

Esperiana Band 9

Esperiana Buchreihe zur Entomologie Bd 9: 1-606, 25 Taf. Schwanfeld, 20. Dezember 2002

ISBN 3-9802644-8-3

25 Farbtafeln, zahlreiche Abbildungen

Herbst- und Frühjahrsbeobachtungen zur Noctuidae-Fauna in Nord-Griechenland (Lepidoptera, Noctuidae) (Hartmut WEGNER) 7

The Noctuid Moths of the South of Russia and the Northern Caucasus (Lepidoptera) (Alexander N. POLTAVSKY & Andrej V. NEKRASOV) 21

Smerinthus cinerascens STAUDINGER, 1879 status novus (Lepidoptera: Sphingidae) (Jan MIATLEUSKI, Povilas IVINSKIS & Vidmantas KARALIUS) 49

Insect Fauna of Yemen Part III 55

Die Pterophoridae der 2. Jemen-Expedition durchgeführt im Frühjahr 1998 von den Herren A. BISCHOF, J. BITTERMANN, M. FIBIGER, H. HACKER, H. PEKS, & H.-P. SCHREIER (ERNST ARENBERGER) 57

Scythridids of the Arabian Peninsula, II: Yemen (Lepidoptera, Scythrididae) (BENGT A. BENGTSSON) 61

Neuroptera collected by the German Yemen expeditions 1996, 1998 und 2000 (Neuroptera: Chrysopidae, Hemerobiidae, Berothidae, Mantispidae, Nemopteridae, Myrmeleontidae, Ascalaphidae) (Herbert HÖLZEL) 129

Stoermeriana nabataea sp. n., eine neue Lasiocampiden-Art aus Südwestjordanien (Lepidoptera: Lasiocampidae) (Josef J. DE FREINA) 147

Zur Phänologie und Biologie von *Bufoidia ledereri* (KOCÁK, 1981) und ihrer Präimaginalstadien mit Nachweis von Saisondimorphismus (Lepidoptera: Lasiocampidae) (Josef J. DE FREINA) 153

Additional notes on the Heteroptera (Insecta: Hemiptera) of Yemen II. (Rauno E. LINNAVUORI & Antonius van HARTEN) 157

Thyrididae, Uraniidae and Noctuidae (Lepidoptera) from the Arabian Peninsula with descriptions of new species (Hermann H. HACKER, Michael FIBIGER & Albert LEGRAIN) 189

New species of Noctuidae, Noctuinae from Iran and Central Asia (Zoltán VARGA, Péter GYULAI and Jan MIATLEUSKI) 207

Benshirachia, a new genus of Noctuidae, Noctuinae (Lepidoptera) from Iran (Péter GYULAI, Zoltan VARGA and László RONKAY) 226

New taxa of Noctuidae, Hadeninae from West and Central Asia (Zoltán VARGA and Péter GYULAI) 229

Four new *Hadula* STAUDINGER, 1889 Taxa from Asia (Lepidoptera : Noctuidae) (Péter GYULAI) 231

Beitrag zur Fauna der Noctuidae des Iran: Verzeichnis der Bestände im Staatlichen Museum für Naturkunde Karlsruhe, taxonomische Bemerkungen und Beschreibung neuer Taxa (Noctuidae, Lepidoptera) (Günter EBERT und Hermann H. HACKER) 237

Two new species of the *Polymixis-Mniotype* complex (Lepidoptera, Noctuidae) from Asia (B. BENEDEK and Lászlo RONKAY) 409

A taxonomic survey of the genus *Scotocampa* STAUDINGER, 1888, with descriptions of a new genus and two new species (Noctuidae, Hadeninae) (Péter GYULAI and Lászlo RONKAY) 418

Orthopteroid Insects from Pakistan (Adrienne GARAI) 429

Band 8 (2001): Ergänzungen und Korrekturen (Hermann H. HACKER) 446

“Evolution Canyon” model: Interslope differences in Noctuidae (Lepidoptera) of two canyons in Carmel and Galilee Mountains, Israel (Vasilij D. KRAVCHENKO & Eviatar NEVO) 449

The Butterflies of Delhi, India. An Annotated Check-List (Insecta; Rhopalocera) (Torben B.LARSEN) 457

The *Eublemma* HÜBNER, [1821] species of Yemen, with description of ten new species (Lepidoptera, Noctuidae, Eublemminae) (Part 1) (Michael FIBIGER & Hermann H. HACKER) 481

A new species in the genus *Dichagyris* LEDERER, 1857 hitherto regarded as the Turkish form of *D. eremicola* (STANDFUSS, 1888): *Dichagyris wilsoni*, sp. n. (Lepidoptera, Noctuidae) (Michael FIBIGER) 511

Index: Taxonomische Änderungen/taxonomic changes 520

Index: Genera und Spezies 522

Tafeln/Plates 1-25 555

Zusammenfassungen (Auswahl)

Die Pterophoridae der 2. Jemen-Expedition durchgeführt im Frühjahr 1998 von den Herren A. BISCHOF, J. BITTERMANN, M. FIBIGER, H. HACKER, H. PEKS, & H.-P. SCHREIER

Ernst Arenberger

Zusammenfassung: Insgesamt werden Fundortangaben von 20 Pterophoridae aus dem Untersuchungsgebiet gemeldet. Davon wird *Platyptilia albifimbriata* sp. nov. als neue Arten in die Wissenschaft eingeführt. Die Imago und das Genitale der neuen Art wird abgebildet.

Zur Phänologie und Biologie von *Bufoidia ledereri* (KOCAK, 1981) und ihrer Präimaginalstadien mit Nachweis von Saisondimorphismus (Lepidoptera: Lasiocampidae)

Josef J. de Freina

Abstract: Several rearings of the early stages of *Bufoidia ledereri* (KOCÁK, 1981) from Jordan have revealed new informations on the biology of this eremial east saharoarabian species. The larva and moths of two consecutive generations, reared on *Prunus* sp. are illustrated. Larvae of *ledereri* strongly resemble those of closely related *Bufoidia pittawayi* WILTSHIRE & LEGRAIN, 1997, but differ also in some characteristic marks. First time seasonal variation for the same genetic population is provided. Study of quantitative variation in monochrome or different *ledereri*-populations proofs also a colour polymorphism in adaption to different coloured desert substrata. However, the phenotypic variation of this local variations seem to have no genetic basis.

***Stoermeriana nabataea* sp. n., eine neue Lasiocampiden-Art aus Südwestjordanien (Lepidoptera: Lasiocampidae)**

Josef J. de Freina

Abstract: A new Arabian Lasiocampid moth, *Stoermeriana nabataea* DE FREINA, sp. n. is described from the upper levels of edom mountain region in SW-Jordan. Detailed illustrations of both sexes and genitalia, antenna, legs and epiphysis of male are provided. *S. nabataea* was confused with Saudi Arabian *Pachypasa sultani* WILTSHIRE, 1986, even there is no coincidence between patterns and morphological form of the genitalia. Therefore, male and {-genitalia of the latter are figured.

In zoogeographical respects this probably endemic relic *Stoermeriana nabataea* is an eremial element. The new species prefers warm, dry rocky sandstone expanses with little vegetaion in open mediterranean steppe-forests. The early stages of *nabataea* are still unknown, in all probability the larval foodplant should be *Cupressus sempervirens* L. var. *horizontalis* (MILL.) GORDON or (?and) *Juniperus phoenica* L. (Cupressaceae, Cupressoideae). *Stoermeriana nabataea* was taken in the middle of march and seems to be univoltine.

Beitrag zur Fauna der Noctuidae des Iran: Verzeichnis der Bestände im Staatlichen Museum für Naturkunde Karlsruhe, taxonomische Bemerkungen und Beschreibung neuer Taxa (Noctuidae, Lepidoptera)

Günter Ebert und Hermann H. Hacker

1. Einleitung
2. Übersicht über die Bestände im Staatlichen Museum für Naturkunde Karlsruhe, mit Angaben zu den Fundorten und Sammelexkursionen
3. Taxonomische Bemerkungen und Beschreibung neuer Taxa
4. Gesamtverzeichnis der vorhandenen Arten und Unterarten, mit faunistischen Bemerkungen
5. Literatur

The *Eublemma* HÜBNER, [1821] species of Yemen, with description of ten new species (Lepidoptera, Noctuidae, Eublemminae). (Part 1)

Michael Fibiger & Hermann Hacker

Summary : The first part of the *Eublemma* species recorded during three expeditions to Yemen has been determined and described. It is done with reference to the faunas of the Middle East, southern Asia, northern, eastern and southern Africa. 31 species are dealt with here, 29 of which are found from Yemen. The imagines are illustrated; and the male and female genitalia of all but two of the species are illustrated.

Ten new species are described:

Odice mukallai FIBIGER & HACKER, sp. n.;

Eublemma maxima FIBIGER & HACKER, sp. n.;

Eublemma globus FIBIGER & HACKER, sp. n.;

Eublemma fredii FIBIGER & HACKER, sp. n.;

Eublemma indistincta FIBIGER & HACKER, sp. n.;

Eublemma oliva FIBIGER & HACKER, sp. n.;

Eublemma alexi FIBIGER & HACKER, sp. n.;

Eublemma biparva FIBIGER & HACKER, sp. n.;

Eublemma miniparva FIBIGER & HACKER, sp. n.; and

Eublemma gerti FIBIGER & HACKER, sp. n.

Six new synonyms are stated:

Areopterella FIBIGER & HACKER, 2001, syn. n. of *Areopterella* by DYAR, 1914

Coccidiphaga SPULER, 1907, syn. n. of *Eublemma* HÜBNER, [1821]

Eupsoropsis BERIO, 1969, syn. n. *Eublemma* HÜBNER, [1821]

Coccidiphaga turatii BERIO, 2002, syn. n. of *Eublemma scitula* (RAMBUR, 1833)

Eublemma parvula MOORE, 1881, syn. n. of *Eublemma parva* (HÜBNER, [1808])

Porphyria parva lactescens TURATI, 1924, syn. n. of *Eublemma parva* (HÜBNER, [1808])

Three new taxonomic combinations are established:

Araeopteron sterrhoides (FIBIGER & HACKER, 2001), comb. n.

Eublemma scitula (RAMBUR, 1833), comb. n.;

Eublemma apicimacula (MABILLE, 1880), comb. n.;

Herbst- und Frühjahrsbeobachtungen zur Noctuidae-Fauna in Nord-Griechenland (Lepidoptera, Noctuidae)

Hartmut Wegner

Inhalt : In den Jahren 1998-2001 wurden zur Noctuidae-Erfassung sechs Reisen - vier im Herbst, zwei im Frühjahr - nach Nord-Griechenland durchgeführt. Das Reiseziel war vor allem die Umgebung von Konitsa in der nördlichen Provinz Ioánnina/Epirus. Aus dem vorrangigen Einsatz von Köderschnüren zur Falteranlockung resultieren diverse ergänzende Daten zur Verbreitung und Abundanz bisher in Griechenland wenig beobachteter Arten. Diese Arten werden kurz kommentiert. Nach den ausgewerteten Publikationen oft in Griechenland nachgewiesene Arten bleiben unberücksichtigt. Bei einigen Arten werden Hinweise zur Bionomie gegeben. Das Habitat von *Lithophane ledereri* wird ausführlich beschrieben. Drei Arten sind Neufunde für Griechenland: *Xanthia ocellaris*, *Lithophane semibrunnea*, *Polia nebulosa*.

Abstract : Aiming at Noctuidae registration six journeys to Northern Greece took place in the years from 1998 to 2001 - four during autumn and two in spring-time. The main destination was the environment of Konitsa/ Epirus. By mainly using lure cords to attract the butterflies some supplementary data resulted as to the distribution and abundance of species hitherto less known in Greece. These species will be given a short comment. Species that are known from many locations in Greece will not be given further comment. For some species hints will be given concerning bionomy. The habitat of *Lithophane ledereri* will be described in particularity. Three species were not known in Greece up to now: *Xanthia ocellaris*, *Lithophane semibrunnea*, *Polia nebulosa*.

Four new *Hadula* STAUDINGER, 1889 Taxa from Asia (Lepidoptera : Noctuidae)

Peter Gyulai

Abstract: Descriptions of *Hadula* (*Hadula*) *orientalis* sp. n. (China, Qinghai), *Hadula* (*Cardiestra*) *longicucullus* sp. n. (Kirgisia, Terskey Alatau), *Hadula* (*Cardiestra*) *vassilini* deserta ssp. n. (Iraq, Schibchah stone desert) and *Hadula* (*Ptochicestra*) *ptochica iranica* ssp. n. (Iran: Esfahan, Kerman, Khorassan) are given. With 8 colour illustrations and 11 photographs of genitalia.

Additional notes on the Heteroptera (Insecta: Hemiptera) of Yemen II.

Rauno E. Linnavuori and Antonius van Harten

Abstract: A list of the Heteroptera collected in Yemen between 1996 and 2001 is provided. 49 species are recorded as new for Yemen. The following new taxa are described separately: Enicocephalidae: *Alkowdiella raunoi* STYS 2002, sp.n., *A. palaceki* STYS 2002, sp.n., Leptopodidae: *Lahima hero* Linnavuori and van Harten 2002 (in press), gen. et sp.n., Reduviidae: *Oncocephalus pericarti* Moulet 2001, *Ectomocoris ochronigrescens* Moulet 2000, sp.n., Miridae: *Isometopus yemenensis* Akingbohunge 2002 (in press), sp.n., *I. quadrivittatus* Akingbohunge 2002 (in press), sp.n., *Myiomma maculata* Akingbohunge 2002 (in press), sp.n., *Peritropis vanharteni* Linnavuori & Gorczyca 2002, *Teratophylum ehsanae* Linnavuori and van Harten 2002 (in press), sp.n., Lygaeidae: *Trinithignus themis* Linnavuori and van Harten 2002 (in press), sp.n., and *Lethaeus kowdanus* Linnavuori and van Harten 2002 (in press), sp.n.

Two new species of the *Polymixis-Mniotype* complex (Lepidoptera, Noctuidae) from Asia

B. Benedek and L. Ronkay

Abstract. Two new species, *Polymixis calligrapha* sp. n. (from the Pakistani Himalayas and the Karakoram Mts) and *Mniotype fabulosa* sp. n. (from Iranian Baluchestan) are described.

Neuroptera collected by the German Yemen expeditions 1996, 1998 und 2000

(Neuroptera: Chrysopidae, Hemerobiidae, Berothidae, Mantispidae, Nemopteridae, Myrmeleontidae, Ascalaphidae)

Herbert Hölzel

Abstract. Neuroptera recently collected in the Yemen Arab Republic have been studied and 63 species were identified and are listed here. This number includes descriptions of three new species of the family Myrmeleontidae and 35 first records. *Myrmecaelurus fallax* n.sp., *Myrmeleon yemenicus* n.sp. and *Nicarinus secundus* n.sp. are described as new and figures of the wings and of essential parts of the genital segments are provided.

Orthopteroid Insects from Pakistan

Adrienne Garai

Abstract: Orthopteroid insects from Northern Pakistan. A list of 21 species of Ensifera, 54 Caelifera, 4 Mantodea, 2 Blattodea, 1 Phasmatodea and 1 Dermaptera collected by Gy. M. László & G. RONKAY in May 1998; by A. GARAI & P. GYULAI in September 1998; by B. BENEDEK & G. RONKAY in August 2001 and a few species collected by S. Becva in 1993, by V. Major in 1995 and by G. RONKAY & Z. Varga in 2000. Three species of Ensifera (*Leptophyes purpureopunctatus* sp. n., *Phytodrymadusa gyulaipeteri* sp. n. and *Glyphonotus ingrisci* sp.n.), three species of Caelifera (*Gomphomastax bulbosus* sp. n., *Gomphomastax monsoonica* sp. n., *Gomphomastax moderata* sp. n.), as well as one new subspecies (*Aeropus sibiricus babusarius* ssp. n.) are new to science; and the male of *Iranusa grisea* INGRISCH, 1994 is described here for the first time.

The Noctuid Moths of the South of Russia and the Northern Caucasus(Lepidoptera)

A. N. Poltavsky & A. V. Nekrasov

Between 1972-2002, we collected Noctuidae moths at light and bait traps. The results of these investigations were published in a few articles (reference list II). The collecting was carried out in 70 localities in the region, in different habitats and altitudes. between 1876-1962 by such well-known entomologists as S. N. ALPHÉRAKY, I. V. Kozhantchikov, M. A. RJABOV and others entomologists (reference list I).

In the present catalogue we have included all references, our original materials and data from collections of the Zoological Museum of the Moscow University (ZMU) and the Zoological Institute of the Russian Academy of Science (St. Petersburg). There are 684 Noctuidae species altogether in this catalogue; 606 species (88.5%) were caught between 1972-2001; 495 species (72.3%) are known from references (1876-1962) and from museums collections; 416 species (60.7%) were detected during both periods of investigations, 79 species were recorded only before 1972 and 189 species only since 1972.

Scythridids of the Arabian Peninsula, II: Yemen (Lepidoptera, Scythrididae)

Bengt Å. Bengtsson

Abstract. In this paper 50 species of the family Scythrididae from Yemen are dealt with of which 39 are new to science. All new species are described, their external appearance and their genitalia are illustrated. 18 species are earlier known from Yemen or from adjacent areas and our current knowledge about their distribution is presented.

Resumé. Dans cet article 50 espèces de la famille Scythrididae du Yémen sont traité de lesquels 39 sont neuves pour la science. Toutes les nouvelles espèces sont décrit, leurs dehors et sont genitalies sont illustrée. 18 espèces sont déjà connu du Yémen ou des territoires voisines et nous connaissance actuelle sur leurs terrains sont présentés.

Zusammenfassung. In diesem Artikel wird ein Bericht von über 50 Arten der Familie Scythrididae aus dem Jemen, von denen 39 neu für die Wissenschaft sind, gegeben. Alle neuen Arten werden beschrieben, Habitus und Genitalien illustriert. 18 Arten wurden bereits früher aus dem Jemen oder aus benachbarten Gebieten gemeldet; unsere jetzigen Kenntnisse über ihre Ausbreitung werden zusammengefaßt.

Smerinthus cinerascens* STAUDINGER, 1879 *status novus

Jan Miatleuski, Povilas Ivinskis & Vidmantas Karalius

Abstract. The taxon *Smerinthus ocellata cinerascens* STAUDINGER, 1879 is raised to the rank of species *Smerinthus cinerascens* STDGR (stat. nov.). A brief description is given and morphological differences from *S. ocellata ocellata* are pointed out. It is noted that *S. cinerascens* is smaller, grey; the setae of the antennae are of the same length as the antennal segments; the gnathos narrows from its base towards the crest; the anellus is only slightly sclerotised, the lateral lobes are broad and the base short and blunt; the distal spine of the aedeagus is almost straight; the caecum is upturned; the vesica is small, with few cornuti, some of which are very long. A description of the localities of *S. cinerascens* is given, together with a consideration of its evolutionary origin.

Limacodidae, Uraniidae and Noctuidae (Lepidoptera) from the Arabian Peninsula with descriptions of new species

Hermann H. Hacker, Michael Fibiger & Albert Legrain

Summary. Five new species: *Subanua stassarti* HACKER & LEGRAIN sp. n., *Hadjina arabica* HACKER & LEGRAIN sp. n., *Euplexia jabalsabira* HACKER & FIBIGER sp. n., *Amazonides aulombardi* HACKER & LEGRAIN sp. n., *Cryphia (Cryphia) arabtrricula* HACKER sp. n. and one new subspecies: *Auchenisa cerurodes asiriensis* HACKER & FIBIGER sp. n., are described. Some taxonomic problems concerning Yemen and Arabian Noctuidae discussed. Representatives of the families Limacodidae and Uraniidae, and some new genera and species of Noctuidae are added to the Arabian fauna.