



## The assassin bug genus *Haematoloecha* in Taiwan, with notes on species occurring in the neighbouring areas (Hemiptera: Heteroptera: Reduviidae: Ectrichodiinae)

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### Abstract

The species of the assassin bug genus *Haematoloecha* Stål, 1874 (Hemiptera: Heteroptera: Reduviidae: Ectrichodiinae) occurring in Taiwan are surveyed. Five species are recognized, two of them, *Haematoloecha curta* **sp. nov.** and *H. pusilla* **sp. nov.** are described as new. *Haematoloecha adachii* Tachikawa, 1968 and *H. nigrorubra* Distant, 1919 are recorded for the first time from Taiwan. *Haematoloecha nigrorubra* is recognized as having disjunct East Himalayan–Formosan distribution pattern; a new subspecies, *H. nigrorubra conspicua* **ssp. nov.** is described for members of the Taiwanese population. A revised diagnosis of *Haematoloecha* is provided, species known to occur in Taiwan are keyed. The synonymy of *H. nigriventris* (Fallou, 1887) with *H. nigrorufa* (Stål, 1867) is confirmed. The colour variability of *H. nigrorufa* is discussed. The following taxonomic changes are proposed: *Haematoloecha puetzi* (Kerzhner & Günther, 2004), **comb. nov.** (transferred from *Parascadra* Miller, 1954); *H. nigrorubra* Distant, 1919 = *H. yunnana* Hsiao & Ren, 1981, **syn. nov.**; *H. rubescens* Distant, 1883 = *H. laeta* Breddin, 1913, **syn. nov.** = *H. laeta* var. *ardens* Breddin, 1913, **syn. nov.** Lectotypes are designated for *H. nigriventris*, *H. nigrorubra*, *H. nigrorufa* and *H. rubescens*.

**Key words:** Heteroptera, Reduviidae, Ectrichodiinae, *Haematoloecha*, taxonomy, new species, Oriental Region, Taiwan

### Introduction

The assassin bug genus *Haematoloecha* Stål, 1874 (Hemiptera: Heteroptera: Reduviidae: Ectrichodiinae) has a relatively restricted distribution, occurring exclusively in East and Southeast Asia. In his recent catalogue, Maldonado Capriles (1990) listed 20 species. However, one of them, *H. longiceps* Miller, 1956 has been placed in synonymy with *H. rufithorax* (Breddin, 1903) by Miyamoto (1970), and *H. aberrans* Hsiao, 1973 was later synonymized with *H. limbata* Miller, 1953 by Lu and Cai (1994). *Ectrychotes iguchii* Matsumura, 1913 was transferred to *Haematoloecha* by Tomokuni and Cai (2002). Furthermore, we agree with Cook (1977), who noted that *H. ridleyana* Distant, 1902 (Singapore) does not belong to this genus (holotype deposited in BMNH was examined by the first author); this problem will be treated in another paper. Consequently, the number of described species in *Haematoloecha* is currently 18, although a few species are supposedly synonymous (see e.g. Fukui 1927; Putshkov & Putshkov 1996; Tomokuni & Cai 2002). So far, only *H. nigrorufa* has been mentioned in the literature to occur in Taiwan by Kato (1933) and a few subsequent authors, but without providing any concrete localities or collecting data.

The authors are undertaking a revision of the Reduviidae of Taiwan in a series of papers; the subfamilies Centrocnemidinae, Holoptilinae, Saicinae and part of Emesinae have already been completed (Rédei & Tsai 2009, 2010a, b, 2011). In the present paper, the species of *Haematoloecha* in Taiwan are surveyed. Five species are recognized, of which two are described as new. Taiwanese specimens of *H. nigrorubra* are considered to represent a new subspecies. Furthermore, new synonymies and new combinations are proposed, lectotypes are designated, and various other taxonomic comments are presented for taxa occurring in Taiwan and in the neighbouring areas of East and Southeast Asia.