

TYLENCHID NEMATODES FOUND ON THE NUNATAK BASEN, EAST ANTARCTICA

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Abstract.— One new, four known and one unidentified species of tylenchid nematodes are described from samples collected on the nunatak Basen, Vestfjella, Dronning Maud Land, East Antarctica. *Apratylenchoides joenssoni* **sp. nov.** differs from the only other known species of *Apratylenchoides*, *A. belli* Sher, 1973, in having a pumpkin-like spermatheca, shorter dorsal gland lobe, longer tail, and crenate tail tip. *Pratylenchus andinus* Lordello, Zamith et Boock, 1961, *Tylenchorhynchus maximus* Allen, 1955, *Aglenchus agricola* (de Man, 1884) Meyl, 1961 and *Pratylenchus nanus* Cobb, 1923 were also recorded for the first time in Antarctica. The rather unexpected presence of plant parasitic nematodes in habitats devoid of vascular plants and some biogeographical implications of the findings are discussed.



Key words.— *Aglenchus*, *Apratylenchoides*, *Filenchus*, morphology, Nematoda, new species, *Paratylenchus*, *Pratylenchus*, taxonomy, *Tylenchorhynchus*.

A NEW SPECIES OF THE GENUS *PALEONURA*
CASSAGNAU, 1982 FROM NORTH VIETNAM
(COLLEMBOLA: NEANURIDAE: NEANURINAE)

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Abstract.— *Paleonura tenuisensillata*, new species from Vietnam is described and illustrated.



Key words.— Entomology, taxonomy, Collembola, Neanuridae, Neanurinae, *Paleonura*, new species, North Vietnam.

NOTES ON THE GENUS *PROTOTHEA* WEISE WITH REDESCRIPTION OF *P. QUADRIPUNCTATA* (MULSANT) (COLEOPTERA: COCCINELLIDAE: COCCINELLINI)

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Abstract.— The genus *Protothea* Weise, 1898 is diagnosed and transferred from Halysiini (=Psylloborini) to Coccinellini. *Nedina* Hoang, 1983 is synonymised with *Protothea* (**new synonym**) and *Nedina mirabilis* Hoang, 1984 with *Protothea quadripunctata* (Mulsant, 1853) (**new synonym**). The remaining species of *Nedina* are transferred to *Protothea*: *P. decemguttata* (Hoang, 1983), *P. limbata* (Hoang, 1983), *P. flavescens* (Hoang, 1983), *P. octoguttata* (Hoang, 1983), *P. aurea* (Hoang, 1984), and *P. melanaria* (Hoang, 1984) (**new combinations**). *P. quadripunctata* (Mulsant) is redescribed and illustrated based on material from India (Assam; Nagaland).



Key words.— *Protothea*, *Nedina*, Coccinellidae, Coccinellini, new synonyms, new combinations, *Protothea quadripunctata*, redescription.

REVISION OF FRENCH AND CORSICAN SPECIES OF THE GENUS *ASIDA* LATREILLE, 1802 (INSECTA: COLEOPTERA: TENEBRIONIDAE)

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Abstract.— The tenebrionid genus *Asida* Latreille, 1802 is revised for the French fauna. An important voucher material is studied from 13 European institutions and 46 private personal collections. For each species, systematic, taxonomic, and ecological notes, as well as photographs of the habitus are provided. Distribution maps, an updated catalogue, and an illustrated key to species and subspecies, are also given. New synonym: *Asida dejeanii* Solier, 1836 = *Asida detrita* Rey, 1892, **syn. nov.** Confirmed synonymies: *Asida dejeanii* Solier, 1836 = *Asida dejeani* var. *crispata* Rey, 1892; *Asida dejeanii* Solier, 1836 = *Asida dejeani* var. *sinuans* Rey, 1892; *Asida sabulosa* Fuessly, 1775 = *Asida grisea* var. *glabricosta* Solier, 1836; *Asida sabulosa* Fuessly, 1775 = *Asida vicina* Solier, 1836; *Asida sabulosa* Fuessly, 1775 = *Asida insidiosa* Mulsant, 1854; *Asida jurinei* Solier, 1836 = *Asida bigorrensis* Solier, 1836. Two new species are described from Corsica: *Asida christinae* **sp. nov.**, *Asida coachei* **sp. nov.** New taxonomic status: *Asida lepidoptera* Allard, 1868 is downgraded to *A. carinata* ssp. *lepidoptera* Allard, 1868 (= *squamigera* Reitter, 1917), **stat. nov.** *Asida carinata* var. *devillei* Leoni, 1909 is raised to *A. devillei* Leoni, 1909, **stat. nov.** *Asida dejeanii* var. *massiliensis* Baudi di Selve, 1875 is raised to *A. massiliensis* Baudi di Selve, 1875, **stat. nov.** Revised taxonomic status: *Asida ligurica* Baudi di Selve, 1875 and *A. marmottani* Brisout de Barneville, 1863 are recognised *bonae species*. New faunistic records: *Asida ligurica* Baudi di Selve, 1875 is recorded for the first time in SE France, Alpes-Maritimes. *Asida schusteri* Reitter, 1917 is recorded for the first time in Italy, N Sardinia. Lectotype designations: *Asida bayardi* var. *ligurica* Baudi di Selve, 1875; *A. carinata* Solier, 1836; *A. dejeanii* Solier, 1836; *A. dejeani* var. *crispata* Rey, 1892; *A. dejeani* var. *sinuans* Rey, 1892; *A. dejeanii* var. *massiliensis* Baudi di Selve, 1875; *A. genei* Solier, 1836; *A. grisea* var. *glabricosta* Solier, 1836; *A. jurinei* Solier, 1836; *A. jurinei* var. *pyrenaea* Baudi di Selve, 1875; *A. lepidoptera* Allard, 1868; *A. longicollis* Solier, 1836; *A. marmottani* Brisout de Barneville, 1863; *A. reticulata* Solier, 1836; *A. vicina* Solier, 1836. Neotype designation: *Asida carinata* var. *devillei* Leoni, 1909.



Key words.— Insecta, Coleoptera, Tenebrionidae, *Asida*, France, Corsica, systematics, taxonomy, geographical distribution.

LARVAE OF THE GENUS *ANOMALIPUS* LATREILLE, 1846 (COLEOPTERA: TENEBRIONIDAE)

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Abstract.— The immature stages of the 11 species of the genus *Anomalipus* Latreille, 1846 were presented on base of the material preserved in the Transvaal Museum in Pretoria (33 eggs and 152 larvae). The materials were collected in the natural conditions (larvae with adults association) or came from the beetles-breeding. The following larval characters distinguished the genus *Anomalipus*: (1) the presence of subdivided sensorium surrounding the base of the apical antennomere; (2) the epicranial plate of head and lateral part of prothorax possess deep holes (modified into sensory-capsules); (3) anal segment smooth, conical, with ninth sternum extremely reduced. The results of the presented studies are not confirmed Schultze's (1978) informations of antennal structures and divisions of the *Anomalipus* species based on the adults (Endrödy-Younga 1988). The high level of homogenous larval structures of the *Anomalipus* make its useless for species describing and grouping.



Key words.— *Anomalipus*, Platynotini, Tenebrionidae, Coleoptera, beetles, immature stages, South Africa.

REVISION OF MADAGASCAN SPECIES OF THE GENUS *CHIRIDOPSIS* SPAETH, 1922 (COLEOPTERA: CHRYSOMELIDAE: CASSIDINAE)

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Abstract.— Madagascan species of the genus *Chiridopsis* Spaeth, 1922 are revised. Nine species occur on this island, five of them are described as new to science: *Chiridopsis atricollis*, *Ch. levis*, *Ch. maculata*, *Ch. marginepunctata*, and *Ch. nigroreticulata*. New records and a key to the species from Madagascar are given.



Key words.— New species, new records, Coleoptera, Chrysomelidae, Cassidinae, *Chiridopsis*, Madagascar.

A REVIEW OF THE SPECIES OF THE AUSTRALO- ASIAN GENUS *SONANUS* BELOKOBYSKIJ ET KONISHI (HYMENOPTERA: BRACONIDAE: DORYCTINAE)

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Abstract.— A review of the species of the Australo-Asian genus *Sonanus* Belokobylskij et Konishi, 2001 is given. Two new species are described: *S. chinensis* Belokobylskij et Chen, **sp. nov.** (China) and *S. indicus* Belokobylskij, **sp. nov.** (India). *S. senzuensis* Belokobylskij et Konishi is recorded in China for the first time. A key to all known species of this genus is provided.



Key words.— Taxonomy, review, Hymenoptera, Braconidae, Doryctinae, *Sonanus*, new species, new record, China, India.

THREE NEW SPECIES OF *CORDYLA* MEIGEN (DIPTERA: MYCETOPHILIDAE) FROM BORNEO, SULAWESI AND PAPUA NEW GUINEA

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Abstract.— Three new species: *Cordyla borneoensis* **sp. nov.**, *C. jani* **sp. nov.** and *C. toraia* **sp. nov.** are described from Borneo, Sulawesi and Papua New Guinea. Detailed illustrations of the genitalia for the species are given. The genus *Cordyla* Meigen is recorded in the Australasian Region for the first time. A key to the Oriental and Australasian species of *Cordyla* is provided.



Key words.— Diptera, Mycetophilidae, *Cordyla*, new species.

TWO NEW SPECIES OF *HYBOS* FROM GUANGDONG (DIPTERA: EMPIDOIDEA: HYBOTINAE)

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Abstract.— The following two species are described as new to science: *Hybos curvatus* **sp. nov.** and *H. obtusatus* **sp. nov.** An updated key to the species of the genus from Guangdong is presented.



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

A SYSTEMATIC REVIEW OF EUROPEAN *STEMPELLINA*
THIENEMANN ET BAUSE, 1913 (DIPTERA: CHIRONOMIDAE)
WITH DESCRIPTION OF A NEW SPECIES FROM
FENNOSCANDIA

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Abstract.— *Stempellina tervolae* sp. nov. from Finland and Sweden is described and illustrated. A verified diagnosis of the genus *Stempellina* Thienemann et Bause, 1913 is presented and the systematic position discussed. Two species are removed from *Stempellina* and placed into the genus *Neozavrelia* Goetghebuer, 1941 as new combinations: *N. bicoliocula* (Tokunaga, 1938) and *N. okadai* (Tokunaga, 1939). Diagnoses for adult males of European species and a key are also given.



Key words.— Diptera, Chironomidae, Tanytarsini, *Stempellina*, taxonomy, new species.

REVISION OF THE GENUS *SEMISSUS* MELICHAR, 1906 (HEMIPTERA: FULGOROMORPHA: ISSIDAE)

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Abstract.— The genus *Semissus* Melichar, 1906 is redescribed. *Theryana* Bergevin, 1922 is placed in synonymy with *Semissus*. *Semissus acuminatus* (Lethierry, 1876) and *S. semisoides* (Bergevin, 1922), **comb. nov.** are redescribed. *S. tlemsenicus* Dlabola, 1987 is placed in synonymy with *S. acuminatus*. Three new species of the genus are described from Morocco and Algeria – *S. pliadicus* **sp. nov.**, *S. hyadicus* **sp. nov.**, and *S. hesperidicus* **sp. nov.** A key for species identification is given.



Key words.— Issidae, *Semissus*, new species, synonymy, taxonomy, morphology.

***TUBEROLACHNUS (TUBEROLACHNIELLA)*
MACROTUBERCULATUS SP. NOV. FROM CHINA
(HEMIPTERA: APHIDIDAE: LACHNINAE)**

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Abstract.— The aphid subgenus, *Tuberolachnus* (*Tuberolachniella*) Hille Ris Lambers et Basu, 1966 is newly recorded from China. A new species, *Tuberolachnus* (*Tuberolachniella*) *macrotuberculatus* **sp. nov.** is described. The types are deposited in Zoological Museum, Institute of Zoology, Chinese Academy of Sciences.



Key words.— Aphididae, Lachninae, *Tuberolachnus*, *Tuberolachniella*, new species, China.

REVIEW OF GENUS *LITHOAPHIS* TAKAHASHI, 1959 (HEMIPTERA: APHIDIDAE: HORMAPHIDINAE) FROM CHINA, WITH THE DESCRIPTION OF A NEW SPECIES

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Abstract.— Genus *Lithoaphis* Takahashi, 1959 is reported from China. One new species *Lithoaphis quercisucta* **sp. nov.** from Yunnan Province, China is described. Diagnosis character, key of species, distribution, host plant and biology of the genus *Lithoaphis* are provided. Morphological description, feature pictures, distribution, and host plant of the new species are included in this paper. All specimens including the type are deposited in the Zoological Museum, Institute of Zoology, Chinese Academy of Sciences, P. R. China.



Key words.— Aphididae, Hormaphidinae, *Lithoaphis*, new species, China.

A REVISION OF THE SPIDER GENUS *CHALCOLECTA* SIMON, 1884 (ARANEAE: SALTICIDAE)

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Abstract.— The genus *Chalcolecta* Simon is revised to include 3 species: *C. bitaeniata* Simon, 1884, *C. dimidiata* Simon, 1884 and *C. prensitans* (Thorell, 1881). Each species is diagnosed, described and illustrated, also identification key and distributional map are provided. *C. rapax* (Thorell, 1881) is synonymised with *C. prensitans* (Thorell, 1881). *C. amplectens* (Doleschall, 1859) and *C. zostifera* (Doleschall, 1859) are considered *nomina dubia*. The genus is closely related to *Diolenius* Thorell, 1870 and *Ohilimia* Strand, 1911 and its range is restricted to rain forests of Cape York Peninsula (NE Australia), New Guinea and The Moluccas (Halmahera).



Key words.— Araneae, Salticidae, *Chalcolecta*, taxonomy, New Guinea, The Moluccas, Australia.

NEW ORIBATID MITE OF THE GENUS *CROTONIA* (ACARI: ORIBATIDA: CROTONIIDAE) FROM CHILE

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Abstract.— *Crotonia* is a genus of middle-derivative oribatid mites that is widely distributed in, and almost restricted to, the Southern Hemisphere. Currently only five species are reported from the Neotropical region. Herein a new species from Chile – *C. blaszaki* **sp. nov.** – is described based on the adult instar. The characters possessed by this species combine those of the so-called “*obtecta*”, “*caudalis*” and “*unguifer*” species-groups, which suggests that the groupings of *Crotonia* species should be reevaluated.



Key words.— Oribatida, Crotonioidea, *Crotonia*, Acari, new species, Chile

GRASS-ASSOCIATED ERIOPHYOID MITES (ACARI: ERIOPHYIDAE) FROM THE KOLA PENINSULA, RUSSIA

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Abstract.— During a survey conducted in Russia on the Kola Peninsula, 11 eriophyoid species were collected from grasses. Five are new to science: *Aceria kolae* sp. nov. from *Phalaris arundinacea*, *Aculodes stoloniferae* sp. nov. from *Agrostis stolonifera*, *Aculodes neglectivagrans* sp. nov. from *Calamagrostis neglecta*, *Aculus hibinicus* sp. nov. from *Anthoxanthum odoratum* and *Tegolophus moliniae* sp. nov. from *Molinia coerulea*. Herein, adults of both sexes and some juvenile stages are illustrated and described. A supplementary description of *Aculodes capillaris* Skoracka is given. New host plants are *Melica nutans* and *Phalaris arundinacea* for *Abacarus spodiopogoni* Sukhareva, *Festuca rubra arenaria* for *Abacarus hystrix* (Nalepa), *Agrostis stolonifera stolonifera* for *A. capillaris*, *Agrostis stolonifera straminea* for *Aculodes dubius* (Nalepa), *Calamagrostis purpurea phragmitoides* for *Aculodes mckenziei* (Keifer).



Key words.— Acari, *Abacarus*, *Aceria*, *Aculodes*, morphology, new species, Poaceae, taxonomy.

PARACRENHYDROSOMA OCEANIAE SP. NOV. (COPEPODA: HARPACTICOIDA), FROM KONGSFJORDEN, NORTHWEST SVALBARD (ARCTIC)

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Abstract.— Both sexes of a new species of Cletodidae belonging to the *Acrenhydrosoma*-lineage are described from material collected at Kongsfjorden (Svalbard) and attributed to the genus *Paracrenhydrosoma* Gee, 1999. *Paracrenhydrosoma oecaniae* sp. nov. is easily distinguished from its congeners by the reduced setal formula of the natatorial legs, lacking the inner subdistal seta on segment 3 of legs 3 and 4. Several other characteristics viz. antennular and antennal armature, and the free leg 5 exopodite in both sexes, are indications of its basal position in the genus.



Key words.— *Paracrenhydrosoma*, new species, Harpacticoida, Arctic fjord, Svalbard.

A REDESCRIPTION OF *PLATYTROMBIDIUM FASCIATUM* (C. L. KOCH, 1836) AND *ATRACOTHTROMBIUM* *SYLVATICUM* (C. L. KOCH, 1835) (ACARI: PARASITENGONA: MICROTROMBIDIIDAE) WITH NOTES ON SYNONYMY, BIOLOGY AND LIFE CYCLE

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Abstract.— *Platytrombidium fasciatum* (C. L. Koch, 1836) and *Atractothrombium sylvaticum* (C. L. Koch, 1835) are redescribed. Characteristics of larvae, deutonymphs and adults as well as the data on biology are provided. The status of *Atractothrombium* Feider, 1952, earlier synonymized with *Platytrombidium* Thor, 1936, is restored, based on the characters discovered in larvae and postlarval forms. The revised diagnoses of both genera are proposed. Data on habitat specificity, phenology, developmental times and parasitic associations of larvae are given. Females of *P. fasciatum* and *A. sylvaticum* from which larvae were obtained by experimental rearing, are designated as neotypes. *Platytrombidium ornatum* (Kramer, 1896) syn. nov., *P. insulanum* (Oudemans, 1901) syn. nov., *P. vagabundum* (Berlese, 1903) syn. nov., *P. trispinum* (Berlese, 1910) syn. nov., *P. quadrispinum* (Berlese, 1910) syn. nov. and *P. albofasciatum* (Berlese, 1912) comb. nov. are considered synonyms of *Platytrombidium fasciatum* (C. L. Koch, 1836). *Atractothrombium simulans* (Berlese, 1910) comb. nov. and *Cylindrothrombium arnolfi* Haitlinger, 1998 syn. nov. are considered synonyms of *Atractothrombium sylvaticum* (C. L. Koch, 1835). *Thrombidium* [sic!] *tectocervix* (Oudemans, 1903) (originally described as *Hydrarachna* [!]) is transferred to *Atractothrombium*. *Platytrombidium belairense* Gabryś, 1999 syn. nov. is regarded as objective junior synonym of *Foliotrombidium ornatum* Womersley, 1945. Generic affiliation of *Empitrombidium littorale* (Michener, 1946) and *E. dictyostracum* (Vercammen-Grandjean and Cochrane, 1974) is maintained. *Cylindrothrombium* Feider, 1955 is retained a synonym of *Platytrombidium* Thor, 1936.



Key words.— Acarology, Prostigmata, taxonomy, biology, life cycle, *Platytrombidium fasciatum*, *Atractothrombium sylvaticum*, neotypes.