



Article

Revision of Chinese Oretinae (Lepidoptera, Drepanidae)

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Abstract

The subfamily Oretinae from China is revised. Three genera and thirty species are reported from China. One new species *Oreta inflativalva* **sp. nov.** is described. Fourteen new synonyms are established: *Oreta obtusa dejeani* Watson (= *Oreta sinuata* Chu & Wang, **syn. nov.** = *Oreta asignis* Chu & Wang, **syn. nov.**); *Oreta speciosa* (Bryk) (= *Oreta hyalina* Chu & Wang, **syn. nov.**); *Oreta shania* Watson (= *Oreta bimaculata* Chu & Wang, **syn. nov.**, = *Oreta cera* Chu & Wang, **syn. nov.**); *Oreta flavobrunnea* Watson (= *Oreta dalia* Chu & Wang, **syn. nov.**); *Oreta pavaca pavaca* Moore (= *Oreta zigzaga* Chu & Wang, **syn. nov.**); *Oreta pavaca sinensis* Watson (= *Oreta fusca* Chu & Wang, **syn. nov.**, = *Oreta unichroma* Chu & Wang, **syn. nov.**, = *Oreta lushansis* Fang, **syn. nov.**); *Oreta trispinuligera* Chen (= *Oreta ankyra* Chu & Wang, **syn. nov.**); *Oreta hoenei hoenei* Watson (= *Oreta trianga* Chu & Wang, **syn. nov.**); *Spectroreta hyalodisca* Hampson (= *Spectroreta fenestra* Chu & Wang, **syn. nov.**); *Neoreta brunhyala* (Shen & Chen) **comb. nov.** (= *Spectroreta thumba* Xin & Wang, **syn. nov.**). The generic name *Neoreta* Warren, 1897 is revived for *Amphitorna* Turner, 1911. Four species are newly recorded for China. The female genitalia of *Oreta liensis* and *Oreta angularis* are described for the first time. Three misidentifications in Chu & Wang (1987) are corrected. Diagnoses for the subfamily, genera, and all species are provided. Illustrations of the adults and genitalia are provided.

Key words: China, *Oreta*, *Spectroreta*, *Neoreta*, taxonomy, new species, new synonyms

Introduction

The subfamily Oretinae, the smallest subfamily of the Drepanidae, was first proposed by Inoue (1962), and followed by many researchers, such as Watson (1965, 1967, 1968), Common (1970), Nakajima (1970), Wilkinson (1972), Fletcher (1979), Chu & Wang (1985, 1987, 1991), Kuznetsov & Stekolnikov (2001), and Smetacek (2002). The adults of Oretinae are distinguished from those of other subfamilies of Drepanidae by the absence of a functional proboscis in both sexes and a frenulum in the male. Larvae of Oretinae differ from those of Drepaninae by lacking of a supracoxal vesicle on each side of the prothorax (Minet 1985). Some authors (Scoble 1992; Holloway 1998; Minet & Scoble 1999) treat them as a subgroup or tribe rather than a subfamily, while recognizing their distinctive features. Wu *et al.* (2010) restored the Oretinae as a subfamily, based on a molecular phylogenetic study of the Drepanoidea.

The most substantial work on Oretinae was carried out by Watson (1965), who reviewed 10 genera and 62 species of the Ethiopian fauna. Later (Watson 1967), he published a detailed revision of 5 genera (*Oreta* Walker, 1855, *Urogonodes* Warren, 1903, *Astatochroa* Turner, 1926, *Spectroreta* Warren, 1903, *Cyclura* Warren, 1897) and 54 species of Oretinae occurring outside the Ethiopian region, erected 6 species groups, and treated 18 species of *Oreta*, 1 species of *Spectroreta*, and 2 species of *Cyclura* from China. In addition, generic characters were provided; affinities with other genera, the speciation and the distribution of *Oreta* were discussed. Other studies of Oretinae are regional. Inoue (1962) recorded three genera (*Oreta*, *Psiloreta* Warren, 1923, *Hypsomadius* Butler, 1877) and 5 species from Japan. Wilkinson (1972) recognized six species of *Oreta*, including two new species from Nepal, and established four synonyms. Fletcher (1979) listed 34 genera of Oretinae, of which 12 had been