

**ADDITIONS TO STREPSIPTERA (INSECTA)
FROM SOUTHEAST ASIA**

Jeyaraney Kathirithamby

ABSTRACT. - Eighty-six species of Strepsiptera have been recorded from Southeast Asia and Sri Lanka (Kathirithamby, 1993, 1994) This paper gives three more records, one of which is new, and a description of a new species of Myrmecolacidae.

INTRODUCTION

Ten new species and twelve new records of Strepsiptera from Southeast Asia were provided by Kathirithamby (1993). The present paper describes an additional new species of Myrmecolacidae, and provides three new records (one of Halictophagidae and two of Myrmecolacidae) for Southeast Asia. The following abbreviations are used: ZML - Zoological Museum, Lund, Sweden; A1L - Mendolong, Sipitang, Sabah, N. Borneo, 40°43'E.

FAMILY HALICTOPHAGIDAE PERKINS, 1905

SUBFAMILY HALICTOPHAGINAE PERKINS, 1905

Genus *Halictophagus* Curtis, 1831

***Halictophagus minimus* Kifune & Hirashima, 1983**

Halictophagus minimus Kifune & Hirashima, 1983, *Esakia* 20: 163. (SRI LANKA: Kitulgala Resthouse, Keg. District).

Material examined. - 1 male (ZML), A1L, Mendolong, Sipitang, Sabah, coll. S. Adebratt, 9.ii.1989.

Distribution. v- Keg. District, Sri Lanka; Sipitang, Sabah, Borneo.

FAMILY MYRMECOLACIDAE SAUNDERS, 1872

Genus *Myrmecolax* Westwood, 1861

Myrmecolax odontognathus Kogan & Oliveira, 1964

Myrmecolax odontognathus Kogan & Oliveira, 1964, *Studia Ent.* 7(1-4): 462 (PAPUA NEW GUINEA: Peria Creek, Kwagiro River) -: Kinzelbach, 1971, *Zoologica*, (119): 158. -: Kifune & Hirashima, 1989, *Esakia*, 28: 38 (SOLOMON ISLANDS: Santa Ysabel, Sukapisu; Santa Ysabel, Buala; Florida Is., Nggela I. Haleta; Guadalcanal, Tathimani; NEW BRITAIN: Gazelle Pen., Beinings; Gazelle Pen., Mt. Sinewit; NEW GUINEA: Kassam, 48km E of Kainantu; E of Kainantu; Papua, Oriomo R; Murua River; NETH, Waris, S of Hollandia; West New Guinea, Nabire; Nabire, S. Geelvink Bay; SE Biak. PHILIPPINES: Albay Province, Libon; BORNEO: Tawau, Sabah; Tebang, Sarawak).

Material examined. - 1 male (ZML), A1L, Mendolong, Sipitang, Sabah; coll. S.Adebratt, 14.iv.1988.

Distribution. - Santa Ysabel, Nggela and Guadacanal, Solomon Islands; New Britain; Papua, Irian Jaya and Biak Is., New Guinea; Luzon, Philippines; Tebang, Sarawak; Tawau and Sipitang, Sabah.

Myrmecolax danielssoni, new species

(Figs. 1-4)

Material examined. - Holotype-male (ZML), A1L, Mendolong, Sipitang, Sabah, coll. S.Adebratt, 14.iv.1988.

Description. - Male. Ommatidia small $\pm$ 67. Head width excluding eyes broad (width including eyes, 0.60 mm; excluding eyes, 0.30 mm); diameter of globular eyes, 0.14 mm (Fig. 1). Mandibles, 0.09 mm; maxilla basal segment, 0.05 mm, palpi long and narrow, 0.24 mm (Fig. 2).

Flabellum of IIIrd antennal segment reaching up to a third of the length of the VIIth; VIth less than a third in length of Vth; VIIth two thirds the length of Vth (IIIrd, 1.05 mm; IVth, 0.04 mm. Vth, 0.49 mm, VIth, 0.22 mm; VII, 0.35 mm) (Fig. 3).

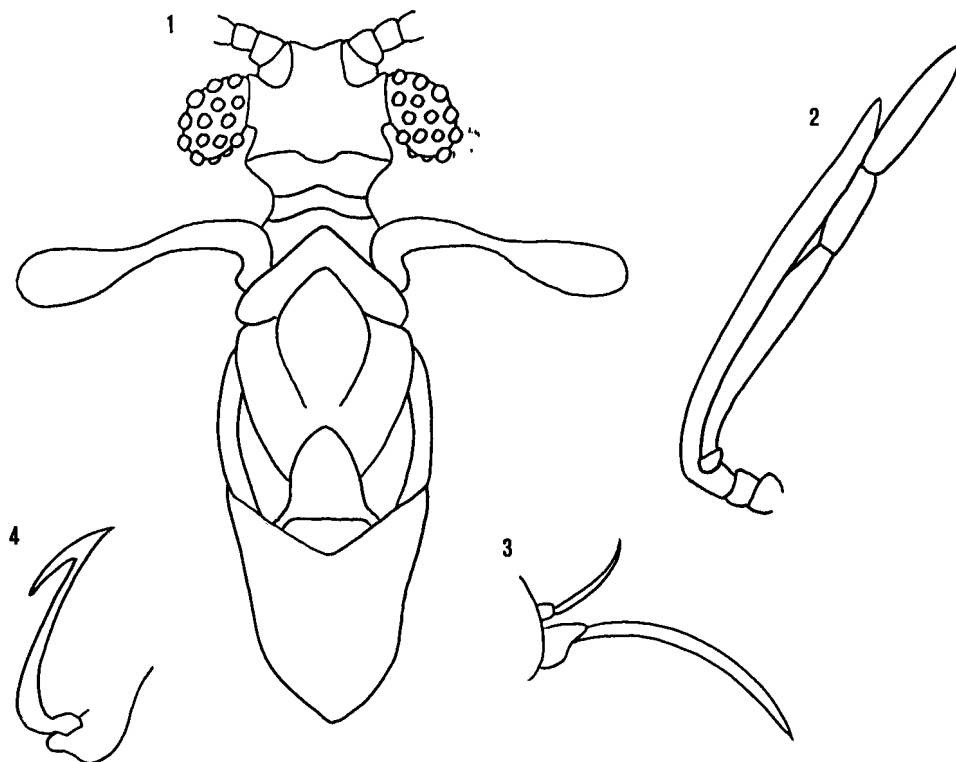
Wing span, 1.38 mm.

Total length, 1.88 mm.

Aedeagus has longer ventral than dorsal projection (fig. 4).

Remarks. - Similar to *M. odontognathus* Kogan & Oliveira, 1964, but differs from it by the width of head between eyes which is twice as long as the diameter of globular eyes (in *M. odontognathus* the width is a third as long as the diameter of eyes); length and shape of palpi of maxilla; and the structure of the aedeagus.

Etymology. - This species is named after Dr. R. Danielsson, Curator of the Entomology Museum, Lund University.



Figs. 1-4. *Myrmecolax danielssoni*, new species. 1, dorsal view of head and thorax; 2, right antennae; 3, right lateral view of mandible and maxilla; 4, left lateral view of aedeagus.

Genus *Stichotrema* Hofeneder, 1910

Stichotrema Hofeneder, 1910: 47.

Caenocholax Pierce, 1909: 88 (pro parte).

Mantidoxenos Ogloblin, 1939: 1277.

Rhipidocolax Bohart, 1951: 94.

Type species. - *Stichotrema dallatorreanum* Hofeneder, 1910.

Stichotrema mendolong Kathirithamby, 1993

Stichotrema mendolong Kathirithamby, 1993, *Raffles Bull. Zool.*, **41**: 197 (Sabah: Sipitang, Mendolong).

Material examined. - 1 male (ZML), Mendolong, Sipitang, Sabah, coll S. Adebratt, 12.iv.1988.

Distribution. - Mendolong, Sipitang, Sabah.

ACKNOWLEDGMENTS

I wish to thank Dr. R. Danielsson, Zoological Museum, Lund, Sweden, for the loan of the material and the Leverhulme Trust for the Research Fellowship.

LITERATURE CITED

- Curtis, J., 1831. *Elenchus Walkeri* [with comments by A. H. Haliday]. *Brit. Entomol.*, **8**: 385.
- Kathirithamby, J., 1993. Descriptions of Strepsiptera (Insecta) from Southeast Asia, with a checklist of the genera occurring in the region. *Raffles Bull. Zool.*, **41**(2): 173-201.
- Kathirithamby, J., 1994. Records and a checklist of Strepsiptera (Insecta) from Sri Lanka. *J. S. E. Asian Nat. Hist.*, **1**(1): 17-25.
- Kifune, T., & Y. Hirashima, 1983. Records of Strepsiptera from Australia and Sri Lanka in the collection of the Smithsonian Institution, with descriptions of four new species (Notulae Strepsipterologicae-XI). *Easkia*, **20**: 157-65.
- Kifune, T., & Y. Hirashima, 1989. Taxonomic studies on the Strepsiptera in the collection of Bishop museum (Notulae Strepsipterologicae-XX). *Esakia* **28**: 11-48.
- Kinzelbach, R. K., 1971. Morphologische Befunde an Fächerflüglern und ihre phylogenetische Bedeutung (Insecta : Strepsiptera). *Zoologica*, **119**: 256 pp.
- Kogan, M., & S. J. Oliveira, 1964. New Guinea Mengenidae und Myrmecolacidae of the American Museum of Natural History (Strepsiptera). *Studia Ent.* **7**(1): 459-70.
- Perkins, R. C. L., 1905. Leafhoppers and their natural enemies (Part III Stylopidae). *Bull. Hawaiian Sug. Plrs' Ass. Exp. Stn.*, No. **1**(3): 90-111.
- Saunders, S. S. 1872. Stylopidarum, ordinem Strepsipteorum Kirbii constituentium, mihi tamen potius Coleopterorum Familiae, Rhipiphoridis melodisque propinqua, Monographia. *Trans. ent. Soc. Lond.*, **1872**: 48pp.
- Westwood. J. O. 1861. Notice on the occurrence of strepsipterous insect parasitic in ants, discovered in Ceylon by Herr Nietner. *Trans. ent. Soc. Lond.* **5**: 418-20.