



<http://dx.doi.org/10.11646/zootaxa.3815.3.3>

<http://zoobank.org/urn:lsid:zoobank.org:pub:4A7AAB28-5455-4D3C-B642-463376AC6A94>

## Revision of *Silhouettanus* with description of nine new species (Hemiptera: Heteroptera: Schizopteridae)

LIONEL HILL

P.O. Box 303, Devonport 7310, Australia. E-mail: [Lionel.Hill@dpipwe.tas.gov.au](mailto:Lionel.Hill@dpipwe.tas.gov.au).

### Abstract

The description of *Silhouettanus alboclavatus* Emsley, 1969 (Hemiptera: Schizopteridae) is recognized, supplemented and nine new species of *Silhouettanus* Emsley, 1969 (Hemiptera: Schizopteridae) are described from Queensland and New Caledonia. They are *S. bamaganus* sp. n., *S. insulomagnus* sp. n., *S. insuloparvus* sp. n., *S. lintrarius* sp. n., *S. magnus* sp. n., *S. monteithi* sp. n., *S. pilosus* sp. n., *S. tinnulus* sp. n. and *S. turbator* sp. n. A key to males of the species is provided. Notes on two undescribed Australian genera also with porrect heads and the holotype of *Dictyonannus flavus* Gross, 1951 are given. Morphological comparisons with other schizopterid genera are given.

**Key words:** porrect head, undescribed genera, taxonomy, Australia, New Caledonia, Seychelles

### Introduction

*Silhouettanus* is a poorly known schizopterid genus whose description was dispersed through Emsley's (1969) monograph on the family. The description below of seven new species from Australia and two from New Caledonia, congeneric with a taxon from the Seychelles, also provides an opportunity to confirm the validity of the genus. *Silhouettanus* is unusual among Schizopteridae in possessing a porrect head, which suggests affinities to the Australian *Dictyonannus* Gross, 1951 and the New Guinean *Nannodictyus* Štys, 1974. Two indeterminate Australian taxa allied to these three genera are outlined below.

This is the tenth paper in a series on the schizopterid fauna of Australia building on the descriptions of three genera by Gross (1951). It is the second in which a genus described from the Seychelles has yielded a rich Australian fauna, the other being *Ogeria* Distant, 1913 (Hill, 1990). Two new species from New Caledonia are also described. Specimens for these papers mostly came from the excellent collections of the Australian National Insect Collection and the Queensland Museum but for this paper material was also available from surveys by the Northern Australian Quarantine Service in the Torres Strait region. A few undescribed schizopterid genera represented by small series in the collections remain to be described along with many new species in the previously treated genera. The ceratocombid fauna of Australia, mostly the widespread *Ceratocombus* Signoret, 1852 but also undescribed Issidomimini from far north Queensland and Torres Strait, present in the preceding collections, remains to be described.

### Methods and material

The methods are those of Hill (2013) except that a greater proportion of stereoscopic drawings were prepared without a graticule because of small size.

**Terminology.** For setae, short, medium and long mean less than, equal to and longer than the diameter of the appendage or width of the structure bearing them, respectively. The metascutum includes the inclined posterior areas between the metascutellum and metapleura and may correspond with the hyperpleural lobes of Emsley (1969) and Štys (1982). The aroliar sac corresponds to the empodial vesicle of Emsley (1969) and bladder-like



**FIGURE 19.** A, *Silhouettanus insulomagnus* male genitalia on slide, dorsal. Abbreviations: a, anophore; as, anophoric spine; bp, basal plate; C1, major conjunctival process; Cy, basal conjunctival sclerite; f, fracture of anophore and spine near base of rap. lap, left anophoric appendage; lp, left paramere; rap, right anophoric process; rp, right paramere; v, vesica.

### Acknowledgements

I thank Dr Geoff Monteith and his co-workers in the Queensland Museum, entomologists at the Australian National Insect Collection and Dr Tony Postle of Northern Australia Quarantine Service for the opportunity to study this material. I thank Prof. Pavel Štys and Dr Dávid Rédei for essential advice on the nomenclatural issues arising from the papers of Distant and Emsley.

### References

- Carayon, J. (1949) Description d'un Schizopterinae africain, *Pinochius africanus* n. gen., n. sp., et remarques sur les Hemipteres Cryptostemmatidae. *Bulletin du Muséum National D'Histoire Naturelle*, Series 2, 21, 239–242.
- Cranston, F.P. & Sprague, I.B. (1961) A morphological study of the head capsule of *Gerris remigis* Say. *Journal of Morphology* 108 (3), 287–309.  
<http://dx.doi.org/10.1002/jmor.1051080303>
- Distant, W.L. (1913) Rhynchota (from the Seychelles). Part 1: Suborder Heteroptera. *Transactions of the Linnean Society of London*, Series 2 (Zoology), 16, 169–173.  
<http://dx.doi.org/10.1111/j.1096-3642.1913.tb00115.x>

- Emsley, M.G. (1969) The Schizopteridae (Hemiptera: Heteroptera) with the description of new species from Trinidad. *Memoirs of the American Entomological Society*, 25, 1–154.
- Gross, G.F. (1951) On three new genera and species of Schizopterinae (Heteroptera – Cryptostemmatidae) from Australia. *Records of the South Australian Museum*, 9, 534–544.
- Hill, L. (1980) Tasmanian Dipsocoroidea (Hemiptera: Heteroptera). *Journal of the Australian Entomological Society*, 19, 107–127.  
<http://dx.doi.org/10.1111/j.1440-6055.1980.tb00972.x>
- Hill, L. (1985) A new species of *Pinochius* Carayon (Hemiptera: Schizopteridae). *Journal of the Australian Entomological Society*, 24, 275–279.  
<http://dx.doi.org/10.1111/j.1440-6055.1985.tb00242.x>
- Hill, L. (1987a) First record of Dipsocoridae (Hemiptera) from Australia with the description of four new species of *Cryptostemma* Herrich-Schaeffer. *Journal of the Australian Entomological Society*, 26, 129–139.  
<http://dx.doi.org/10.1111/j.1440-6055.1987.tb00272.x>
- Hill, L. (1987b) Four new Australian species of *Hypselosoma* Reuter (Hemiptera: Schizopteridae). *Journal of the Australian Entomological Society*, 26, 265–278.  
<http://dx.doi.org/10.1111/j.1440-6055.1987.tb00300.x>
- Hill, L. (1990) Australian *Ogeria* Distant (Hemiptera: Schizopteridae). *Invertebrate Taxonomy*, 4, 697–720.  
<http://dx.doi.org/10.1071/it9900697>
- Hill, L. (2004) *Kaimon* (Heteroptera: Schizopteridae), a new, speciose genus from Australia. *Memoirs of the Queensland Museum*, 49 (2), 603–647.
- Hill, L. (2013) New species of *Hypselosoma* Reuter (Heteroptera: Schizopteridae) from New Caledonia. *Memoirs of the Queensland Museum*, 56 (2), 407–455.
- International Commission on Zoological Nomenclature (1999) *International Code of Zoological Nomenclature* online, 4<sup>th</sup> edition. Available from: <http://www.iczn.org/iczn/index.jsp> (accessed 18 April 2014)
- Rédei, D. (2007) A new species of the family Hypsipterygidae from Vietnam, with notes on the hypsipterygid fore wing venation (Heteroptera, Dipsocoromorpha). *Deutsche Entomologische Zeitschrift*, 54 (1), 43–50.  
<http://dx.doi.org/10.1002/mmnd.200700004>
- Rédei, D. (2008) First record of *Pinochius* Carayon, 1949 from the Oriental Region, with description of a new species from Vietnam (Heteroptera: Schizopteridae). In: Grozeva, S. & Simov, N. (Eds.), *Advances in Heteroptera Research: Festschrift in honour of 80<sup>th</sup> anniversary of Michail Josifov*. Pensoft, Sofia, pp. 327–337.
- Štys, P. (1969) On the morphology of the labrum in Heteroptera. *Acta Entomologica Bohemoslovaca*, 66, 150–158.
- Štys, P. (1974) *Semangananus mirus* gen. n., sp. n. from Celebes — a bug with accessory male genitalia (Heteroptera, Schizopteridae). *Acta Entomologica Bohemoslovaca*, 71, 382–397.
- Štys, P. (1982) A new genus and species of Schizopteridae with porrect head from Papua New Guinea (Heteroptera). *Acta Entomologica Bohemoslovaca*, 79, 450–456.
- Torre-Bueno, J.R. (1978) *A glossary of entomology*. New York Entomological Society, New York.
- Wygodzinsky, P. (1947) Sobre um novo gênero e uma nova espécie de Schizopterinae do Brasil (Cryptostemmatidae, Hemiptera). *Boletim de Entomologia Venezuelana*, 6, 25–35.
- Wygodzinsky, P. (1948) On two new genera of “Schizopterinae” (“Cryptostemmatidae”) from the neotropical region. *Revista Brasileira Biologia*, 8 (1), 143–155.
- Wygodzinsky, P. (1950a) Contribution towards the knowledge of the family “Cryptostemmatidae” (Hemiptera). *Revista Brasileira Biologia*, 10 (4), 377–392.
- Wygodzinsky, P. (1950b) Schizopterinae from Angola (Cryptostemmatidae, Hemiptera). *Estudos Diversos II, Mundo do Dundo*, 7, 9–48.
- Wygodzinsky, P. (1958) Chapter 5, Hemiptera (Heteroptera): Dipsocoridae. Results of the Lund University Expedition in 1950–51, *South African Animal Life*, 5, 109–112