



## Systematic revision of the ormiine genera *Aulacephala* Macquart and *Phasioormia* Townsend (Diptera, Tachinidae)

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### Abstract

The tribe Ormiini comprises 64 species in six genera. In the present paper, the ormiine genera *Aulacephala* Macquart and *Phasioormia* Townsend are revised, with two valid species recognized in the former and three valid species recognized in the latter. All available nominal species in *Aulacephala* and *Phasioormia* were examined and are revised herein, so that previous synonymies could be confirmed. Furthermore, *Phasioormia papuana* **sp. nov.** is described from Papua New Guinea and Indonesia, and *Therobia punctigera* (Paramonov, 1955) is proposed as a new synonym of *Aulacephala hervei* Bequaert, 1922, **syn. nov.** Keys to species and illustrations of male and female terminalia are provided for both genera.

**Key words:** new species, new synonymy, Ormiini, systematics, taxonomy

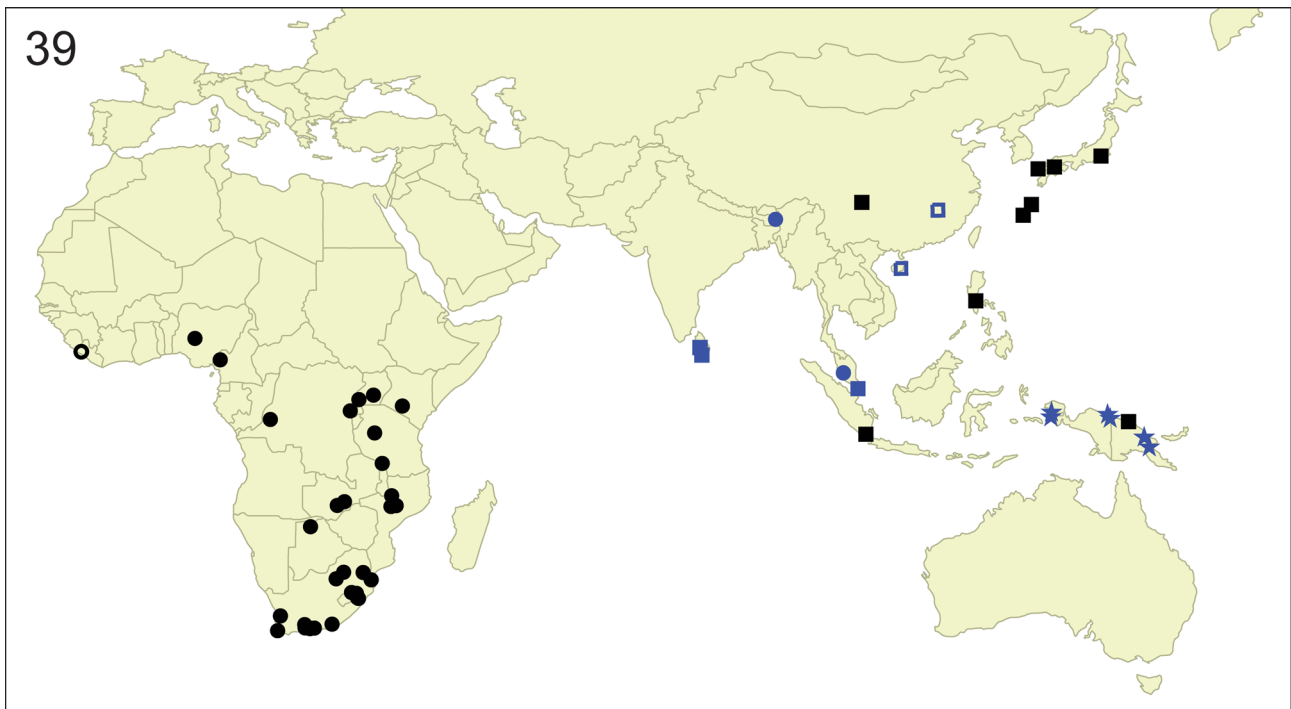
### Introduction

The tribe Ormiini includes 64 species and six genera in the world, namely *Aulacephala* Macquart, 1851 (2 species; Afrotropical, Oriental and Palaearctic), *Homotrixa* Villeneuve, 1914 (3 species; Australasian and Oriental), *Mediosetiger* Barraclough, 1983 (1 species; Afrotropical), *Ormia* Robineau-Desvoidy, 1830 (27 species; Neotropical and Nearctic), *Ormiophasia* Townsend, 1919 (9 species; Neotropical), *Phasioormia* Townsend, 1933 (2 species; Oriental), and *Therobia* Brauer, 1862 (20 species; Afrotropical, Australasian, Oriental and Palaearctic) (Guimarães 1971, Crosskey 1977, 1980, Cantrell & Crosskey 1989, Herting & Dely-Draskovits 1993, O'Hara & Wood 2004).

*Aulacephala* Macquart, 1851 comprises two species: *A. maculithorax* Macquart, 1851 (type species), which is widespread in the Afrotropical Region, and *A. hervei* Bequaert, 1922, distributed in Japan, China and Indonesia. Other species were described, but subsequently synonymized with *A. maculithorax* or *A. hervei* (Crosskey 1976, 1980). Table 1 summarizes all nominal species available in the genus and their current status (valid or not), as well as the type and non-type specimens studied herein.

*Phasioormia* Townsend, 1933 includes two species: *P. pallida* Townsend, 1933 (type species), distributed in Singapore, Philippines, Sri Lanka and China, and *P. bicornis* (Malloch, 1932), occurring in India, Malaysia and China.

In the present paper, the ormiine genera *Aulacephala* and *Phasioormia* are revised. A brief generic description and diagnosis are provided for *Aulacephala* and *Phasioormia*, along with identification keys to species. Descriptions and illustrations of all species recognized in both genera, including the characterization of the male and female terminalia, are presented. A new species of *Phasioormia* from Papua New Guinea and Indonesia is described. For this systematic revision, all nominal species available in *Aulacephala* and *Phasioormia* were examined (Table 1).



**FIGURE 39.** Geographical distribution of the genera *Aulacephala* (black circles: *A. maculithorax*; black squares: *A. hervei*) and *Phasioormia* (blue circles: *P. bicornis*; blue squares: *P. pallida*; blue stars: *P. papuana* **sp. nov.**). [Empty symbols denote inexact locality records, where the country or province capitals were arbitrarily used to plot the occurrence.]

**Type material examined.** Holotype male, DUTCH NEW GUINEA [INDONESIAN PAPUA], Humboldt Bay Dist. [Yos Sudarso Bay], Bewani Mts., ix.1937, W. Stüber leg. (BMNH). Paratypes: same data as holotype, 5 females (BMNH); DUTCH NEW GUINEA [INDONESIAN PAPUA]: Cyclops Mts., Sabron, Camp 2, 1 female, vii.1936 (2000ft), L.E. Cheesman leg. (BMNH); Fak-Fak, 1 female, A.E. Pratt leg. (C.J. Wainwright coll.), B.M. 1948-488 (BMNH); PAPUA [INDONESIAN PAPUA], Kokoda, 1200ft, 1 female, viii.1933, L.E. Cheesman leg. (BMNH); [PAPUA] NEW GUINEA: Madang Dist., Damanti, Pinisterre Mts. (3550ft), 1 female, 2-11.x.1964, M.E. Bacchus leg. (BMNH); NE Wau, 1200m, 1 male, 9.iii.1962 (light trap), J. & M. Sedlacek leg. (BMNH). [The male from NE Wau and the female from Fak-Fak were dissected and examined.]

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