



Taxonomic study of the genus *Nemapogon* Schrank from China (Lepidoptera: Tineidae)

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Abstract

The genus *Nemapogon* Schrank, 1802 is reviewed in China. *Nemapogon flabellata* **sp. nov.**, *N. bidentata* **sp. nov.** and *N. ningshanensis* **sp. nov.** are described as new; *N. robusta* Gaedike, 2000 and *N. inconditella* (Lucas, 1956) are newly recorded for China. Photographs of the adults and the genital structures are provided, along with a key to the known Chinese species.

Key words: Lepidoptera, Tineidae, *Nemapogon*, new species, China

Introduction

The genus *Nemapogon* was established by F. Schrank in 1802 based on the type species *Phalaena granella* Linnaeus, 1758 (subsequently designated by Fletcher 1929: 146). To date, 48 species have been described from the Palaearctic Region (Zagulajev 1964; Petersen 1953, 1957, 1961, 1983; Căpuse 1967; Robinson 1980; Gaedike 1983, 1986, 2000; Petersen and Gaedike 1992; Sutter 2000), 12 from the Nearctic Region (Davis 1983), and nine from the Oriental Region (Fletcher 1933; Zagulajev 1964; Robinson 1980; Robinson and Tuck 1996). There are three widespread, nearly cosmopolitan storage pests, *N. granella* (Linnaeus, 1758), *N. cloacella* (Haworth, 1828) and *N. variatella* (Clemens, 1859) [= *personella* (Pierce & Metcalfe, 1934)] (Zagulajev 1964; Robinson and Nielsen 1993).

In China, *Nemapogon granella* was early reported from Tibet by Fletcher (1933), and subsequently studied as an important storage pest by Chinese scholars (Yang 1978; Chen 1984; Xie and Su 1992). The well known edible fungi pest *N. gerasimovi* Zagulajev, 1961 was also reported by Yang (1978), Robinson and Tuck (1996), and Zhang (2000). Robinson (1980) also recorded *N. asyntacta* (Meyrick, 1917) from Tibet when studying the Himalayan Nemapogoninae. Based on specimens collected from Heilongjiang, Henan, Jilin, Shaanxi, Sichuan, Tianjin, Xinjiang and Yunnan provinces, we report seven species from China, including three new species. Though reported to occur in China as a common pest, we did not find the species *N. granella* among the *Nemapogon* specimens in this study.

All the specimens studied, including the types, are deposited in the Insect Collection, College of Life Sciences, Nankai University, Tianjin, China.

Taxonomy

Nemapogon Schrank, 1802

Nemapogon Schrank, 1802: 167. Type species: *Phalaena granella* Linnaeus, 1758.

Brosis Hübner, 1822: 68. Type species: *Phalaena granella* Linnaeus, 1758.

Diaphthirusa Hübner, 1825: 404. Type species: *Phalaena granella* Linnaeus, 1758.