



Five new species and one new subspecies of Micronoctuidae from China, with a checklist of Chinese species, including Taiwan (Lepidoptera: Noctuoidea, Micronoctuidae)

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Abstract

Five new species and one subspecies of the family Micronoctuidae (Lepidoptera, Noctuoidea) (*Bellulia bibella* sp. n., *Parachrostia pura* sp. n., *Tactusa virga* sp. n., *T. flexus* sp. n., *T. brevis* sp. n., and *T. discrepans yunnanensis* ssp. n.) are described from South China (provinces Yunnan and Guizhou). Three species, *Mimachrostia fasciata* Sugi, 1982, *T. discrepans* Fibiger, 2010 and *T. pars* Fibiger, 2010 are reported from China for the first time. An updated checklist of the Micronoctuidae from China, including Taiwan is presented consisting of 28 species and 2 two subspecies.

Key words: Lepidoptera, Noctuoidea, Micronoctuidae, new species, checklist, China, Taiwan

Introduction

As part of ongoing inventories of Palearctic Noctuoidea, new taxa in the recently described family Micronoctuidae were discovered in China. The aim of this article is to describe these new taxa and to present a complete checklist of the family Micronoctuidae in China. It is worth noting that no species of Micronoctuidae has been reported in the Chinese faunal and insect inventory literature previously (e.g., Chen 1999; Hua 2005). We report here a total of 29 species and 2 subspecies of Micronoctuidae in the subfamilies Pollexinae, Belluinae, Parachrostiinae, and Tactusinae from China, including Taiwan, for the first time. Additional species are being described (Fibiger in prep.), and more species are expected to occur in China, especially in the southern and south-eastern parts of continental China. *Mimachrostia fasciata* Sugi, 1982 found in adjacent areas of Russian Far East and Korea (Fibiger & Kononenko 2008), may also occur in northeast China.

For an overview of the Micronoctuidae and a comparison to the species treated here see the revision of Micronoctuidae, parts 1, 2 and 3 (Fibiger 2007, 2008, 2010) and other publications dealing with Micronoctuidae (Fibiger & Kononenko 2008; Kononenko 2010). Diagnoses for the new taxa described here are based on the autapomorphies for the species.

Material and Methods

During September 2008, about one hundred specimens of Micronoctuidae were collected by the second author using ultraviolet light in various biotopes in the southern Chinese provinces Yunnan and Guizhou. Specimens were pinned in the field and later spread in the laboratory. Genitalia were soaked in KOH for 10 hours, dissected in water, cleaned in isopropyl alcohol, placed under cover glass in euparal, photographed and identified. Eight species were recognised, including the five new species and one new subspecies described below. For the terminology used in the descriptions see Fibiger (2007). Collection acronyms used herein are as follows: NEFU = Northeast For-