ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 491-509

REVISION OF THE GENUS *PRIONCHULUS* COBB, 1916 (NEMATODA: MONONCHINA). II. *PRIONCHULUS SPECTABILIS* (DITLEVSEN, 1911) COBB, 1916 AND RELATED SPECIES

Grażyna Winiszewska[1] and Andrij Susulovsky[2]

[1]*Department of Systematics and Zoogeography, Museum and Institute of Zoology, PAS, Wilcza 64, 00-679 Warszawa, Poland*
[2]*State Museum of Natural History, Theatralna str. 18, L'viv 79008, Ukraine*

Abstract.— This paper deals with eight species belonging to the genus *Prionchulus* Cobb, 1916. *P. spectabilis* (Ditlevsen, 1911) and *P. longus* (Thorne, 1929) are redescribed on the basis of the type material. Six new species: *P. kralli* **sp. nov.**, *P. pinophilus* **sp. nov.**, *P. polonicus* **sp. nov.**, *P. pseudolongus* **sp. nov.**, *P. septentrionalis* **sp. nov.**, and *P. thornei* **sp. nov.** are described and illustrated.

Key words.— Morphology, nematodes, new species, *Prionchulus*, taxonomy.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 511-514

THE SOUTH AMERICAN MILLIPEDE GENUS *PHANEROMERIUM* VERHOEFF, 1941, WITH THE DESCRIPTION OF A NEW CAVERNICOLOUS SPECIES FROM BRAZIL (DIPLOPODA: POLYDESMIDA: FUHRMANNODESMIDAE)

Sergei Golovatch[1] and Jolanta Wytwer[2]

[1]*Institute for Problems of Ecology and Evolution, Russian Academy of Sciences, Leninsky pr. 33, Moscow 119071 (V-71), Russia; e-mail: sgol@orc.ru*
[2]*Museum and Institute of Zoology, Polish Academy of Sciences, Wilcza 64, 00-679 Warszawa, Poland; e-mail: jolawyt@robal.miiz.waw.pl*

Abstract.— Considering the discovery of a new cave-dwelling species in northeastern Brazil, the Neotropical millipede genus *Phaneromerium* Verhoeff, 1941 currently encompasses ten species, all keyed. *P. cavernicolum* **sp. nov.** from Bahia, Brazil is mainly characterised by some traits of troglomorphism and certain details of gonopod structure.

Key words.— Diplopoda, Fuhrmannodesmidae, *Phaneromerium*, *Phaneromeruim cavernicolum*, key, cave, Brazil.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 515-518

BURSHTYNOGENA FERECI GEN. AND SP. NOV. (EPHEMEROPTERA: HEPTAGENIIDAE) FROM EOCENE BALTIC AMBER

Roman J. Godunko[1*] and Elżbieta Sontag[2]

[1]*State Museum of Natural History, National Academy of Sciences of Ukraine, Teatral'na str. 18, 79008 L'viv, Ukraine; e-mail: godunko@museum.lviv.net*
[2]*Department of Invertebrate Zoology, University of Gdańsk, Al. Marszałka Piłsudskiego 46, 81-378 Gdynia, Poland; e-mail: esontag@sat.ocean.univ.gda.pl*
**To whom the correspondence and reprint requests should be addressed*

Abstract.— *Burshtynogena fereci* **gen.** and **sp. nov.** from Eocene Baltic amber is described and illustrated. *Burshtynogena* gen. nov. differs from other known Heptageniidae genera by the combination of the following characters: pterostigmatic area only with simple, not anastomoused veins; furcasternal protuberances of mesothorax almost rectangular; hind wing narrow (the width/length ratio = 0.45) with well developed venation; tarsal claws dissimilar on all legs; subgenital plate small, narrow, poorly developed, shallow sinuous; subanal plate with slightly concave posterior margin.

Key words.— Ephemeroptera, Heptageniidae, *Burshtynogena*, *Burshtynogena fereci*, Eocene, Baltic amber.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 519-524

ECDYONURUS RIZUNI SP. NOV. (EPHEMEROPTERA: HEPTAGENIIDAE) FROM THE EASTERN CARPATHIANS

Roman J. Godunko[1], Małgorzata Kłonowska-Olejnik[2*] and Tomáš Soldán[3]

[1]*State Museum of Natural History, National Academy of Sciences of Ukraine, Teatral'na 18, L'viv 79008, Ukraine, e-mail: godunko@museum.lviv.net*
[2]*Department of Hydrobiology, Institute of Environmental Sciences, Jagiellonian University, Gronostajowa 3, 30-387 Kraków, Poland, e-mail: klon@eko.uj.edu.pl*
[3]*Institute of Entomology, Academy of Sciences of the Czech Republic, Branišovská 31, CZ-37005, České Budějovice, Czech Republic, e-mail: soldan@entu.cas.cz*
** To whom the correspondence and reprint requests should be addressed*

Abstract.— *Ecdyonurus rizuni* **sp. nov.** is described and illustrated from the Chornohora mountain-range of the Eastern Carpathians (Ukraine) (male imago and subimago, mature larvae and eggs). The new species belongs to the *Ecdyonurus helveticus*-group and is closely related to *Ecdyonurus subalpinus* Klapálek, 1907. Some data concerning its affinities, distribution and biology are discussed.

Key words.— Ephemeroptera, Heptageniidae, *Ecdyonurus helveticus*-group, new species, taxonomy, Eastern Carpathians.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 525-528

A REVIEW OF THE SPECIES OF *HYBOS* MEIGEN, 1803 FROM GUANGDONG (DIPTERA: EMPIDOIDEA: HYBOTINAE)

Xingyue Liu[1], Ding Yang[1*] and Patrick Grootaert[2]

[1]*Department of Entomology, China Agricultural University, Beijing 100094, China*
[2]*Department of Entomology, Royal Belgian Institute of Natural Sciences, Vautierstraat 29, B-1000 Brussels, Belgium*
**To whom the correspondence and reprint requests should be addressed*

Abstract.— The species of the genus *Hybos* Meigen, 1803 from Guangdong are reviewed. The following two species are described as new to science: *Hybos guangdongensis* and *H. nanlingensis*. A key to the species of the genus from Guangdong is presented.

Key words.— Empidoidea, Hybotinae, *Hybos*, new species, Guangdong.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 529-539

DESCRIPTION OF THE DEVELOPMENTAL STAGES OF *HESPERUS RUFIPENNIS* (GRAVENHORST, 1802) (COLEOPTERA: STAPHYLINIDAE), WITH COMMENTS ON ITS BIOLOGY

Bernard Staniec

Department of Zoology, Maria Curie-Sklodowska University, Akademicka 19, 20-033 Lublin, Poland; e-mail: bledius@wp.pl

Abstract.— The egg, three larval instars and pupa of *Hesperus rufipennis* (Gravenhorst) are described for the first time, with the illustrations of structural features provided. Differences in the morphological structure of its larval instars (L_{1-3}) cover: the number of setae on profemur and protibia, number of setae on tarsungulus, chaetotaxy of abdominal tergites, the structure of antenna and urogomphi, body colour and measurements. Diagnostic characters of immature stages of *H. rufipennis* are listed. Modifications of the keys to known eggs, larvae and pupa of the European Staphylininae species are proposed. Some data on its biology (life cycle, duration of immature stages, ecological preferences) are also given. It is a univoltine species with summer larvae and wintering imagines. Considering its environmental preferences and biology, this rove beetle may be of essential importance as a good umbrella species and environmental state indicator as well.

Key words.— Coleoptera, Staphylinidae, *Hesperus rufipennis*, egg, larva, pupa, biology.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 541-552

REVISION OF AFRICAN *ECTATEUS* GROUP (COLEOPTERA: TENEBRIONIDAE: PLATYNOTINI). PART I. INTRODUCTION AND GENUS *NESOPATRUM* GEBIEN, 1920

Dariusz Iwan

Department of Systematics and Zoogeography, Museum and Institute of Zoology, Polish Academy of Sciences, Wilcza 64, 00-679 Warszawa, Poland; e-mail: darek@robal.miiz.waw.pl

Abstract.— The member of the African *Ectateus* group ("platynotoid" lineage), monotypic genus *Nesopatrum* Gebien, 1920 (type species: *Opatrinus josephi* Karsch, 1881), is revised and illustrated. *Nesopatrum* Gebien is the first time recorded as a genus of the tribe Platynotini due to the structure of strydulatory gula and "platynotoid" type of aedeagus. The following new synonym is proposed: *Anchophthalmus densaticollis* Fairmaire, 1887 (=*Phallocentrion praelacinatum* Koch, 1956). Key to the genera of *Ectateus* group and distribution are provided.

Key words.— entomology, taxonomy, revision, Coleoptera, Tenebrionidae, Platynotini, *Nesopatrum*, *Phallocentrion*, Africa.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 553-556

TAXONOMIC PLACEMENT OF THE AUSTRALIAN GENUS *DAULIS* ERICHSON, 1842 WITH DESCRIPTION OF A NEW SPECIES (COLEOPTERA: ENDOMYCHIDAE)

K. Wioletta Tomaszewska

Museum and Institute of Zoology, Polish Academy of Sciences; Wilcza 64, 00-679 Warszawa, Poland
e-mail: wiolkat@robal.miiz.waw.pl

Abstract.— *Daulis monteithi*, a new species from Queensland and New South Wales is described and illustrated. A key to the known species of the genus is provided. The similarities and relationships of *Daulis* with *Archipines* Strohecker and *Daulotypus* Lea are briefly discussed.

Key words.— Entomology, taxonomy, new species, key, Coleoptera, Endomychidae, Lycoperdininae.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 557-559

LABIDOSTOMIS KANTNERI SP. NOV. FROM IRAN (COLEOPTERA: CHRYSOMELIDAE: CLYTRINAE)

Andrzej Warchałowski

Zoological Institute, University of Wrocław, Sienkiewicza 21, 50-335 Wrocław, Poland

Abstract. — *Labidostomis* (s. str.) *kantneri* **sp**. **nov.** from Iran is described and illustrated. Its relation to allied species is discussed.

Key words. — Entomology, Coleoptera, Chrysomelidae, *Labidostomis kantneri*, Iran.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 561-566

A REVIEW OF THE *LOCHMAEA CRATAEGI* (FORSTER, 1771) SPECIES GROUP FROM ASIA MINOR, NEAR EAST AND CAUCASUS (COLEOPTERA: CHRYSOMELIDAE: GALERUCINAE)

Jan Bezděk

Mendel University of Agriculture and Forestry, Department of Zoology, Zemědělská 1, 613 00 Brno, Czech Republic, e-mail: bezdek@mendelu.cz

Abstract.— *Lochmaea crataegi* group is established for four previously described species: *L. crataegi* (Forster, 1771), *L. limbata* Pic, 1898, *L. setulosa* (Sahlberg, 1913) and *L. machulkai* Roubal, 1926. The species from Asia Minor, Near East and Caucasus (*L. setulosa* and *L. machulkai*) are revised on the base of type material. *L. machulkai* is removed from synonymy and the lectotype is designated. Male genitalia of *L. machulkai* and *L. limbata* are illustrated for the first time. *L. limbata* is newly recorded for Iran and Jordan, *L. setulosa* for Turkey and *L. machulkai* for Azerbaijan, Armenia, Gruzia, Iran and Turkey.

Key words.— taxonomy, redescription, lectotype designation, Coleoptera, Chrysomelidae, Galerucinae, *Lochmaea*.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 567-578

AUTRIMPUS SAMBIORUM GEN. AND SP. NOV. FROM EOCENE BALTIC AMBER AND NOTES ON MNEMOSYNINI STAT. NOV. (HEMIPTERA: FULGOROIDEA: CIXIIDAE)

Jacek Szwedo

Department of Systematics and Zoogeography, Museum and Institute of Zoology, Polish Academy of Sciences, Wilcza 64, PL 00-679 Warszawa, Poland; e-mail: szwedo@miiz.waw.pl

Abstract.— *Autrimpus sambiorum* **gen.** et **sp. nov.** to comprise fossil from Eocene Baltic amber is described. The characters of Cixiidae planthoppers ascribed to subtribe Mnemosynina of tribe Pentastirini are discussed and new rank of the group as tribe Mnemosynini **stat. nov.** is proposed. The status of the extinct and extant taxa ascribed to Mnemosynini and characters of the tribe are discussed.

Key words.— *Autrimpus*, *Autrimpus sambiorum*, Mnemosynini, new rank, Cixiidae, fossil, Eocene Baltic amber, taxonomy.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 579-586

A REDESCRIPTION AND NATURAL HISTORY OF *HYLLUS TRELEAVENI* PECKHAM ET PECKHAM, 1902, THE LARGEST JUMPING SPIDER IN AFRICA (ARANEAE: SALTICIDAE)

Wanda Wesołowska[1] and Meg S. Cumming[2]

[1] *Zoological Institute, Wrocław University, Sienkiewicza 21, 50-335 Wrocław, Poland; e-mail: tomwes@biol.uni.wroc.pl*
[2] *19 Walmer Drive, Highlands, Harare, Zimbabwe, e-mail: cumming@icon.co.zw*

Abstract.— *Hyllus treleaveni* Peckham et Peckham, 1902 is redescribed. *H. moestus* Peckham et Peckham, 1903, *H. bevisi* Lessert, 1925 and *H. marleyi* Lessert, 1925 are recognised as junior synonyms of *H. treleaveni*. The new distributional data are mapped. Data on the species' natural history and observations from captive specimens are also presented.

Key words.— Arachnology, Araneae, Salticidae, *Hyllus treleaveni*, synonyms, Afrotropical Region.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 587-590

SALTICIDAE (ARACHNIDA: ARANEAE) FROM THE ORIENTAL, AUSTRALIAN AND PACIFIC REGIONS, XVIII. *HUNTIGLENNIA* – A NEW GENUS FROM AUSTRALIA

Marek Żabka[1] and Michael R. Gray[2]

[1]*Katedra Zoologii AP, 08-110 Siedlce, Poland, marekzabka@ap.siedlce.pl*
[2]*Australian Museum, Sydney, 6 College Street, NSW 2010, mikeg@austmus.gov.au*

Abstract.— *Huntiglennia williamsi* **gen.** and **sp. nov.** is described from New South Wales, Australia. Remarks on relationships and biology are provided and diagnostic drawings and distributional map is given.

Key words.— Salticidae, Australia, new genus, new species.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 591-594

SALTICIDAE (ARACHNIDA: ARANEAE) OF NEW ZEALAND. GENUS *ADOXOTOMA* SIMON, 1909

Marek Żabka

Katedra Zoologii AP, 08-110 Siedlce, Poland, marekzabka@ap.siedlce.pl

Abstract.— The genus *Adoxotoma* Simon, 1909 is newly recorded from New Zealand. Its relationships are discussed, diagnostic drawings and a distributional map of *Adoxotoma forsteri* **sp. nov.** are given.

Key words.— Araneae, Salticidae, new species, New Zealand, taxonomy, zoogeography.

ANNALES ZOOLOGICI (Warszawa), 2004, 54(3): 595-630

A REVISION OF EUROPEAN JOHNSTONIANINAE THOR, 1935 (ACARI: PROSTIGMATA: PARASITENGONA: TROMBIDIOIDEA)

Andreas Wohltmann[1*], Joanna Mąkol[2] and Grzegorz Gabryś[3]

[1] *Findorffstr. 11, D-27721 Ritterhude, Germany, e-mail: wohltman@uni-bremen.de*
[2] *Department of Zoology and Ecology, Agricultural University of Wrocław, Kożuchowska 5b, 51-631 Wrocław, Poland, e-mail: makol@ozi.ar.wroc.pl*
[3] *Department of Biology, Institute of Biotechnology and Environmental Sciences, University of Zielona Góra, Monte Cassino 21B, 65-561 Zielona Góra, Poland, e-mail: g.gabrys@ibos.uz.zgora.pl*
** to whom all correspondence should be sent*

Abstract.— The family Johnstonianidae is revised with special reference to its monophyly, and the European Johnstonianinae are evaluated. Complete data including descriptions of larvae and postlarval instars of the following species are provided: *Centrotrombidium schneideri* Kramer, 1896, *Diplothrombium longipalpe* (Berlese, 1887), *D. carpaticum* (Štorkan, 1938), *Johnstoniana errans* (Johnston, 1852), *J. eximia* (Berlese, 1910), *J. parva* Wendt, Wohltmann, Eggers et Otto, 1994 and *J. rapax* Wendt et Eggers, 1994. *Diplothrombium wittei* **sp. nov.** is described from the adult instar, *D. creticum* **sp. nov.** and *D. rackae* **sp. nov.** are described from larvae. Neotypes of *Centrotrombidium schneideri* Kramer, 1896, *Diplothrombium carpaticum* (Štorkan, 1938) and *Johnstoniana errans* (Johnston, 1852) are designated. Additional data on ecological requirements, geographical distribution, life cycle and feeding of particular instars are given. Tabular keys to world genera and species of Johnstonianinae are provided.

Key words.— Taxonomy, biology, Johnstonianidae, Tanaupodidae, Hydrachnidia, Chyzeriidae, Trombellidae, new species, neotypes, new synonyms.