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## **Review of the genus *Ypsolopha* Latreille, 1796 from China (Lepidoptera: Ypsolophidae)**

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## Abstract

We present a review of the Chinese species of the genus *Ypsolopha* Latreille. Of the 60 species treated herein, 21 species are described as new: *Y. flaviterminata* sp. nov., *Y. flavida* sp. nov., *Y. albula* sp. nov., *Y. longisaccata* sp. nov., *Y. fascimaculata* sp. nov., *Y. mucronulata* sp. nov., *Y. bicostata* sp. nov., *Y. latiuscula* sp. nov., *Y. purpurata* sp. nov., *Y. minuta* sp. nov., *Y. allochroa* sp. nov., *Y. brevivalva* sp. nov., *Y. longifloccosa* sp. nov., *Y. paristrigosa* sp. nov., *Y. umbrina* sp. nov., *Y. varentella* sp. nov., *Y. capitalba* sp. nov., *Y. triangula* sp. nov., *Y. aurea* sp. nov., *Y. chlorina* sp. nov., and *Y. bisticta* sp. nov.; eight species are newly recorded for the Chinese fauna: *Ypsolopha acerella* Ponomarenko, Sohn et Zinchenko, *Y. sarmaticella* (Rebel), *Y. albiramella* (Mann), *Y. altissimella* (Chrétien), *Y. albistriata* (Issiki), *Y. longa* Moriuti, *Y. saitoi* Moriuti and *Y. falcella* (Denis & Schiffermüller). A new species-group, the *albiramella*-group, is defined. *Ypsolopha hebeiensis* Yang, *Y. nigrofasciata* Yang, *Y. ulingensis* Yang and *Y. diana* (Caradja) are redescribed. One synonym is established: *Y. sordidella* Sohn et Wu, 2010 syn. n. (= *Y. sordida* Sohn et Wu, 2010). The male genitalia of *Y. japonica* Moriuti, *Y. altissimella* (Chrétien), *Y. diana* (Caradja), and the female genitalia of *Y. hebeiensis* Yang, *Y. sarmaticella* (Rebel), *Y. altissimella* (Chrétien), *Y. ulingensis* Yang, *Y. helva* Sohn et Wu and *Y. diana* (Caradja) are described for the first time. Photographs of the adults, wing venations and genitalia are provided. Keys for the identification of species-groups as well as the species of each species-group are included, along with a distribution map of all the known Chinese species.

**Key words:** China, distribution, key, morphology, new species, taxonomic review, Yponomeutiodea

## Introduction

*Ypsolopha* Latreille, 1796 is the largest genus of the family Ypsolophidae, consisting of nearly 140 described species worldwide. About 100 species are distributed in the Palearctic and Oriental regions, 30 species in the Nearctic Region, and the rest are scattered in other regions. Major contribution to the taxonomic study of *Ypsolopha* was made by the following scholars: Walsingham (1881 and 1889) and Busck (1903, 1906) recognized about 25 species from America; Meyrick (1914–1937) described 16 species, among which nine are from the Oriental Region (including four from Yunnan Province in southwestern China), three from the Neartic Region, and four from South Africa; Moriuti (1977) described 17 Japanese species; Zagulajev (1989) provided keys to 26 species of the European part of former USSR; and Agassiz (1996) described 13 species from Great Britain and Ireland.

Early contributors to the taxonomic study of the Chinese *Ypsolopha* include Meyrick (1938), Caradja (1939) and Yang (1977). Sohn et al. (2010) described two new species from China based on one worn male specimen