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Résumés

**Evidence of spermatophores in Cyphophthalmi (Arachnida, Opiliones)**

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**Evidence of spermatophores in Cyphophthalmi (Arachnida, Opiliones).** - A spermatophore in Opiliones is for the first time observed and described from a specimen of *Cyphophthalmus serbicus* (Hadzi, 1973), here transferred from *Siro*. Insemination by means of spermatophores seems typical for some groups of the Cyphophthalmi, the most primitive and the least species-rich suborder in the order Opiliones. Primitive but complex insemination by spermatophores was retained in this group, which is adapted to a cryptozoic way of life, where this mating strategy is still functional. This paper presents a hypothesis on the possible significance of a number of characteristic traits in Cyphophthalmi, which presumably have some function for insemination via spermatophores.

**Keywords:** Opiliones - Cyphophthalmi - spermatophores - sperm transfer - functional anatomy - Balkan.

**Pronomaeini del Borneo (Coleoptera, Staphylinidae)\***

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**Pronomaeini from Borneo (Coleoptera, Staphylinidae).** - The genera and species of the tribe Pronomaeini are studied for the first time. The genera *Myllaena* Erichson and *Paramyllaena* Pace include seventeen species and eight species, respectively. All the *Myllaena* species and five of the *Paramyllaena* species are new to science. The genus *Paramyllaena* is attributed to Pronomaeini, based on the similarity of the mouthparts with those of *Myllaena* and *Pronomaea*. *Myllaena affinis* Cameron, *Myllaena laticollis* Cameron and *Mimoxypoda rougemonti* Pace, are transferred to *Paramyllaena*. All new species are described and illustrated. Keys to all species of Borneo of the genera *Myllaena* and *Paramyllaena* are presented.

**Keywords:** Coleoptera - Staphylinidae - Aleocharinae - Pronomaeini - taxonomy - Borneo.

**Two new Gammarus species from Benxi Water Cave, China (Crustacea, Amphipoda, Gammaridae)**

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**Two new Gammarus species from Benxi Water Cave, China (Crustacea, Amphipoda, Gammaridae).** - Two new *Gammarus* species, *Gammarus pexus* sp. n. and *Gammarus stalagmiticus* sp. n., are described from Benxi Water Cave, Liaoning Province, China. *Gammarus pexus* sp. n. is characterized by the peduncular articles 4 and 5 with groups of long setae and outer margin of outer ramus of uropod 3 only with simple setae. *Gammarus stalagmiticus* sp. n. differs from the congeneric species in the accessory flagellum of antenna 1 with 6 articles and uropod 3 densely provided with plumose and simple setae.

**Keywords:** Amphipoda - *Gammarus* - taxonomy - new species - China.

## **New species of *Coleophora* (Lepidoptera) from Katanga, Central Africa\***

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**New species of *Coleophora* (Lepidoptera) from Katanga, Central Africa.** - Eight new species of *Coleophora* (Lepidoptera) are described from the province of Katanga, Democratic Republic of Congo: *Coleophora frivolella* sp. n., *C. bantuella* sp. n., *C. terebrans* sp. n., *C. discopunctata* sp. n., *C. katangica* sp. n., *C. romieuxi* sp. n., *C. tetradonta* sp. n. and *C. fragilella* sp. n.

**Keywords:** Moths - new species - *Coleophora* - Democratic Republic of Congo - Katanga.

## **Redescription of *Parammoecius osseticus* (Iablokoff-Khnzorian, 1972) with a new synonymy and notes on the genus *Parammoecius* Seidlitz, 1891 (Coleoptera: Scarabaeoidea: Aphodiidae)**

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**Redescription of *Parammoecius osseticus* (Iablokoff-Khnzorian, 1972) with a new synonymy and notes on the genus *Parammoecius* Seidlitz, 1891 (Coleoptera: Scarabaeoidea: Aphodiidae).** - The Aphodiidae species *Parammoecius osseticus* (Iablokoff-Khnzorian, 1972) is redescribed, the synonymy with *P. interfinius* (Ziani, 2001) is proposed and a key for the *Parammoecius* species is given.

**Keywords:** Coleoptera - Scarabaeoidea - Aphodiidae - *Parammoecius* - taxonomy - biology - new synonymy - Palearctic Region.

## **New large-sized cave-dwelling *Heteropoda* species from Asia, with notes on their relationships (Araneae: Sparassidae: Heteropodinae)**

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**New large-sized cave-dwelling *Heteropoda* species from Asia, with notes on their relationships (Araneae: Sparassidae: Heteropodinae).** - Four new cave-dwelling *Heteropoda* species are described: *H. fischeri* sp. n. from Meghalaya, N India (♂♀), *H. schwendingeri* sp. n. from Thailand (♂), *H. beroni* sp. n. from Sulawesi (♂♀) and *H. belua* sp. n. from Sarawak (♂♀). Notes on the variation and relationships of these species are provided. Additional illustrations and diagnoses are given for the following species: *H. afghana* Roewer, 1962, *H. kuekenthali* Pocock, 1897, *H. nigriventer* Pocock, 1897, *H. robusta* Fage, 1924 and *H. tetrica* Thorell, 1897. The latter species is recorded from Thailand for the first time. Several features found in cave-dwelling species are considered as plesiomorphic for the Heteropodinae (elongated hairs on metatarsus I-III of males) or as convergently developed due to troglobiontic life (large size, elongated appendages).

**Keywords:** Systematics - new species - variation.

### **A new *Hypomma* species from Stara Planina Mountains, Bulgaria (Araneae, Linyphiidae)**

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**A new *Hypomma* species from Stara Planina Mountains, Bulgaria (Araneae, Linyphiidae).** - *Hypomma aemonicum* sp. n. (male/female) is described and illustrated (male/female) from Stara Planina Mountains in Bulgaria. This interesting new species has somatic characters which correspond to *Hypomma* but genital organs differ from all known species of the genus.

**Keywords:** Description - spider - Balkan Peninsula.

### **World revision of the genus *Nealsomyia* Mesnil (Diptera, Tachinidae)**

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**World revision of the genus *Nealsomyia* Mesnil (Diptera, Exoristinae, Tachinidae).** - A world taxonomic revision of the genus *Nealsomyia* is presented and the identity of the genus is defined and discussed. *Nealsomyia lindneri* Mesnil, *N. rufella* (Bezzi), *N. rufipes* (Villeneuve) and *N. triseriella* (Villeneuve) are redescribed and illustrated; *Nealsomyia merzi* sp. n. from Namibia is described, illustrated and compared with similar species. A key to the five known species of *Nealsomyia* is presented.

**Keywords:** Tachinidae - *Nealsomyia* - world revision - taxonomy - new species - identification key.

### **Nouvelles considérations taxonomiques sur les espèces du genre *Androctonus* Ehrenberg, 1828 et description de deux nouvelles espèces (Scorpiones, Buthidae)<sup>1</sup>**

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**New taxonomic considerations on the species of the genus *Androctonus* Ehrenberg, 1828 and description of two new species (Scorpiones, Buthidae).**- Results of the study of an interesting collection of scorpions of the genus *Androctonus* Ehrenberg, 1828 from North African and the Middle East, now deposited in the Geneva Museum, are presented. The collection contains specimens of 13 species, two of which are new and described here: *Androctonus maelfaiti* sp. n. and *Androctonus dekeyseri* sp. n. A key to all these species is provided. The following taxonomic changes are proposed: *Androctonus australis garzonii* Goyffon & Lamy and *Androctonus australis africanus* Lamy, Le Pape & Weill are placed in the synonymy of *Androctonus australis* (Linnaeus). *Androctonus crassicauda gonneti* Vachon and *Androctonus australis baluchicus* Pocock are raised to the status of species as *Androctonus gonneti* and *Androctonus baluchicus*. *Androctonus aeneus* C.L. Koch is placed in the synonymy of *Androctonus bicolor* Ehrenberg, whereas *Androctonus bicolor liouvillei* (Pallary) is reconsidered as a valid species. Finally, *Androctonus mauritanicus bourdoni* Vachon is placed in the synonymy of *Androctonus mauritanicus* (Pocock). Comments are given on the distributional patterns presented by the species of this genus.

**Keywords:** Scorpions - *Androctonus* - new species - North Africa - Middle East.

### ***Glyphomerus aylax* sp. n. (Hymenoptera: Torymidae) from Bulgaria**

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***Glyphomerus aylax* sp. n. (Hymenoptera: Torymidae) from Bulgaria.** - The new species *Glyphomerus aylax* is described and illustrated on the basis of specimens that emerged from galls of *Aylax hypedoi* Trotter (Cynipidae) on *Hypocoum imberbe* (Hypocoaceae). A key to all species of *Glyphomerus* is presented. Biological notes of the new species are given.

**Keywords:** Hymenoptera - Torymidae - *Glyphomerus* - taxonomy - key to species.

### **New records of Psychodidae (Diptera) for Switzerland**

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**New records of Psychodidae (Diptera) for Switzerland.** - New records are given for 35 species of moth flies. 11 of these are new to Switzerland. *Psychoda mycophila* Vaillant is synonymized with *Psychomora vanharai* Jezek (syn. nov.). The current Swiss list is considered to be well under half of the probable number of species present in the country.

**Keywords:** Diptera - Psychodidae - faunistics - new records - new synonymy - Switzerland.

### **A new spider species from Bulgaria, *Brachythele langourovi* sp. n. (Araneae, Nemesiidae)**

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**A new spider species from Bulgaria, *Brachythele langourovi* sp. n. (Araneae, Nemesiidae).** - The new species is described from male and female specimens (male and female illustrated) collected in Bulgaria (Central Stara Planina Mts, South Pirin Mts, Mt Maleshevska, Mt Osogovo, Mt Vitosha, East Rhodopi Mts and Strouma Valley). The male palps of this species are different from those of all previously known species of the genus.

**Keywords:** Description - new species - Enina Gorge - Kalimantsi - Osogovo - Vitosha.

### **Two new cave-dwelling *Larca* species from the South-East of Spain (Arachnida, Pseudoscorpiones, Larcidae)**

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**Two new cave-dwelling *Larca* species from the South-East of Spain (Arachnida, Pseudoscorpiones, Larcidae).** - *Larca luentina* sp. n. and *Larca fortunata* sp. n. are described from the south-eastern Spanish provinces of Alicante and Murcia. These cave-dwelling species are compared with the other species of the genus, particularly the European taxa. The hypothetical descent of cavernicolous European species from populations of a common ancestor similar to the epigeal *Larca lata* (H. J. Hansen) is considered.

**Keywords:** Pseudoscorpiones - Larcidae - *Larca luentina* sp. n. - *Larca fortunata* sp. n. - *Larca lata* (H. J. Hansen) - cavernicoles - Spain - Alicante - Murcia.

## **Zoogeographical aspects of some scutacarid mites and their phoresy hosts (Acari, Heterostigmata; Hymenoptera, Aculeata)**

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**Zoogeographical aspects of some scutacarid mites and their phoresy hosts (Acari, Heterostigmata; Hymenoptera, Aculeata).** - The known distribution of the scutacarid species *Imparipes (Imparipes) apicola* (Banks), *I. (I.) haeseleri* Ebermann & Hall and *I. (I.) breganti* Ebermann & Hall is presented. *Imparipes apicola* shows a Holarctic distribution with records from Canada, USA, Mexico and Central Europe. The area of distribution of *I. haeseleri* reaches from Central and South-eastern Europe to India. *Imparipes breganti* is known only from a number of localities in Central Europe. Females of these three mite species were found to be phoretic on solitary bees, sphecids and one eumenine wasp species, respectively; moreover, they all possess a so-called sporotheca. The distribution of these scutacarid-species with respect to the distribution of their hymenopterous hosts is discussed. A tabular list of all species of the genus *Imparipes* which were found to be phoretic on various hymenopterans (data of their distribution included) is presented.

**Keywords:** Acari - Scutacaridae - *Imparipes* - zoogeography - phoresy - wild bees - Sphecidae - sporothecae.

## **Two new *Cyclocosmia* (Araneae: Ctenizidae) from Thailand**

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**Two new *Cyclocosmia* (Araneae: Ctenizidae) from Thailand.** - Two new species of the peculiar trapdoor spider genus *Cyclocosmia*, *C. siamensis* sp. n. and *C. lannaensis* sp. n., are described from male and female specimens collected in Thailand and are compared with *C. ricketti* (Pocock) from China. Notes are given on taxonomic characters, variation, relationships, biology and the distribution of all three species.

**Keywords:** *Cyclocosmia* - *C. ricketti* - *C. siamensis* - *C. lannaensis* - new species - taxonomy - Thailand - trans-Pacific disjunction - biology.

## ***Salvelinus evasus* sp. n., a charr from deep waters of Lake Ammersee, southern Germany (Teleostei: Salmonidae), with comments on two extinct species**

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***Salvelinus evasus* sp. n., a charr from deep waters of Lake Ammersee, southern Germany (Teleostei: Salmonidae), with comments on two extinct species.** - *Salvelinus evasus* sp. n., from Lake Ammersee (southern Germany), is a deepwater charr distinguished from other prealpine charrs by the following combination of characters: mouth subinferior; snout blunt; 19-25 gill rakers; flank yellowish to silvery, sometimes with faint pale spots; eye diameter 0.8-1.4 times in interorbital; head depth at eye 9.4-11.4% SL; body depth at anal-fin origin 10.6-14.7% SL. The extinct *S. profundus* Schillinger is rediagnosed on the basis of the only 4 known museum specimens and a replacement name (*S. neocomensis* nom. n.) is proposed for the extinct *Salvelinus salvelinus* var. *profundus* Fuhrmann, 1903 from Lake Neuchâtel (Switzerland); lectotypes are designated for both species.

**Keywords:** Prealpine endemics - taxonomy - Lake Konstanz - Lake Neuchâtel - Switzerland.

## Les *Hyperolius* camerounais du groupe d' *H. nasutus* (Amphibia, Anura, Hyperoliidae)

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**Cameroonian *Hyperolius* of the *H. nasutus* group (Amphibia, Anura, Hyperoliidae).** - At the present time, the «*Hyperolius nasutus* group» includes fifteen species names, but several of them are certainly synonyms. First, a tentative synthesis of the characteristic features of the group is proposed. Some of them were formerly ignored or misinterpreted. For example, it is pointed out that specimens which do not exhibit the snout shape illustrated in Günther's description of *H. nasutus* were erroneously attributed to this species. In the Cameroonian batrachofauna, two species were confounded with *H. nasutus*: *H. igbettensis* Schiøtz (formerly a subspecies of *nasutus*) and *H. adpersus* Peters (a species fallen in oblivion). As these species have easily recognizable nuptial calls, it was possible to find distinguishing morphological characters. *H. igbettensis* is very slender and relatively larger, with a narrow head; its snout is long, but not «shark-like» as in Günther's description of *nasutus*; nuptial calls are of type A sensu Channing, Moyer & Burger; in Cameroon, this species inhabits guineo-sudanian and medio-sudanian savannas. *H. adpersus* is somewhat smaller, broader, and has a broad head and short, subtruncate snout; brown chromatophores are more numerous than in *igbettensis* and may give a speckled pattern; calls are of type C; *H. adpersus* is a farmbush species (= «parasylicole» sensu Amiet) spread in the Cameroonian forest zone and reproducing in more open sites. Phonoceneses to which both species participate are described. Their distribution out of Cameroon is traced and their affinities are discussed. Finally, a diagnosis of each species is proposed and taxonomic problems concerning other species of the group are evoked.

**Keywords:** Africa - Cameroon - batrachology - systematics - ecology.