The identity of Arhodia egenaria Walker, 1866 (Lepidoptera, Mimallonoidea, Mimallonidae) and a new synonym of Cicinnus melsheimeri (Harris, 1841)

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The holotypes of Arhodia egenaria Walker, 1866 and Cicinnus primolus Schaus, 1928, syn. n., were examined. Both names are junior synonyms of C. melsheimeri (Harris, 1841). Cicinnus melsheimeri (as Perophora egenaria), sensu Hampson, 1904, is a misidentification of C. bahamensis St Laurent & McCabe, 2016.

In their description of Cicinnus bahamensis St Laurent & McCabe, 2016 (Fig. 1), a species so far known only from the Bahamas, the authors failed to mention the previous literature report of Mimallonidae from the Bahamas by Hampson (1904). Hampson listed one mimallonid (=Perophoridae) from the Bahamas: Perophora egenaria (Walker, 1866), from Abaco, Nassau [New Providence], and Andros islands. Some of these specimens were located by the first author in The Natural History Museum, London, U.K. (NHMUK) and were included as paratypes in the description of C. bahamensis. At the time of the description of C. bahamensis, both authors were aware of the name egenaria, and had examined the holotype, recognizing it as a synonym of C. melsheimeri (Harris, 1841) in accordance with Schaus (1928), Gaede (1931), and Becker (1996). However, the authors of C. bahamensis were unaware of Hampson’s reference to a Bahamian mimallonid at the time. Therefore, we provide this correspondence to figure C. bahamensis together with the holotype of Arhodia egenaria (Fig. 2) and additional specimens of C. melsheimeri (Figs. 3, 4).

Cicinnus melsheimeri, described from Pennsylvania, USA, a rather variable species, is characterized by the pale gray coloration, with pinkish undertones, blood-red accent veins, and heavy stippling by dark brown petiolate scales over the entirety of all wings. The forewing postmedial line is straight, well-defined, and sharply angled towards the costa. No hyaline patches are present on the wings. These characteristics, combined with the accentuated, mesally convex, brown-edged margin of the forewings, and falcate apices are unique in the genus. This species is the only member of its genus reported from the eastern United States, found in forested areas where its host plant, various species of Quercus (Fagaceae), are found (Franclemont 1973). The name egenaria was synonymized with C. melsheimeri by Kirby (1892), and maintained in this synonymy by Schaus (1928), Gaede (1931), and Becker (1996). In Walker’s (1866) original description of A. egenaria, a type locality was not given. The holotype of A. egenaria does not bear locality information, but a label included in the tray, not pinned with the specimen, where the type is stored at the NHMUK reads: “Type Locality [USA (Ga)], syn. egenaria Walker.” This information supports maintaining this name as synonymous with C. melsheimeri, particularly in consideration of the external appearance and apparent locality of this specimen, such that no other Cicinnus species have been reported from the United States (Franclemont 1973).

The first author has examined photos (Fig. 3) of the holotype of C. primolus Schaus, 1928, deposited in Museum für Naturkunde der Humboldt-Universität zu Berlin, Germany (MNHU). The name C. primolus is also based on a specimen lacking locality information. Despite the absence of locality information, this specimen clearly represents the widespread North American species C. melsheimeri, and displays external characteristics wholly within the range of variation of this species (St Laurent pers. obs. in comparison with hundreds of C. melsheimeri specimens). Cicinnus melsheimeri can be confused with no other species in the genus, the first author has examined nearly all type specimens of Cicinnus species. Daniel Herbin (pers. comm.) who supplied photos of the holotype, has independently come to the same conclusion. Thus, we here synonymize the name C. primolus syn. n. with C. melsheimeri.
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References