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## New Noctuidae (s.l.) species from the Korean fauna with description of a new species of *Bryophila* Treitschke, 1825 (Lepidoptera: Erebidae and Noctuidae)

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### Abstract

Eight Erebidae and Noctuidae species are reported for the first time from Korea. The taxonomic positions of another two formerly misidentified species, *Abrostola korbi* and *Diachrysia witti*, are discussed. The Korean species of the *Bryoleuca granitalis* species-group are characterised and a new species of the group, *Bryoleuca volodia* sp. n. from Vietnam, is described and illustrated.

**Key words:** Noctuidae, Erebidae, Korea, Vietnam, new species, new records

### Introduction

The first monographic catalogue of the Korean Noctuidae s.l. was published by Kononenko *et al.* (1998), summarising information in the broad sense about Noctuidae (recently four families, Nolidae, Erebidae, Euteliidae and Noctuidae) (Zahiri *et al.* 2011) occurring in the Korean peninsula. This catalogue was updated ten years later by Kononenko & Han (2007) who revised the recently published taxonomic and faunistic results and published the genitalia of both sexes of all available species of the Korean Noctuidae s.l. Since then, four species have been recorded as new for the fauna of Korea (Park *et al.* 2008; Choi 2010; Kim *et al.* 2010; Sohn & Choi 2013).

The revision and re-arrangement of the Noctuoidea collection of the Mokpo National University (MNU) resulted in the discovery of another eight species occurring in Korea. Most species were found in the southernmost areas of the Korean peninsula and the islands surrounding the coastal parts of South Korea, including the island Jeju. Detailed information about the distribution of these species and the short diagnoses aiding their identification are provided below, along with colour illustrations and in certain cases the genitalia. The repeated discovery of what was formerly considered a Japanese endemic, *Bryoleuca parva*, in Korea offered an opportunity to review the *Bryoleuca granitalis* species-group and describe the most southerly distributed member of the lineage, *Bryoleuca volodia* sp. n. from Vietnam. Abbreviation: HNHM, Hungarian Natural History Museum, Budapest.

### Species recorded for the first time from Korea

#### Family Erebidae

#### Subfamily Boletobiinae

#### *Sarcopteron fasciata* (Wileman & South, 1917)

(Plate 1, fig. 1)

*Dunira fasciata* Wileman & South, 1917, *Entomologist* 50: 145. Type locality: Japan, Yamato Prov., Yoshino.

**Distribution.** Northern Pacific. The species occurs in the Russian Far East (Primorye and south of Khabarovsk territory, the Kurili Islands), the Korean peninsula and Japan.

**Remarks.** Kobayashi (2011) distinguished *A. pacifica* Dufay, 1960 and *A. korbi* in the *Standard of Moths in Japan II*, maintaining the two names and mentioning only *A. pacifica* as occurring in Japan. The possible reason for this is a partial confusion of the genitalia of *A. korbi* with *A. sugii*. The male clasping apparatus shown as *A. korbi* in the picture KU2 (page 154) belongs to *A. sugii*, while the aedeagus and the female are correctly attributed to *A. korbi*. The genitalia shown under the name *A. pacifica* (page 153, fig. KU1/d) are correctly presented although the armature of the aedeagus is somewhat aberrant, the other features are, however, matching the “regular genitalia characteristics of the species. As the holotype of *A. korbi* is a rather damaged female specimen, Dufay (1960) also overlooked the conspecificity of his *A. korbi* with the newly described *A. pacifica*. The taxonomic situation was clarified by Behounek *et al.* (2010); occurrence of *Abrostola korbi* in Japan is re-instated due to the synonymy of *A. pacifica* with *A. korbi*.

### ***Diachrysia witti* Ronkay, Ronkay & Behounek, 2008**

(Plate 3, fig. 24)

*Diachrysia witti* Ronkay, Ronkay & Behounek, 2008, *The Witt Catalogue* 1: 32, plate 5, figs 3–4, plate 40, figs 7–9, gen. fig. 18. Type locality: Russia, Vladivostok.

**Synonymy.** *Diachrysia bieti* sensu auctorum, nec Oberthür, 1884 (Ronkay *et al.* 2008).

**Diagnosis.** The species is rather remote within the entire *chryson*-lineage (Ronkay *et al.* 2008). It can be distinguished easily from the other members of the *D. leonina*-*D. bieti* lineage by its dark grey-brown ground colour with fine golden-bronze sheen, well-defined antemedial, medial, postmedial and subterminal crosslines and the uniformly darkened hindwing. The distinctive features of the male genitalia, in comparison with *D. leonina*, *D. oberthueri*, and *D. bieti*, are the longer, stronger uncus, the more rounded, medially broadest valvae, the much shorter vinculum, the reduced terminal cornutus; those of the female genitalia are the more or less straight ductus bursae and the rather short, elliptical-ovoid corpus bursae.

**Distribution.** A Sino-Pacific species, occurring in the temperate parts of the Pacific region (Russian Far East: Primorye, Korea, Japan, north-east China) and in the Central Chinese mountains in Shaanxi (Ronkay *et al.* 2008).

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