



Revision of the genus *Xenophysa* Boursin, 1969 (Lepidoptera, Noctuidae)

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Abstract

The genus *Xenophysa* Boursin, 1969 is revised. The revision contains the description of a new subgenus *Paraxenophysa*, and of a new species *Xenophysa pseudopoecila*, re-description of 2 species and revised status of 4 species. The genus is considered to include 12 species. The distribution and phylogeny of the genus is reviewed. Identification keys based on the male and female genitalia and maps of distribution of all known taxa are given.

Key words: taxonomy, Xestiina, genital characters, species groups, new taxa, redescrptions

Introduction

The purpose of this paper is to revise the noctuid genus *Xenophysa*, with description of one new subgenus, one new species, redescrptions of two species, and changes in status for four species. Material for this revision was drawn from the following institutional and private collections: Hungarian Natural History Museum, Budapest (HNHM); Landessammlungen für Naturkunde, Karlsruhe (LNK); Natural History Museum, London (BMNH); Naturhistorisches Museum, Wien (NHMW); Naturhistoriska Riksmuseet Stockholm (NHRS); Niederösterreichisches Landesmuseum, St. Pölten (NLM); Zoological Museum of the Russian Academy of Sciences, St. Petersburg (ZMRA); Zoological Museum of the University of Moscow (ZMUM); Zoologisches Museum der Humboldt-University, Berlin (ZMHB); Zoologisches Forschungsinstitut und Museum A. Koenig, Bonn (ZFMH); Zoologische Staatssammlung München (ZSM); coll. H.H. Hacker (Staffelstein, now in ZSM), coll. P. Gyulai (Miskolc), coll. G. Ronkay (Budapest), coll. Z. Varga (University of Debrecen).

Taxonomic part

Genus *Xenophysa* Boursin, 1969

Xenophysa Boursin, 1969, *Entomops* 2: 221. Type species: *Agrotis junctimacula* Christoph, 1887, *Mémoires sur les Lépidoptères, rédigés par N.M. Romanoff* 3: 67, pl. 3, fig. 11. Type locality: [Persia] “Shakuh”.

The genus *Xenophysa* was erected (1969, *Entomops* 2:221) for four species. *Agrotis junctimacula* Christoph, 1887 (*Mém. Rom.* 111: 67, pl. 3) was designated as type species of the new genus. *Agrotis cacumena* Brandt, 1938 (*Entom. Rundschau* 55: 502, fig. 96–98) and two newly described species, *X. xenogramma* (l.c.: 223, figs. 14, 16) and *X. monastica* (l.c.: 224, figs. 15, 17) were also associated with the genus. *Xenophysa* species seem to be generally—with the exception of the unique species *X. paradoxa* Varga, 1989—rather uniform both in external characters and male genitalia. *Xenophysa* belongs to the 7th generic group of the Xestiina subtribus of Noctuini (Lafontaine 1998) based on the following male genital characters: (i) Cucullus and corona reduced; (ii) valve with small subapical digitus; (iii) vesica simple without sclerotised structures; (iv) antrum and ductus bursae strongly sclerotised. *Xenophysa* species mostly can be compared with some smaller *Xestia*-related genera such as *Estimata* Kozhantschikow, 1928 (*Rev. russ. ent.* 22: 94), *Erebophasma* Boursin, 1963 (*Forsch. Ber. Land. Nordrhein-West-*