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RAMBUTANURA CARCHARIA, A NEW SPECIES OF COLLEMBOLA (NEANURIDAE: NEANURINAE) FROM VIETNAM

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Abstract.— A new species of the genus *Rambutanura* Deharveng, 1988 from northern Vietnam is described and illustrated. *R. carcharia* **sp. nov.** is related to *Rambutanura malayana* (Yosii, 1976) described from Malaysia. The new species is characterised by tridentate mandible, moderate plurichaetosis on tubercles and absence of sensilla on head and thorax I.

Key words.— Entomology, taxonomy, Collembola, Neanuridae, Neanurinae, Rambutanura, new species, Vietnam.

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BRACHYDESMUS NEVOI, A NEW MILLIPEDE FROM ISRAEL (DIPLOPODA: POLYDESMIDA)

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Abstract.— *Brachydesmus nevoi* **sp. nov.** is described from several places in Israel. This new species shows modest but evident morphism/variation in structure of the gonopod exomere, being the first in the family Polydesmidae to be recorded in the Levant. It seems to be particularly close to several Balkan congeners, but differs in lack of any teeth on the gonopod femoral and/or prefemoral parts and, above all, in a remarkably prominent accessory seminal chamber.

Key words.— Diplopoda, *Brachydesmus*, new species, morphism, Israel.

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A SPLIT-FOOTED LACEWING AND TWO EPIOSMYLINES FROM THE JURASSIC OF CHINA (NEUROPTERA)

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Abstract.— The first Chinese fossil of the family Nymphidae (Neuroptera: Myrmeleontiformia) is briefly described and figured along with two episomyline Osmylidae, a generally plesiomorphic group which can be easily confused with nymphids when only wings are known. Four new species and three new genera are characterized from Jurassic deposits of the Jiulongshan Formation (Daohugou Biota), Inner Mongolia, China. New genera are *Liminympha* (Nymphidae), *Enodinympha* (Osmylidae), and *Nilionympha* (Osmylidae), while the new species are *Liminympha makarkini*, *Enodinympha translucida*, *Nilionympha pulchella*, and *N. imperfecta*.

Key words.— Neuroptera, Myrmeleontiformia, Nymphidae, new genus, new species, Jurassic, Mesozoic, Osmylidae, Epiosmylinae, China.

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A NEW FOSSIL GENUS OF SIPHLONURIDAE (INSECTA: EPHEMEROPTERA) FROM THE DAOHUGOU, INNER MONGOLIA, CHINA

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Abstract.— A new genus and species *Multiramificans ovalis* **gen.** and **sp. nov.** of the family Siphlonuridae *s.l.*, is described from the Middle Jurassic Jiulongshan Formation of the Daohugou, Inner Mongolia in China. Detailed description and illustration of the specimen along with a brief review of fossil Siphlonuridae *s.l.* are given. The problems of association between nymphs and adults, and palaeonvironment are briefly discussed.

Key words.— Ephemeroptera, Siphlonuridae, *Multiramificans*, *Multiramificans ovalis*, new genus, new species, fossils, Daohugou, Middle Jurassic, China.

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NEOMEDETERA, A NEW GENUS IN THE SUBFAMILY MEDETERINAE (DIPTERA: DOLICHOPODIDAE) FROM CHINA

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Abstract.— A new genus, *Neomedetera*, from China is erected and type species *Neomedetera membranacea* sp. nov. is described. The new genus has reduced 8th sternum and basoventral foramen as its unusual characters. A key to separate the Palaearctic and Oriental genera of Medeterinae is presented.

Key words.— Dolichopodidae, Medeterinae, *Neomedetera*, new genus, China.

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NEW BEETLES (INSECTA: COLEOPTERA: ARCHOSTEMATA) FROM THE LATE MESOZOIC OF NORTH CHINA

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Abstract.— Two new genera including four new species of fossil beetles assigned to the family Schizophoridae – *Menopraesagus explanatus* **gen.** and **sp. nov.**, *M. oxycerus* **gen.** and **sp. nov.**, *M. grammicus* **gen.** and **sp. nov.** and *Homocatabrycus liui* **gen.** and **sp. nov.**, and a new genus including one new species assigned to the family Ademosynidae – *Lasiosyne euglyphea* **gen.** and **sp. nov.** are described. All of them are collected from the Middle Jurassic Jiulongshan Formation of eastern Inner Mongolia, China. Another two new fossil species referable to the genus *Tetraphalerus* of family Ommatidae, *Tetraphalerus latus* **sp. nov.** and *Tetraphalerus curtinervis* **sp. nov.**, are reported from the Jehol Biota of western Liaoning, China.

Key words.— Schizophoridae, Ademosynidae, Ommatidae, Jiulongshan Formation, Yixian Formation, China, new genera, new species, fossil beetles.

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A CONTRIBUTION TO THE NEOTROPICAL GENUS *ACINACES* GERSTAECKER (COLEOPTERA: ENDOMYCHIDAE) WITH DESCRIPTIONS OF NEW SPECIES

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Abstract.— Two new species of the Neotropical genus *Acinaces* (*A. nataliae* and *A. humeralis*) from Peru are described, diagnosed and illustrated. The following new status is proposed: *A. stroheckeri* Tomaszewska, 2003 (=*A. lebasii stroheckeri* Tomaszewska, 2003). Notes on the colour variation of *A. laceratus*, the most variable species of the genus are provided. The key to the known species of the genus is updated.

Key words.— Entomology, taxonomy, new species, key, Coleoptera, Cucujoidea, Lycoperdininae, *Acinaces*.

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TAXONOMICAL CHANGES IN PALAEARCTIC LUPERINI (COLEOPTERA: CHRYSOMELIDAE: GALERUCINAE)

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Abstract.— Based on the examination of type material and study of literature sources, the following nomenclatural changes are proposed: *Nymphius stylifer* ssp. *ogloblini* (Bogatchev, 1947) (stat. nov.); *Scelolyperus* Crotch, 1874 = *Tuomuria* Chen et Jiang, 1985 (**syn. nov.**) = *Tuomueria* Chen et Jiang, 1986 (**syn. nov.**); *Scelolyperus tibialis* (Chen et Jiang, 1985) (**comb. nov.**) = *Tuomueria tibialis* Chen et Jiang, 1986 (**syn. nov.**) = *Scelolyperus kroliki* Borowiec, 2005 (**syn. nov.**); *Calomicrus apicalis* Demaison, 1891 = *C. peyroni* (Pic, 1899) (**syn. nov.**); *C. albanicus* (Csiki, 1940) (**comb. nov.**) = *C. macedonicus* (Tomov, 1975) (**syn. nov.**); *C. syriacus* (Weise, 1924) = *Monolepta anatolica* Bezděk, 1998 (**syn. nov.**). *Calomicrus heydeni* (Weise, 1900) is confirmed as synonym of *C. lividus* (Joannis, 1865). *Luperus sibiricus* Csiki, 1916 proved to be *Luperomorpha* Weise, 1887, thus it is transferred from Galerucinae to Alticinae. Lectotypes are designated for *Luperus albanicus* Csiki, 1940, *L. brevicollis* Weise, 1898, *L. cous* Weise, 1889 and *L. rhilensis* Weise, 1900. The drawings of male genitalia are provided for most of the species studied.

Key words.— Taxonomy, new synonymy, new combination, status novum, lectotype designation, Coleoptera, Chrysomelidae, Galerucinae, Alticinae, Luperini, *Calomicrus*, *Luperus*, *Luperomorpha*, *Nymphius*, *Monolepta*, *Scelolyperus*, *Tuomeria*, *Tuomueria*, Palaearctic Region.

ANNALES ZOOLOGICI (Warszawa), 2007, 57(2): 267-270

THREE NEW ORIENTAL SPECIES OF THE GENUS *FALSOTITHASSA* PIC, 1934 (COLEOPTERA: TENEBRIONIDAE: LUPROPINI)

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Abstract.— Three new species of the genus *Falsotithassa* Pic, 1934 (Tenebrionidae: Lupropini) are described: *Falsotithassa gigantea* **sp. nov.** from Thailand and Laos, *Falsotithassa sulawesica* **sp. nov.** from Sulawesi and *Falsotithassa thailandica* **sp. nov.** from Thailand. Some new faunistical data of and taxonomic remarks to known species are added. At present, 10 species are recognized as valid within the genus, occurring exclusively in the Oriental region.

Key words.— Coleoptera, Tenebrionidae, Lupropini, *Falsotithassa*, new species, taxonomy, distribution.

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A NEW SPECIES OF THE GENUS *ASIDA* LATREILLE, 1802 FROM FRENCH SOUTHERN ALPS (INSECTA: COLEOPTERA: TENEBRIONIDAE)

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Abstract.— *Asida christianperezi*, new species from French Southern Alps is described and illustrated. To complete the description, ecological and biogeographical comments are given.

Key words.— Insecta, Coleoptera, Tenebrionidae, Asidini, *Asida christianperezi*, new species, France, Southern Alps.

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RÉVISION DES GENRES *GONIADERA* PERTY, 1830 ET MICROGONIADERA PIC, 1913 (COLEOPTERA: TENEBRIONIDAE: LAGRIINAE: GONIADERINI)

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Abstract.— The types of all species belonging to the genus *Goniadera* Perty, 1830 are studied. The lectotype of *Melandrya repanda* Fabricius, 1801, is designated. Eight new species of *Goniadera* are described: *Goniadera ardoini* **sp. nov**., Brasil, *G. barclayi* **sp. nov**., Brasil and Peru, *G. girardi* **sp. nov**., *G. jaegeri* **sp. nov**., *G. merkli* **sp. nov**., Brasil, *G. onorei* **sp. nov**. from Ecuador, *G. peseudorepanda* **sp. nov**. from Costa Rica and Mexico and *G. floresi* **sp. nov**. from Argentina. *Goniadera simplex* Fairmaire, 1889 is transferred to *Aemyone* Bates, 1868, but this genus is degraded to sub-genus of *Goniadera*. The name *Goniadera* (*Aemyone*) *simplex* (Fairmaire, 1889) **comb. nov**., is proposed. The genus *Opatresthes* Gebien, 1928 is studied and considered as another sub-genus of *Goniadera*. *Goniadera tuberculifera* Fairmaire, 1889 is trasferred to this genus, the new name *Goniadera* (*Opatresthes*) *tuberculifera* (Fairmaire, 1889) **comb. nov.**, is proposed. A new species from Nicaragua: *Goniadera* (*Opatresthes*) *maesi* **sp. nov**. is described. A key to separate all sub-genera and species is provided. *Etaceta aeneicolor* Fairmaire, by monotypy is excluded from the tribu Goniaderini and its position in the tribu Lupropini sensu Ardoin (1969) is confirmed. New synonymies are recognised: *Goniadera simplex* Fairmaire (= *Aemyone bordoni* Marcuzzi, 1994) **syn. nov.**, *Aemyone cariosa* Fairmaire, 1873 (= *Anaedus striatipennis* Pic, 1917) **syn. nov.** and (*Aemyone silvanae* Marcuzzi, 1994) **syn. nov**.; *Aemyone crenata* Champion, 1886 becoming homonymic with *Goniadera crenata* Perty, 1830 is changed in *Goniadera* (*Aemyone*) *championi* **nom. nov.**

Résumé.— La totalité des types des espèces du genre *Goniadera* Perty, 1830 sont étudiés. Le lectotype de *Melandrya repanda* Fabricius, 1801 est désigné. Huit espèces nouvelles sont décrites: *Goniadera ardoini* **sp. nov**. du Brésil, *G. barclayi* du Brésil et Pérou, *G. girardi* **sp. nov**., *G. jaegeri* **sp. nov**. et *G. merkli* **sp. nov**., Brésil, *G. onorei* **sp. nov**. du Equateur, *pseudorepanda* **sp. nov**. du Costa Rica et du Mexique, et *G. floresi* **sp. nov**., d´Argentine. *Goniadera simplex* Fairmaire, 1889 est transféré dans le genre *Aemyone* Bates, 1868, considéré comme un sous-genre de *Goniadera*, le nom *Goniadera* (*Aemyone*) *simplex* (Fairmaire) **comb. nov.** est proposée. *Goniadera tuberculifera* Fairmaire, 1889 est transférée dans le genre *Opatresthes* Gebien, 1928, qui est égalément considéré comme un sous-genre de *Goniadera*. Le nouveau nom *Goniadera* (*Opatresthes*) *tuberculifera* (Fairmaire, 1889) **comb. nov.** est proposé. Une nouvelle espèce du Nicaragua, *Goniadera* (*Opatresthes*) *maesi* **sp. nov**. est décrite. Une clé pour séparer tous les sous-genres et espèces est donnée. *Etaceta aeneicolor* Fairmaire est exclu de la tribu des Goniaderini et sa position dans celle des Lupropini sensu Ardoin (1969) est confirmée. Des synonymies nouvelles sont établies: *Goniadera simplex* Fairmaire (= *Aemyone bordoni* Marcuzzi, 1994) **syn. nov.**, *Aemyone cariosa* Fairmaire, 1873 (= *Anaedus striatipennis* Pic, 1917) **syn. nov.** et (= *Aemyone silvanae* Marcuzzi, 1994) **syn. nov** *Aemyone crenata* Champion, 1886 tombe en homonymie avec *Goniadera crenata* Perty, 1830 le nom est changé, devenant *Goniadera* (*Aemyone*) *championi* **nom. nov.**

Mots clé.— révision, nouvelles espèces, région néotropicale, Coleoptera, Tenebrionidae, Lagriinae, Goniaderini, *Goniadera*, *Microgoniadera* .

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THE HINDWING VENATION AND ITS TAXONOMIC VALUE IN AFROTROPICAL SCUTELLERIDAE (HEMIPTERA: HETEROPTERA)

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Abstract.— The metathoracic wing venation in 41 species of 18 genera of Afrotropical Scutelleridae was studied and the results are presented and illustrated. Four main types of venational pattern can be recognized. The hindwing venation in Scutelleridae has also been compared with that of some other Pentatomoidea (Cydnidae, Dinidoridae, Pentatomidae and Tessaratomidae). Furthermore, the taxonomic value of metathoracic wing venation in the Afrotropical Scutelleridae has been discussed.

Key words.— Hemiptera, Heteroptera, Scutelleridae, hindwing venation, taxonomy, morphology, Afrotropical Region.

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DO DEPENDENT FOUNDRESSES OF *FORMICA PRATENSIS* RETZ. (HYMENOPTERA: FORMICIDAE) NEED A 'PASS' TO BE ADOPTED BY A HOST COLONY?

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Abstract.— Dealate gynes of *Formica pratensis* Retz., after their nuptial flight, were observed heading for colonies of their potential temporary host species in a sand dune habitat in southern Finland. Two *F. pratensis* gynes, one within a nest area of *Formica cinerea* Mayr, and one close to a nest of *Formica lusatica* Seifert, were noticed walking with a *F. cinerea* and *F. lusatica* worker respectively in their mandibles. So far such peculiar behaviour preceding dependent colony founding has only been known in gynes of the subgenus *Chthonolasius* Ruzs., obligate temporary social parasites. Observations were carried on in June 2006.

Key words.— Ants, *Formica pratensis*, *F. cinerea*, *F. lusatica*, *F. sanguinea*, temporary social parasitism, dependent colony founding, chemical camouflage.

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MERMITHID INFESTATION STRIKINGLY ALTERS THE MORPHOLOGY OF *MYRMICA RUBRA* (L.) (HYMENOPTERA: FORMICIDAE): POSSIBLE TAXONOMICAL INVOLVEMENTS

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Abstract.— A colony of *Myrmica rubra* (L.) parasitised by the mermithid nematodes was found in Pieniny Mts (S Poland). About 25% of the adult workers were infested, and their body, apart from a visibly distended gaster, was modified to an extent previously unknown in mermithised *Myrmica* ants (shape of body parts, sculpture, pilosity). The morphology of infested and non-infested individuals was compared using standard measurements and indices employed in taxonomy of the genus *Myrmica* Latr. Mermithogenic modifications of body structure in *Myrmica* species are signalled to be the cause of the possible taxonomic problems and mistakes.

Key words.— Ants, *Myrmica rubra*, parasites, Nematoda, Mermithidae, morphology, teratology, taxonomy.

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ONE NEW GENUS AND FOUR NEW SPECIES OF OONOPID SPIDERS FROM SOUTHWEST CHINA (ARANEAE: OONOPIDAE)

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Abstract.— Four new species of oonopid spiders are described from southwest China. Two of these are placed in the new genus *Trilacuna* **gen. nov.**: *T. angularis* **sp. nov.** and *T. rastrum* **sp. nov.** (type species). *Trilacuna* **gen. nov.** is characterized by the enlarged male palpal femur, the complicated embolus-conductor complex, the branched male endites and the notched labium. A further two species are *Camptoscaphiella tuberans* **sp. nov.** and *Gamasomorpha barbifera* **sp. nov.** A key to 10 genera and 23 species of the currently known Chinese oonopid spiders is given.

Key words.— Oonopidae, *Camptoscaphiella*, *Gamasomorpha*, *Trilacuna*, new genus, new species, China.

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DRACONARIUS SPIDERS IN CHINA, WITH DESCRIPTION OF SEVEN NEW SPECIES COLLECTED FROM CAVES (ARANEAE: AMAUROBIIDAE)

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Abstract.— Cave *Draconarius* spiders in China were rarely reported. In the present paper, seven new *Draconarius* species collected from caves in China are described and illustrated. They are *D. auriformis* **sp. nov.**, *D. brachialis* **sp. nov.**, *D. tongi* **sp. nov.**, *D. ovillus* **sp. nov.**, *D. specialis* **sp. nov.**, *D. spirallus* **sp. nov.** and *D. tubercularis* **sp. nov.** Distribution maps of *Draconarius* spiders are provided.

Key words.— Taxonomy, *Draconarius*, Amaurobiidae, new species, cave.

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COCCEUPODES LONGISOLENIDIATUS, A NEW MITE SPECIES OF THE FAMILY EUPODIDAE (ACTINOTRICHIDA: ACTINEDIDA: EUPODOIDEA) FROM POLAND

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Abstract.— In this paper, *Cocceupodes longisolenidiatus*, a new mite from the family Eupodidae is described and illustrated on the basis of material collected from Poland. A comprehensive account of the morphology of the body, i.e. idiosoma, gnathosoma, legs with setae and solenidia, is given.

Key words.— Acari, Actinedida, Eupodoidea, Eupodidae, *Cocceupodes longisolenidiatus*, description, new mite species, morphology, Poland.