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On two *Heptathela* species from southern Vietnam, with a discussion of copulatory organs and systematics of the Liphistiidae (Araneae: Mesothelae)

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On two *Heptathela* species from southern Vietnam, with a discussion of copulatory organs and systematics of the Liphistiidae (Araneae: Mesothelae). - *Songthela australis* Ono, 2002 is re-defined on the basis of new material from the type locality and from a second locality nearby. The male of this species is described for the first time. A closely related species, *Heptathela nui* sp. n., is described from males and females collected at two other localities in the same province. Variation in the copulatory organs of both species is illustrated and notes are given on their biology, particularly on their association with an ectoparasitic mite species of the genus *Ljunghia* Oudemans, 1932. "Twig-lining" is reported for one population of *H. nui* sp. n. *Songthela australis* and *H. nui* sp. n. are compared with *Nanthela tonkinensis* (Bristowe in Bristowe & Millot, 1933) and *H. tomokunii* Ono, 1997a from northern Vietnam, with *H. kimurai* (Kishida, 1920), *H. kikuyai* Ono, 1998, *Ryuthela owadai* Ono, 1997b and *R. nishihirai* (Haupt, 1979) from Japan, and with *Liphistius ornatus* Ono & Schwendinger, 1990 and *L. thaleri* Schwendinger, 2009 from Thailand. Additional taxonomic characters are illustrated for most of these species. Judging from apomorphies in the male copulatory organs, *S. australis* and *H. nui* sp. n. are sister species, but their female copulatory organs are very different. This challenges the generic concepts of *Songthela* Ono, 2000 and *Abcathela* Ono, 2000 (the latter earlier placed in the synonymy of *Heptathela*). The genus *Nanthela* Haupt, 2003 has no clear apomorphies, and transitions of diagnostic characters between *Nanthela*, *Songthela* and *Heptathela* were found. Thus *Nanthela* and *Songthela* are here placed in the synonymy of *Heptathela*. Morphology and conflicting terminology of copulatory organs in Liphistiidae, and the current confusion in Heptathelinae systematics are discussed. The copulatory organs of males and females of *Liphistius* Schiödte, 1849 and *Ryuthela* Haupt, 1983 are here considered as more derived than those of *Heptathela*. Some observations on moulting of liphistiid spiders are given.

Keywords: Taxonomy - new species - *Liphistius* - *Nanthela* - *Ryuthela* - *Songthela* - *Ljunghia* - Acari.

A new genus and species of Spilomelinae (Lepidoptera, Pyralidae) from the Galapagos Islands, Ecuador

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A new genus and species of Spilomelinae (Lepidoptera, Pyralidae) from the Galapagos Islands, Ecuador. - *Cheverella galapagensis* Landry, gen. n. and sp. n. is described as an endemic of the Galapagos Islands, Ecuador. Based on a combination of two apomorphies (reduced uncus and presence of setose pads on anterodorsal extensions of the male valva medially) this taxon is possibly related to *Choristostigma* Warren, now placed in the *Hydriris* group of Munroe (1995), but *Cheverella* lacks the setose projection at base of the valve's costa present in *Choristostigma*. The female has a clearly circumscribed corpus bursae with a short, spine-like signum. *Cheverella* also shares a few characters with members of the Siga group. The larva is a borer in stems of the endemic *Tournefortia pubescens* Hook. f. (Boraginaceae).

A new species of *Anthrenus* Geoffroy, 1762 (Coleoptera: Dermestidae) from Oman, with a key to related species

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A new species of *Anthrenus* Geoffroy, 1762 (Coleoptera: Dermestidae) from Oman, with a key to related species. - *Anthrenus* (*Anthrenus*) *ardo* sp. n. from Oman is described. The habitus, antennae, and male genitalia are illustrated and compared to related species. The new species is characterized by eye with median side broadly and deeply emarginated at about anterior 1/3, 11-segmented antenna and broadly oval scales of the dorsum. Elytra covered with oval white patch on each side of the suture at its base, with three white, transverse, irregularly interrupted patches. The new species is most similar to *Anthrenus* (s. str.) *namibicus* Háva, 2000 and *A.* (s. str.) *flavipes flavipes* LeConte, 1854. Identification features to externally similar species of the genus are given. The most distinctive taxonomic characteristics concern the tibiae, the male genitalia and the 9th abdominal sternite are also given.

Keywords: Coleoptera - Dermestidae - *Anthrenus* - new species - taxonomy - morphology - comparative study - key - Oman.

First record of the subfamily Pycnocheiridiinae from South America, with the description of *Leptocheiridium pfeifferae* gen. n., sp. n. (Arachnida: Pseudoscorpiones: Cheiridiidae)

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First record of the subfamily Pycnocheiridiinae from South America, with the description of *Leptocheiridium pfeifferae* gen. n., sp. n. (Arachnida: Pseudoscorpiones: Cheiridiidae). - The cheiridiid subfamily Pycnocheiridiinae is recorded for the first time from South America, *Leptocheiridium* gen. n. and its type species *pfeifferae* sp. n. are described and illustrated. The new genus shares with *Pycnocheiridium* Beier, 1964 (type genus of the Pycnocheiridiinae Beier, 1964) the same morphology of walking legs, eight trichobothria on the fixed chelal finger, only two on the movable finger, and the presence of strongly clavate vestitural setae. *Leptocheiridium* gen. n. is well characterized by the shape of its slender pedipalps, the presence of three sub-equal setae in the rallum, the presence of five setae on the cheliceral hand, the morphology of the female galea, and the presence of a well-developed transverse furrow on the carapace.

Keywords: Taxonomy - ecology - neotropical region - Ecuador - bark dweller.

Four new species from China and Southeast Asia (Diptera, Lauxaniidae, Homoneurinae)

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Four new species from China and Southeast Asia (Diptera, Lauxaniidae, Homoneurinae). - Four new species are described and illustrated, including *Cestrotus quadrimaculatus* sp. n., *Dioides merzi* sp. n., *Noonamyia bipunctata* sp. n. and *Noonamyia flavoscutellata* sp. n., and seven species are recorded for the first time from Vietnam, Thailand, Philippines and/or Malaysia, including *Cestrotus flavoscutellatus* Meijere, 1910, *Cestrotus liui* Shi, Yang & Gaimari, 2009, *Cestrotus heteropterus* Shi, Yang & Gaimari, 2009, *Dioides*

furcatus Shi & Yang, 2009, *Dioides incurvatus* Shi & Yang, 2009, *Noonamyia sabahna* Sasakawa & Pong, 1990, *Noonamyia sasakawai* Papp, in Papp, Merz & Földvári, 2006 and *Phobeticomyia uncinata* Shi & Yang, 2009. The species *Noonamyia sasakawai* is redescribed and illustrated completely according to two paratypes and several additional specimens. A key to all species of the genus *Noonamyia* of the world is presented.

Keywords: Lauxaniidae - Homoneurinae - new species - key - Southeast Asia.

On the Scaphisomatini (Coleoptera: Staphylinidae: Scaphidiinae) of the Philippines, II

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On the Scaphisomatini (Coleoptera: Staphylinidae: Scaphidiinae) of the Philippines, II. - The Philippine species of *Scaphobaeocera* and *Xotidium* are reviewed and a key to the species of *Scaphobaeocera* is provided. The following new species are described: *Scaphobaeocera bulbosa* sp. n., *S. complicans* sp. n., *S. data* sp. n., *S. davaoana* sp. n., *S. episternalis* sp. n., *S. escensa* sp. n., *S. excisa* sp. n., *S. hamata* sp. n., *S. monticola* sp. n., *S. montivagans* sp. n., *S. orousseti* sp. n., *S. palawana* sp. n., *S. pseudotenella* sp. n., *S. pubiventris* sp. n., *S. serpentis* sp. n., *S. watrousi* sp. n., *S. weneri* sp. n., and *Xotidium tubuliferum* sp. n. *Scaphobaeocera sabapensis* Löbl is reported for the first time from the Philippines.

Keywords: Coleoptera - Staphylinidae - Scaphidiinae - Scaphisomatini - taxonomy - Philippines

Taxonomic emendations in the genus *Liocheles* Sundevall, 1833 (Scorpiones, Liochelidae)

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Taxonomic emendations in the genus *Liocheles* Sundevall, 1833 (Scorpiones, Liochelidae). - Examination of an extensive material that includes the type series and recently collected specimens enable a precise reassessment of the status of several taxa belonging to the genus *Liocheles* Sundevall, 1833 (Scorpiones, Liochelidae). Two species previously in synonymy, i. e. *Liocheles boholiensis* (Kraepelin, 1914) and *Liocheles neocaledonicus* (Simon, 1877), are revalidated. *Liocheles australasiae longimanus* (Werner, 1939) is elevated to species rank and *Liocheles australasiae brevidigitatus* Werner, 1936 is synonymized with *Liocheles australasiae* (Fabricius, 1775). *L. boholiensis* (Kraepelin, 1914), *L. neocaledonicus* (Simon, 1877) and *L. longimanus* (Werner, 1939) are thoroughly redescribed, diagnosed and illustrated, and their distribution ranges are accurately mapped.

Keywords: *boholiensis* - *longimanus* - *neocaledonicus* - taxonomy - Australasia - Indonesia, Sumatra - New Caledonia - Philippines - Bohol.