dist. :471. [Listed.] Equals *Inxwala modesta* Dist.

stramineus Muir. See *Meenoplus stramineus* Muir.

turneri Muir. See *Meenoplus turneri* Muir.

Genus MEENOPLUS Fieber

Haplotype *Meenoplus albosignatus* [n. sp.] 1866 Fieber, Verh. Zool. Bot. Ges. Wien 16: 498.

Type *Meenoplus albosignatus* 1912 Oshanin, Katalog paläarktischen Hemiptera 1912: 120.

Type *Meenoplus albosignatus* 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 569.

Type *Meenoplus albosignatus* 1925 Muir, Pan-Pacific Ent. 1: 102.

Type *Meenoplus albosignatus* 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 470.

- Meenoplus* 1866 Fieber, Verh. Zool. Bot. Ges. Wien 16: 498. [gen. n., key.] :514. [Listed.]
 1867 Dallas, Zool. Rec. 3:561. [Key.]
 1872 Fieber, Katalog europäischen Cicadinen 1872: 3. [Listed.]
 1873 Marschall, Nomenclator Zoologicus 1873: 371. [Listed.]
 1875 Fieber, Rev. Mag. Zool. (3) 3: 345 (58). [Key.]
 1875 Puton, Catalogue Hémiptères d'Europe. Second Ed. 1875: 111. [Listed.]
 1876 Fieber, Rev. Mag. Zool. (3) 4: 164 (154); Pl. 4. [Illustrated.]
 1882 Scudder, Bull. United States Nat. Mus. 19: 189. [Listed.]
 1886 Puton, Catalogue Hémiptères Faune Paléarctique. Third Ed. 1886: 68. [Listed.]
 1889 Ashmead, Ent. Americana 5: 2. [Key.]
 1891 Oshanin, Mém. Sect. Caucasiennne Soc. Russe Geogr. 23 (1): 48. [Listed.]
 1899 Horváth, Die Sammlungen des kaukasischen Museums 1: 468. [Listed.]
 1899 Puton, Catalogue Hémiptères Faune Paléarctique. Fourth Ed. 1898: 102. [Listed.]
 1903 Melichar, Homopteren-Fauna von Ceylon 1903: 42. [Comparative note.]
 1907 Oshanin, Ann. Mus. Zool. St. Petersburg 12: 251. [Listed.]
 1912 Oshanin, Katalog paläarktischen Hemiptera 1912: 120. [Listed.]
 1914 Matsumura, Ann. Mus. Nat. Hungarici 12: 284. [Comparative note.]
 1920 Bergroth, Arkiv Zool. 12: 21. [Comparative note.]
 1921 Muir, Proc. Hawaiian Ent. Soc. 4: 569. [Notes.] :570. [Listed, comparative note.]
 1925 Muir, Pan-Pacific Ent. 1: 102. [Listed.] :110. [Key.]
 1927 Muir, Ann. Mag. Nat. Hist. (9) 19: 198. [Key.]
 1929 Haupt, Zool. Jahrb. Syst. Ökol. 58: 197. [Listed.]
 1930 Muir, Ann. Mag. Nat. Hist. (10) 6: 471. [Key.]
 1931 Schulze, Kükenthal and Heider, Nomenclator Animalium 3 (15): 1992. [Listed.]
 1932 Brues and Melander, Bull. Mus. Comp. Zool. Harvard Coll. 73: 119. [Listed.]
 1940 Neave, Nomenclator Zoologicus 3: 64. [Listed.]

abosignatus. Typographical error for *Meenoplus albosignatus* Fieber.

*Meenoplus***albinervosus** Muir

- 1927 *Anigrus albinervosus* Muir, Ann. Mag. Nat. Hist. (9) 19: 208; Sierra Leone¹
Fig. 20. [n. sp., illustrated.]¹ :197. [Note.]
1930 [*Meenoplus albinervosus*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Anigrus albinervosus* Muir.

albosignatus Fieber

- 1866 *Meenoplus albosignatus* Fieber, Verh. Zool. Bot. Ges. Wien 16: Greece¹
510; Pl. VII, Figs. 2a-e. [n. sp., illustrated.]¹ :498, 514. [Listed.] Italy²
1872 *Meenoplus albosignatus* Fieber, Katalog europäischen Cicadinen Turkestan³
1872: 3. [Listed.]¹ Asia Minor⁴
1875 *Meenoplus albosignatus* Puton, Catalogue Hémiptères d'Europe. Caucasus⁵
Second Ed. 1875: 111. [Listed.]¹ South Europe⁶
1876 *Meenoplus abosignatus* [sic] Fieber, Rev. Mag. Zool. (3) 4: 165
(155). [Described.]¹
1883 *Meenoplus albosignatus* Puton, Rev. Ent. 2: 286. [Listed.]^{2,3}
1886 *Meenoplus albosignatus* Puton, Catalogue Hémiptères Faune Paléarctique. Third
Ed. 1886: 68. [Listed.]^{1,2,3}
1891 *Meenoplus albosignatus* Oshanin, Mém. Sect. Caucasienne Soc. Russe Geogr. 23
(1): 48. [Listed.]
1899 *Meenoplus albosignatus* Horváth, Die Sammlungen des kaukasischen Museums 1:
468. [Listed.]⁵
1899 *Meenoplus albosignatus* Puton, Catalogue Hémiptères Faune Paléarctique. Fourth
Ed. 1899: 102. [Listed.]^{1,2,3}
1907 *Meenoplus albosignatus* Oshanin, Ann. Mus. Zool. St. Petersburg 12: 251.
[Listed.]^{1,2,3,4,5}
1912 *Meenoplus albosignatus* Oshanin, Katalog paläarktischen Hemiptera 1912: 120.
[Listed.]^{3,4,5,6}
1913 *Meenoplus albosignata* [sic] Muir, Bull. Hawaiian Sugar Pl. Assoc. Div. Ent. 12: 81.
[Comparative note.]
1921 *Meenoplus albosignatus* Muir, Proc. Hawaiian Ent. Soc. 4: 570. [Comparative note.]
1930 *Meenoplus albosignatus* Muir, Ann. Mag. Nat. Hist. (10) 6: 470. [Notes.] :471.
[Listed.]

atrovenosus Lethierry. See *Nisia atrovenosa* Lethierry.

fuscovenosus Jacobi

- 1917 *Anigrus fuscovenosus* Jacobi, Voeltzkow's Reise in Ostafrika 3: Sainte Marie¹
529; Pl. 32, Figs. 4, 4a, b. [n. sp., illustrated.]^{1,3,4} Africa²
1920 *Anigrus fuscovenosus* Bergroth, Arkiv Zool. 12: 20. [Listed.] Nossi-Be³
1927 *Anigrus fuscovenosa* [sic] Muir, Ann. Mag. Nat. Hist. (9) 19: 198. Madagascar⁴
[Listed.]²
1930 [*Meenoplus fuscovenosus*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Anigrus fuscovenosus* Jac.

langlei Muir. See *Nisia langleyi* Muir.

stramineus Muir

- 1927 *Anigrus stramineus* Muir, Ann. Mag. Nat. Hist. (9) 19: 206; Fig. Sierra Leone¹
19. [n. sp., illustrated.]¹
1930 [*Meenoplus stramineus*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471. Equals *Anigrus stramineus* Muir.

turneri Muir

- 1927 *Anigrus turneri* Muir, Ann. Mag. Nat. Hist. (9) 19: 207. [n. sp.]¹ Cape Province¹
1930 [*Meenoplus turneri*] Muir, Ann. Mag. Nat. Hist. (10) 6: 471.
Equals *Anigrus turneri* Muir.

GENERIC AND SPECIFIC SYNONYMY

Genus **BASILEOCEPHALUS** Kirkaldy

Basileocephalus Kirkaldy. See *Basileocephalus* Kirkaldy.
Family DERBIDAE. Fascicle IV, Part 4.

Genus **INXWALA** Distant

Inxwala Distant. See *Anigrus* Stål.

bergrothi Muir. See *Anigrus bergrothi* Muir.

modesta Distant. See *Anigrus sordidus* Stål.

muiri Bergroth. See *Anigrus muiri* Bergroth.

Genus **MENEOPLUS**

Meneoplus. Typographical error for *Meenoplus* Fieber.

Genus **NISI**

Nisi. Typographical error for *Nisia* Melichar.

Genus **NISSIA**

Nissia. Typographical error for *Nisia* Melichar.

Genus **NYSIA**

Nysia. Typographical error for *Nisia* Melichar.

Genus **PARANIGRUS** Bergroth

Paranigrus Bergroth. See *Anigrus* Stål.

fletcheri Kirkaldy. See *Phaconeura fletcheri* Kirkaldy.

muiri Bergroth. See *Anigrus muiri* Bergroth.

Genus **PARANISIA** Matsumura

Paranisia Matsumura. See *Anigrus* Stål.

formosana Matsumura. See *Anigrus formosanus* Matsumura.

frequens Matsumura. See *Anigrus frequens* Matsumura.

nigricans Matsumura. See *Anigrus nigricans* Matsumura.

Genus **PHACIOCEPHALUS** Kirkaldy

Phaciocephalus Kirkaldy. See *Phaciocephalus* Kirkaldy.
Family DERBIDAE. Fascicle IV, Part 4.

Genus **PHACONURA**

Phaconura. Typographical error for *Phaconeura* Kirkaldy.

Genus **THYROCEPHALUS** Kirkaldy

Thyrocephalus Kirkaldy. See *Lamenia* Stål.
Family DERBIDAE. Fascicle IV, Part 4.