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Abstracts

The geometrid moths of Yemen – With 50 new records for the country and description of 20 new taxa (Lepidoptera: Geometridae)

Axel Hausmann

In the last census of the geometrid moth fauna of Yemen (Hacker & Hausmann 1999), 118 species were listed for the fauna of Yemen, including Sokotra island. In this paper 50 geometrid species are reported as new for the fauna, raising the total species number of Geometridae to 168 species. With this, the Yemen fauna has, by far, exceeded the species numbers of the faunas of Saudi Arabia and Jordan amounting to 142 and 131 species, respectively (Wiltshire 1990; 1994; Hausmann 1991).

Seventeen new species, and three new subspecies are described: *Idaea contrastata* spec. nov., *Idaea fumigata* spec. nov., *Idaea amputata tigrata* subsp. nov., *Idaea coronata* spec. nov., *Idaea inspiculata* spec. nov., *Idaea macrospinata* spec. nov., *Idaea variabilis* spec. nov., *Idaea monticola* spec. nov., *Idaea tineigidiata* spec. nov., *Zygophyxia retracta* spec. nov., *Zygophyxia ochrea* spec. nov., *Lycaugidia lithostegeata* spec. nov., *Scopula riedeli* spec. nov., *Cyclophora staudei* spec. nov., *Pseudosterrha colettae* spec. nov., *Orbamia becki* spec. nov., *Xenimpia sabae* spec. nov., *Xenimpia sabae amarei* subsp. nov. (Ethiopia), *Cleora rostella adoniae* subsp. nov., *Tephronia yemenitica* spec. nov.

Stegania sennarensis Rebel, 1917, described from Sudan, is downgraded from species rank to synonymy of *Heterostegane serrata* (Fletcher, 1958) (syn. nov.). *Idaea cornutosa* Wiltshire, 1986, described from Saudi Arabia, is downgraded from species rank to synonymy of *Brachyglossina tibbuana erythra* Wiltshire, 1990 (syn. nov.). One name (*Acidalia vinnularia* Rebel, 1907) is deleted from the fauna list, having been recognized as a junior synonym of *Acidaliastis micra* Hampson, 1896. The monobasic taxon *Tricentroscelis* Prout, 1916 is downgraded from generic rank to synonymy of *Discomiosis* Prout, 1915 (syn. nov.), with the type species being transferred: *Discomiosis protrusifrons* (Prout, 1916), comb.nov., *Scopula pallidisalsa* (Prout, 1932), stat. nov., is raised from subspecies of *Scopula rufisalsa* (Warren, 1897) to species rank. The three species *Pasiphila socotrensis* (Herbulot, 1994), *Pasiphila derasata* (Bastelberger, 1905), and *Pasiphila lita* (Prout, 1916) are transferred from *Chloroclystis* (Scoble 1999) to the genus *Pasiphila* (comb. nov.).

Micronoctuidae, Noctuidae (s.l.), and Hyblaeidae of the Yemen Arab Republic, with a biogeographical analysis (Lepidoptera)

Hermann H. Hacker and Michael Fibiger

This paper is an approach to understand the role and position of the fauna of Yemen from a biogeographical point of view. Nine main zoogeographical categories are defined, most of them with intercontinental distribution patterns between the Palearctic, Oriental and Ethiopian Regions. The table including 460 species collected during the German expeditions in 1996, 1998 and 2000 lists all species according to their biogeographical regions. 129 species were recorded for the first time for the fauna of the Arabian Peninsula, 89 further species for the first time for the fauna of Yemen.

Updated list of Micronoctuidae, Noctuidae (s.l.), and Hyblaeidae species of Yemen, collected during three expeditions in 1996, 1998 and 2000, with comments and descriptions of species

Hermann H. Hacker and Michael Fibiger

Descriptions of new taxa

Cryphia merhaba Hacker & Fibiger spec. nov.

Heteropalpia makabana Hacker & Fibiger spec. nov.

Antarchaea malhamana Hacker & Fibiger spec. nov.

Lyncestis knudlarseni Hacker & Fibiger spec. nov.

Lyncestis kruegeri Hacker & Fibiger spec. nov.

Lyncestis dargei Hacker & Fibiger spec. nov.

Lygephila bischoffi Hacker & Fibiger spec. nov.

Eutelia gaedei Hacker & Kobes spec. nov.

Eutelia discedens Hacker & Fibiger spec. nov.

Lophoptera arabica Hacker & Fibiger spec. nov.

Oedicodia schreieri Hacker & Fibiger spec. nov.

Callyna gaedei Hacker & Fibiger spec. nov.

Iambia berioi Hacker & Fibiger spec. nov.

Melionica pallescens Hacker & Legrain spec. nov.

Melionica mulanjensis Hacker & Legrain spec. nov.

Melionica subrubella Hacker & Legrain spec. nov.

Eublemma topi Fibiger & Hacker, spec. nov.

Eublemma trollei Fibiger & Hacker, spec. nov.

Additions and corrections to the list of Bombyces, Sphinges and Noctuidae of the Southern Ural Mountains. Part I. (Lepidoptera: Lasiocampidae, Lemoniidae, Sphingidae, Notodontidae, Noctuidae, Pantheidae, Lymantriidae, Nolidae, Arctiidae)

Kari Nupponen & Michael Fibiger

Additional records to the recently published list of bombyces, sphinges and Noctuidae of the Southern Ural mountains (Nupponen & Fibiger 2002) is presented. The material was collected during 2002-2005 in 7 different expeditions. Two new species are described: *Dasytopia timoi* Fibiger & K. Nupponen spec. nov. and *Agrotis frater* Fibiger, Ahola & K. Nupponen spec. nov.. *Nola crambiformis* Rebel, 1902 is redescribed and the external appearance of the moth as well as male and female genitalia are illustrated for the first time. Eight species are reported for the first time from Europe: *Eremodrina expansa* (Alphéraky, 1887), *Eremodrina inumbrata* (Staudinger, 1900), *Polymixis atossa* (Wiltshire, 1941), *Polymixis rosinae* (Bohatsch, 1908), *Pseudohadena arenacea* L. Ronkay, Varga & Fabian, 1995, *Pseudohadena cymatodes* (Boursin, 1954), *Xestia subgrisea* (Staudinger, 1897), *Chelis caecilia* (Kindermann, 1853). The occurrence of *Orthosia ella* (Butler, 1878) in Europe is confirmed, based on old material preserved in Zoological Institute, St. Petersburg. Altogether, records of 162 species are reported, including a few corrections to the previous article (Nupponen & Fibiger 2002). Further illustrations and notes on some poorly known taxa are given.

New Noctuidae from from Iran and Tibet

L. Ronkay and P. Gyulai

Present paper contains the descriptions of nine new species from Iran (*Thargelia attila* spec. nov., *T. balazsi* spec. nov.; *Agrochola (Alpichola) elbursica* spec. nov., *A. (Anchoscelis) fuscomixta* spec. nov., *Polymixis (Eremophysa) pirkadatka* spec. nov., *Eremohadena toerpexa* spec. nov., *Dryobotodes glaucus* spec. nov., *Omphalophana serrulata* spec. nov. and *Atethmia sinuata* spec. nov., respectively) and another new hadenine species (*Lasianobia illauta* spec. nov.) from Tibet. With 26 colour pictures and 34 genitalia figures.

Two new Noctuidae (Lepidoptera) species from Iran

László Ronkay and Péter Gyulai

Present paper contains the descriptions of two new Noctuidae species from Iran: *Polymixis* (s. l.) *fibrillata* spec. nov. and *Pseudoligia lucifer* spec. nov. With 6 colour pictures and 10 genitalia figures.

Two new Isochlora species (Lepidoptera, Noctuidae, Heliiothinae) from Tibet

Péter Gyulai and László Ronkay

Present paper contains the descriptions of two new *Isochlora* species, *I. (I.) ochreicosta* spec. nov. and *I. (Chamyla) mirabilis* spec. nov. from Tibet, with the detailed comparison of the related taxa.

New Noctuidae taxa from Iran and Turkey (Lepidoptera)

Péter Gyulai and László Ronkay

Present paper is a continuation of a series dealing with the novelties of the Iranian and Turkish Noctuidae fauna. Two new species: *Eugnorisma* (s.l.) *persago* spec. nov. and *Xestia* (s.l.) *kecskerago* spec. nov. (both from Iran) and two new subspecies, *Ammoconia senex transhamadanensis* subspec. nov. (Iran) and *E.* (s.l.) *persago peterseni* subspec. nov. (Turkey) are described.

New taxa of Noctuidae, Noctuinae from Iran and Central Asia (Lepidoptera)

Peter Gyulai & Zoltan Varga

Two new Noctuinae species: *Euxoa eremopersa* spec. nov. (Iran) and *Euxoa submelanochroa* spec. nov. (Tadjikistan, Pakistan) and two new subspecies: *Chersotis gratissima zaghros* subspec. nov. and *Dichagyris zagroica azeri* subspec. nov. (both from Iran) are described.