

Non-Insect Arthropod Types in the ZFMK Collection, Bonn (Acari, Araneae, Scorpiones, Pantopoda, Amphipoda)

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Abstract. The type specimens of Acari, Araneae, Scorpiones, Pantopoda, and Amphipoda housed in the Zoological Research Institute and Museum Alexander Koenig, Bonn, are listed. 149 names are recorded; of these, 40 (27%) are represented by name bearing (i.e., primary) types. Specific and subspecific names are listed alphabetically, followed by the original genus name, bibliographic citation, present combination (if known to the authors), and emended label data.

Key Words. type specimens, Acari, Araneae, Scorpiones, Pantopoda, Amphipoda.

INTRODUCTION

The ZFMK in Bonn has a relatively small collection of non-insect arthropods, with an emphasis on arachnids (mostly mites, spiders, and scorpions), sea spiders (Pantopoda) and amphipods. Other arachnid and crustacean orders are represented, but not by type material. A small part of the material goes back to the founder of the museum, Alexander Koenig, and was collected around 1910. Most Acari were deposited at the museum by F. S. Lukoschus (mostly Astigmata: Glyciphagidae, Atopomelidae, etc.), Pantopoda by F. Krapp (Mediterranean, Weddell Seas), and Amphipoda by G. Krapp-Schickel (Mediterranean). The spider collection was traditionally focused on the Rhineland fauna, but has recently received the E. Kullmann collection (Mediterranean, Afghanistan, Africa) and considerable amounts of new material collected in Kenya by the BIOTA projects and in various tropical countries by the first author.

Taxa are listed by species epitheta, followed by the original genus name, both in original spelling. This is followed by the name's author(s), the type status and identity (sex, developmental stage), and the collection data. Original label information was basically copied, except that country names were added or changed according to current usage, and minor emendations were made for homogeneity of style.

Abbreviations:

HT: holotype, **PT:** paratype, **ST:** syntype, **LT:** lectotype, **PLT:** paralectotype
n, pn, dn, tn: (proto-, deuto-, trito-) nymph, **hy:** hypopus, **L:** larva

ACARI

aequatorialis [*Orycteroxenus*] Lukoschus, Gerrits & Fain, 1977b. PT, 2 slides. CONGO?: "M. de Brazza", host: *Crocidura aequatorialis*, 'Paris 1886-168'.

africanus schliemannii [*Neotetracopus*] Lukoschus & Gerrits, 1977. PT, 5 slides. MALAWI ("Nyasaland"): Blantyre, host: *Crocidura* sp., 25.ix.1908 (K. Fricke), 'Hamburg T 135'.

alatus [*Murichirus (Murichirus)*] Fain & Lukoschus, 1981d. 1♂1♀ PT, 2 slides. AUSTRALIA: Wanjari Reserv., host: *Notomys alexis alatus*, 8.i.1975 (P. Lombert), 'WAM M12 964'.

allactaga [*Cheyletus*] Fain & Lukoschus, 1981a. 1♀ PT. MONGOLIA: Chovd-gol, host: *Allactaga sibirica*, 2.vi.1975 (M. Stubbe) 72.

allactaga [*Crinicansor*] Fain & Lukoschus, 1979a. 2♀ PT, 2 slides. MONGOLIA: Chovd-gol, host: *Allactaga sibirica*, 11.vi.1975 (M. Stubbe) 167.

amazonicus musculus [*Prolistophorus*] Fain, 1973. 2♀ PT. SURINAME: Lelydorp, host: *Mus musculus brevirostris*, 27.ii.1970 (F. S. Lukoschus), 195.

angiodes [*Laelaps*] Domrow, 1980. 1♀ PT. AUSTRALIA: Port Warrender, host: *Zyzomys woodwardi*, 30.x.1976, Kimberley Exp. 3142.

apicola [*Cheletophyes*] Fain, Lukoschus & Nadchatram, 1980. 1♂1♀ PT, 2 slides. MALAYSIA: Kuala Pilah, host: *Xylocopa (Platynopoda) latipes*, 9.v.1979 (F. S. Lukoschus) & 30.vi.1980 (Ismail).

apodemi [*Crinicansor*, sic!] Fain, Munting & Lukoschus, 1969. 3th PT. THE NETHERLANDS: Hatert, host: *Apodemus sylvaticus*, 12.ix.1967 (F. S. Lukoschus).

- apodemi** [*Trichoecius*] Fain, Munting & Lukoschus, 1969. 4♀ PT, 4 slides. THE NETHERLANDS: Hatert, host: *Apodemus sylvaticus*, 14.xi.1966 (F. S. Lukoschus).
- asiaticus** [*Alabidopus*] Lukoschus, Schepherboer, Fain & Nadchatram, 1981. PT: 2♂pn, 1♀, 1tn, 1hy, 4 slides. MALAYSIA: Subang Forest, Selangor, host: *Rattus whiteheadi*, 8. & 10.v.1979 (M. Nadchatram, 'IMR 92 & 110').
- australiana** [*Petaurobia*] Fain & Lukoschus, 1981c. 3♂4♀ PT, 7 slides. AUSTRALIA, host: *Petaurus breviceps*, 29.xi.1913 (Vosseler), 'Hamburg T 663'.
- australienis** [*Labidocarpus*] Fain & Lukoschus, 1981b. 4♀ PT, 4 slides. AUSTRALIA: Geikie Gorge, host: *Hipposideros ater*, 3.-7.x.1976, Kimberley Exp. 2892 & 2959.
- betulinus** [*Gliricoptes*] Kok, Lukoschus & Fain, 1971. PT: n, pn, tn, 3 slides. POLAND: Bialowieza, host: *Sicista betulina*, 10. & 15.ix.1949 (Pucek), 10648 & 10730.
- brevicepsicola** [*Campylochirus*] Fain & Lukoschus, 1981c. 2♂2♀ PT, 4 slides. AUSTRALIA, host: *Petaurus breviceps*, 29.xi.1913 (Vosseler), 'Hamburg T 663' (1 slide) & AUSTRALIA: New South Wales, Wandandian, host: *Petaurus breviceps*, 17.vi.1919 (C. M. Hoy), 'Smiths. 221 327' (3 slides).
- canadensis** [*Lutrilichus*] Fain, Lukoschus, Kok & Clulow, 1974. 1♂1♀ PT. CANADA: Hart Township, host: *Mustela erminea*, 9.ix.1970 (Clulow).
- canadensis** [*Orycteroxenus*] Fain, Kok, Lukoschus & Clulow, 1971. 1 PT. CANADA: Hart Township, host: *Mustela erminea*, 9.ix.1970 (Kok).
- carinensis** [*Neotetracopus*] Lukoschus & Gerrits, 1977. PT, 2 slides. MYANMAR: Mt. Karin, host: *Talpa leucura*, 1885-89, 'Fea 151, Hamburg 4143'.
- carollia** [*Speleochir*] Fain & Lukoschus, 1971. PT: 1♀ 1?, 2 slides. SURINAME: Lelydorp, host: *Carollia perspicillata*, 15. & 16.xii.1969 (F. S. Lukoschus).
- chalinolobi** [*Alabidocarpus*] Fain & Lukoschus, 1981b. PT: 1♂3♀, 1♀L, 3 slides. AUSTRALIA: Beagle Bay & Beverley Springs, host: *Chalinolobus gouldii*, 23. & 25.viii.1976 & 19.ix.1976, Kimberley Exp. 2610, 2616, 2743.
- chaparensis** [*Hannemania*] Wohltmann et al., 2006. PT, 1 slide. BOLIVIA: Carrasco Prov., Dept. Cochabamba, Sehuencas, host: *E. platydactylus* (ZFMK 66980), xii.1994 (J. Köhler).
- clavipilis** [*Cheletophyes*] Fain, Lukoschus & Nadchatram, 1980. 1♀ PT. MALAYSIA: Kuala Pilah, host: *Xylocopa (Platynopoda) latipes*, 30.vi.1980 (Ismail).
- cruzi** [*Domingoecius*] Fain & Lukoschus, 1979 in FAIN 1979. 1♀ PT. DOMINICAN REPUBLIC: Guarabo, Santo Domingo, host: *Plagiodontia aedium*, W.L. Abbott, 'Smiths. 239 894'.
- curtus** [*Listrophoroides (Bilistrophoroides)*] Fain & Lukoschus, 1976 in FAIN 1976a. 1 PT. MADAGASCAR: "Antsampanduani" (Antsampandrano?), host: *Limnogale mergulus*, xii.1963 (P. Malzy), 'MNHN Paris'.
- echinosorex** [*Neotetracopus*] Lukoschus & Gerrits, 1977. PT, 1 slide. INDONESIA: Sumatra: Indragiri, host: *Echinosorex gymnurus*, 11.xi.1916 (Fritsche), 'SMF 32469'.
- elegans** [*Laelaps*] Domrow, 1980. 2♀ PT, 1 "morphotype", 3 slides. AUSTRALIA: Mitchell Plateau, host: *Pseudomys nanus*, 21.x.1976, Kimberley Exp. 3084, 3051, 3054.
- eliomys** [*Gliricoptes*] Kok, Lukoschus & Fain, 1971. 1tn PT. TUNISIA: Gafsa/Tunis, host: *Eliomys quercinus*, 1914, 'Museum Wien'.
- galemys** [*Orycteroxenus*] Lukoschus, Woeltjes, Juckwer & Fain, 1979. PT: 1pn, 1dn, 1L, 3 slides. SPAIN: Villoslada, host: *Galemys pyrenaicus*, 8.vii.1971 (Juckwer).
- granulipes** [*Dasyurochirus*] Fain & Lukoschus, 1981c. 1♂1♀ PT, 1 slide. AUSTRALIA: Lake Grace, host: *Sminthopsis granulipes*, 10.iii.1973 (K. Youngson), 'Perth M 10 205'.
- heteromys** [*Metalabidophorus*] Lukoschus, Janssen-Duijghuisen & Fain, 1977. PT, 4 slides. COLOMBIA: Colon, Agricola Caracolicito, host: *Heteromys* sp., Hershkovitz, 'Smiths. 282 097' (3 slides) & PANAMA: Pena, Panama Canal Z., host: *Heteromys desmarestianus*, 8.iii.1961 (Yunker), 'Smiths. 319 910' (1 slide).
- huttereri** [*Demodex*] Mertens, Lukoschus & Nutting, 1983. ♀HT, PT: 1♂ (allotype), 1 egg, 1pn, 1tn, 2L, 7 slides. GERMANY: Bonn, laboratory breed, host: *Apodemus agrarius*, 15.iv.1982, 'Ar 1-7/1983'.
- imerinensis** [*Listrophoroides (Madlistrophoroides)*] Fain & Lukoschus, 1976, in FAIN 1976a. 2♂2♀ PT, 3 slides. MADAGASCAR: Imerina, host: *Microgale thomasi*, 1899 (Grandidier & Sikora).
- insignis** [*Schizocarpus*] Fain & Lukoschus, 1985. 2♂2♀ PT, 4 slides. GERMANY: Diebzig, host: *Castor fiber albicus*, 18.x.1976 (M. Stubbe) (3 slides) & MONGOLIA: Bulgan-gol, host: *Castor fiber birulai*, 14.v.1975 (M. Stubbe) (1 slide).
- insularis** [*Asiolabidophorus*] Lukoschus, Gerrits & Fain, 1977a. PT: 2hy, 1?, 3 slides. TAIWAN: Chuei-feng, host: *Talpa* sp., R.E. Kuntz, 'Smiths. 333 225'.
- leucuræ** [*Asiolabidophorus*] Lukoschus, Gerrits & Fain, 1977a. PT, 12 slides. MYANMAR: Mt. Karin, host: *Talpa leucura*, 1885-89, 'Fea 151, Hamburg 4143'.
- limnogale** [*Dermacarus*] Fain & Lukoschus, 1976a. Current name: *Limnogalobia l.* PT, 4 slides. MADAGASCAR: Antsirabé, host: *Limnogale mergulus*, 1902 (Calvas).
- liomys** [*Metalabidophorus*] Lukoschus, Janssen-Duijghuisen & Fain, 1977. PT, 2 slides. USA: Texas, Brownsville, host: *Liomys innotatus*, vii.1891 (W. Lloyd), 'Smiths. 29 861'.
- lobatitarsis** [*Murichirus*] Fain & Lukoschus, 1981d. 1♂1♀ PT, 2 slides. AUSTRALIA: Queensland, Atherton Table, host: *Melomys cervinipes*, viii.1921, Smiths. (♂) & AUSTRALIA: Port Warrender, host: *Melomys* sp., 30.x.1976, Kimberley Exp. 3140 (♀).

- lukoschusi** [*Echinonyssus*] Tenorio & Radovsky, 1979. 1♀ PT. THE NETHERLANDS: Nijmegen, host: *Talpa europaea*, 6.iv.1972 (F. S. Lukoschus).
- lukoschusi** [*Eutarsopolipus*] Husband, 1986. PT: 1♂2♀, 1♀L, 4 slides. SOUTH AFRICA: Port Nolloth, host: *Thermophilum decemguttatum* (Carabidae), 14.x.1980 (F. S. Lukoschus), 'FL 80 1410'.
- lukoschusi** [*Listrophoroides (Madlistrophoroides)*] Fain, 1976a. 1♂1♀ PT, 2 slides. MADAGASCAR: Vinanitelo, host: *Microgale crassipes* & *M. cowani*, ix.1898 & v.1896 (Grandidier), 'MNHN Paris 1912-70 & 1897-524b'.
- malayi** [*Olabidocarpus*] Fain, 1970b. 1♀ PT. AUSTRALIA: Geikie Gorge, host: *Eptesicus douglasi*, 30.ix.1976, Kimberley Exp. 2846.
- malaysiensis** [*Alabidopus*] Lukoschus, Scheperboer, Fain & Nadchatram, 1981. PT, 1 slide. MALAYSIA: Bukit Lanjan, Selangor, host: *Rattus rajah*, 26.iv.1979, 'Med. Ecol. 110551'.
- marmosae** [*Marsupialichus*] de Cock, Fain, Mendez & Lukoschus, 1975. PT, 1 slide. PANAMA: Rodman, host: *Marmosa robinsoni isthmica*, 21.ix.1972 (Guerrero).
- mastacomys** [*Murichirus*] Fain & Lukoschus, 1981d. 1♂1♀ PT. AUSTRALIA: White's River, host: *Mastacomys fuscus*, 11.ii.1958 (D. Wimbosh), 'WAM M 5285'.
- mexicanus** [*Orycteroxenus*] Lukoschus, Gerrits & Fain, 1977b. 1PT. MEXICO, host: *Blarina mexicana*, M. Diguët, 'Paris 1911-763'.
- microcebus** [*Alabidopus*] Fain & Lukoschus, 1978b. PT, 6 slides. MADAGASCAR, host: *Microcebus pusillus*, 1870 (Grandidier), 'MNHN Paris'.
- microgale** [*Dermacarus*] Fain, 1970a. Current name: *Listrophoroides m.* PT, 4 slides. MADAGASCAR: Vinametelo (1897-226), Jurerinia (1899), Ikongo (Grandidier, 'Paris MNHN 1912-67') & Forêt d'Ikongo, 26.v.1901 ('Paris MNHN 1912-68').
- micromys** [*Trichoecius*] Fain, Munting & Lukoschus, 1969. 1PT. THE NETHERLANDS: Hatert, host: *Micromys minutus*, 27.x.1966 (F. S. Lukoschus).
- microticulus** [*Quasilistrophorus*] Fain, Whitaker & Lukoschus, 1978. PT: 3♂3♀, 3n, 1L, 4 slides. USA: California, Carlotta, host: *Phenacomys longicauda*, 18.ii.1915 (A.H. Howell), 'Smiths. 206 386'.
- minor** [*Asiolaridophorus*] Lukoschus, Gerrits & Fain, 1977a. PT, 2 slides. JAPAN: Sutsuma, host: *Mogera wogura*, Taber, 'Hamburg 152/4144'.
- molossus** [*Neospeleognathopsis (Speleomyotis)*] Fain & Lukoschus, 1971. PT: 1♀, 1 L, 2 slides. SURINAM: Paramaribo, host: *Molossus molossus*, 30.xii.1969 & 11.ii.1970, (F. S. Lukoschus), 44 & 427.
- mongolicus** [*Dermacarus*] Fain & Lukoschus, 1979a. PT, 6 slides. MONGOLIA: Chovd-gol, host: *Dipus sagitta*, 10.vi.1975 (M. Stubbe) (2 slides) & MONGOLIA: Chovd-gol, host: *Allactaga sibirica*, 2. & 11.vi.1975 (M. Stubbe) 72 & 167 (4 slides).
- muris** [*Alabidopus*] Lukoschus, Janssen-Duijghuijsen & Fain, 1979. PT: 2tn, 3hy, 6 slides. AUSTRALIA: Mount Hart, host: *Rattus tunneyi*, 10.ix.1976, Kimberley Exp. (2 slides) & AUSTRALIA: Port Warrender, hosts: *Pseudomys nanus* & *Rattus tunneyi*, 21., 28.-30.x.1976, Kimberley Exp. (4 slides: 3051, 3102, 3112, 3137).
- muris** [*Trichoecius*] Fain, Munting & Lukoschus, 1969. PT, 2 slides. THE NETHERLANDS: Nijmegen, host: *Rattus norvegicus*, 22.i.1968 (F. S. Lukoschus).
- muscardinus** [*Gliricoptes*] Kok, Lukoschus & Fain, 1971. PT: 1♀, 1pn. GERMANY: München, host: *Muscardinus avellanarius*, 18.v.1969 & 8.vii.1969 (F. S. Lukoschus & Henze).
- namibius** [*Regenpolipus*] Husband, 1980. 1♀ PT. SOUTH AFRICA: Grootvlei, host: *Thermophilum decemguttatum*, 1.x.1980 (F. S. Lukoschus), 'FL 80/10 174'.
- neacomys** [*Oryzomysia*] Fain & Lukoschus, 1976, in FAIN 1976b. 1♂2♀ PT, 2 slides. COLOMBIA: Antioquia, host: *Neacomys tenuipes*, 8.iv.1972 (N. E. Peterson), 'Smiths. 499 958'.
- neotropicalis** [*Mediolaridophorus*] Fain & Lukoschus, 1978b. PT, 4 slides. PANAMA: Pena, host: *Heteromys desmerestianus*, 8.iii.1961 (Yunker), 'Smiths. 319 910'.
- nepalensis** [*Soriculopus*] Fain & Lukoschus, 1980. PT: 2 hy, 2 slides. NEPAL: Dhorphan, host: *Soriculus caudatus*, 9.xii.1975 (Weisser).
- nitedulus** [*Gliricoptes*] Kok, Lukoschus & Fain 1971. PT: 2♂1♀, 1tn, 4 slides. POLAND: Bialowieza, host: *Dryomys nitedula*, 2.ix.1958 (Pucek) 20316.
- notiosorex** [*Orycteroxenus*] Lukoschus, Gerrits & Fain, 1977b. PT, 2 slides. MEXICO: Pruria, host: *Notiosorex crawfordi*, 9.viii.1937 (Wagner), 'SMF 12 167'.
- parameces** [*Laelaps*] Domrow, 1980. 2♀ PT, 2 slides. AUSTRALIA: Port Warrender, host: *Conilurus penicillatus*, 29.x.1976, Kimberley Exp. 3110, 3115.
- peruviana costaricensis** [*Oryzomysia*] Fain, 1979. 3♂4♀ PT, 3 slides. COSTA RICA: Palmar Sur, host: *Nectomys* sp., 8.v.1967.
- petauri** [*Ornithonyssus*] Micherdzinski, 1980. PT: 2♂3♀, 3n, 8 slides. AUSTRALIA, host: *Petaurus breviceps*, 29.xi.1913 (Vosseler), 'Hamburg T 663'.
- pteropus** [*Neospeleognathopsis*] Fain & Lukoschus, 1979b. 1♀ PT. AUSTRALIA: Western Australia: Brooking Springs, host: *Pteropus scapulatus*, 7.x.1976, Kimberley-Exped. 2952.
- pygidialis camerounensis** [*Orycteroxenus*] Fain & Lukoschus, 1974. 1PT. CAMEROON: Pt. Elisabeth, host: *Crocidura* sp., 15.xii.1898 (H. Brauns), 'Hamburg T142'.
- quasimelomys** [*Murichirus*] Fain & Lukoschus, 1981d. 1♀ PT. AUSTRALIA: Port Warrender, host: *Melomys* sp., 30.x.1976, Kimberley Exp. 3140.
- quasinudus** [*Scolonoticus*] Fain & Lukoschus, 1981c. 2♂2♀ PT, 4 slides. AUSTRALIA, host: *Petaurus breviceps*, 29.xi.1913 (Vosseler), 'Hamburg T 663'.

- rheinwaldi** [*Leptotrombidium* (*Ericotrombidium*)] Kolebinova, 1979. HT, PT, 31 slides. MOROCCO: Qued Drea, host: *Meriones libycus*, 27.iii.1975 (G. Rheinwald), 273 1975/1, ZFMK 79/14 (HT) & Taroudant, 7.iii.1975; reservoir at Massa river, 21.iii.1975; Bou Izekane, 24.iii.1975, host: *Elephantulus rozeti* & *E. sp.* (G. Rheinwald), 73 1975/2, 5-7, 9-12, 14-19, 21-23, 25-38, ZFMK 79/15-45.
- sacopteryx** [*Hipposideroptes*] Fain & Lukoschus, 1971. 1♀ PT. SURINAME: Lelydorp, host: *Sacopteryx bilineata*, 26.ii.1970 (F. S. Lukoschus) 488.
- sculpturatus** [*Listrophoroides* (*Marquesania*)] Fain, Nadchatram & Lukoschus, 1981, in FAIN 1981. 1♂ PT. MALAYSIA: Kuala Selangor Road 22 mls., host: *Rattus muelleri*, 28.v.1979, 'IMR 169'.
- sibirica** [*Sciuroopsis*] Fain & Lukoschus, 1979a. PT, 3 slides. MONGOLIA: Bulgan-gol & Chovd-gol, host: *Allactaga sibirica*, 28.v.1974, 2. & 11.vi.1975 (M. Stubbe) 72 & 167.
- sminthopsis leucopus** [*Dasyurochirus*] Fain & Lukoschus, 1981c. 2♀ PT, 1 slide. AUSTRALIA: Western Fort, Victoria, host: *Sminthopsis leucopus*, 5.xii.1974 (P. Wooley).
- soricis nepalensis** [*Orycteroxenus*] Kniest, Lukoschus & Weisser, 1982. PT, 2 slides. NEPAL: Dhar Khola, Dhaulagiri, 3300 m a.s.l., host: *Soriculus caudatus*, 3.xii.1975 (Weisser), 693.
- squamatus** [*Neodasyurochirus*] Fain, 1972. 1♀ PT?. AUSTRALIA: Peak Downs, host: *Phascogale* sp., 'Hamburg T 636'.
- stubbei** [*Afrolistrophorus*] Fain & Lukoschus, 1979a. 1♂1♀ PT, 2 slides. MONGOLIA: Chovd-gol & Bulban-gol, host: *Allactaga sibirica*, 2.vi.1974 & 21.v.1975 (M. Stubbe).
- sumatrensis** [*Afrolistrophorus*] Fain, 1980. PT, 4 slides. INDONESIA: Sumatra: Medan, host: *Rhizomys sumatrensis*, v.1971 (Kern) 'SMF 43 687'.
- taiwanensis** [*Lynxacarus* (*Dubininetta*)] Fain & Lukoschus, 1978a. PT: 1♂, 1♂n, 2n, 2L, 5 slides. TAIWAN; host: *Talpa insularis*, 6.v.1965 (Jameson), 'Smiths. 358 675'.
- talpae** [*Atopomelus*] Fain, Lukoschus & Cauwenberghe, 1973. PT: 1♂3♀, tn, eggs. ITALY: Pescasseroli, host: *Talpa romana*, 20. & 21.x.1972 (F. S. Lukoschus).
- tapoatafa** [*Dasyurochirus*] Fain & Lukoschus, 1981c. PT, 1♀n. AUSTRALIA: Mahogany Creek, host: *Phascogale tapoatafa*, 12.xii.1974 (A. Frater).
- tylomys** [*Metalabidophorus*] Lukoschus, Janssen-Duijghuijsen & Fain, 1977. PT, 4 slides. COLOMBIA: Antioquia, host: *Tylomys mirae*, 23.ii.1971 (Peterson), 'Smiths. 499 97'.
- uniformis** [*Listrophoroides* (*Madlistrophoroides*)] Fain & Lukoschus, 1976, in FAIN 1976a. 1♂1♀ PT, 2 slides. MADAGASCAR: Ikongo (Grandidier) & Vinanitelo, ix.1898 (Grandidier), host: *Microgale longicauda* & *M. crassipes*, 'Paris 1912-67' & 'MNHN 1912-70'.
- yungicola** [*Hannemania*] Wohltmann et al., 2006. PT, 1 slide. BOLIVIA: Carrasco Prov., Dept. Cochabamba, Sehuencas, host: *E. platyductylus* (ZFMK 67129), xii. 1994 (J. Köhler).
- zyzomys** [*Murichirus*] Fain & Lukoschus, 1981d. 1♂1♀ PT, 2 slides. AUSTRALIA: Port Warrender, host: *Zyzomys argurus*, 31.x.1976, Kimberley Exp. 3156.

Acari, doubtful type status

The following material is marked as type material but the taxa could not be found in the Zoological Record and were probably never published (A. FAIN, Bruxelles & A. BOCHKOV, Michigan, pers. comm. 2003).

dipus [*Sciuroopsis*] Fain, Kniest & Lukoschus. "PT", 4 slides. MONGOLIA: Chovd-gol, host: *Dipus sagitta*, 10.vi.1975 (M. Stubbe).

ellobius [*Sciuroopsis*] Fain & Lukoschus. "PT", 4 slides. MONGOLIA: Bulgan-gol & Chovd-gol, host: *Ellobius talpinus*, 9.v. & 12.vi.1975 (M. Stubbe).

meriones [*Sciuroopsis*] Fain & Lukoschus. "PT", 6 slides. MONGOLIA: Chovd-gol & Coccocharychne-gol, hosts: *Meriones meridionalis* & *M. unguiculatus*, 6.vi.1974, 9. & 11.vi.1975 (M. Stubbe).

merriami [*Orycteroxenus*] Lukoschus, Kniest & Krantz. "PT", 4 slides. USA: Oregon, Steens Mts., Harney Co., host: *Sorex merriami*, 30.vii.1978 (A. Flecker) 62 & 65.

nannosciurus [*Dermacarus*] Lukoschus, Rothuizen & Fain. "PT", 1 slide. PHILIPPINES: Mindanao, Mt. Katanglad, host: *Nannosciurus surrutilus*, x.1965 (Bregulla), 'SMF 29536'.

nesoryctes [*Dermacarus*] Lukoschus, Kroos & Fain. "PT", 1 slide. MADAGASCAR: Forêt d'Ikongo, host: *Nesoryctes tetradactylus*, 26.v.1901.

oregonensis [*Orycteroxenus*] Lombert, Lukoschus & Gettinger. "PT": 2♂2♀, 1hy, 1L, 1?, 7 slides. USA: Oregon, Corvallis, host: *Sorex vagrans*, 15.i.1974 & 12.vii.1981 (D. Gettinger) (2 slides) & USA: Oregon, Lincoln Co., host: *Sorex vagrans* nest, 18.vi.1981 (D. Gettinger) (5 slides).

ARANEAE

angulatus [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: San Cristóbal Prov., near La Toma (18°27.5'N, 70°07.2'W), degraded forest, 70 m a.s.l., near ground, 7.xi.2005 (B.A. Huber).

aureotibialis [*Ornithoctonus*: Theraphosidae] Wirth & Striffler, 2005. 1♀PT. THAILAND: Bangkok, no date (P. Schmidt), ZFMK Ar001. 1♂PT: THAILAND: Southern Thailand, xii.2000 (M. Bullmer), ZFMK Ar002.

bachata [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: La Vega Prov., near La Ciénaga, (~19°03'N, 70°53'W), ~1100 m a.s.l., path along

- river, under dry rolled-up leaves on ground, 9.xi.2005 (B.A. Huber).
- baoruco** [*Leptopholcus*: Pholcidae] Huber in Huber & Wunderlich 2006. ♂HT. DOMINICAN REPUBLIC: Barahona Prov., Sierra de Baoruco, near Polo, 17.xi.2005 (B.A. Huber).
- berac** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. HAITI: Dept. Sud-Est, broadleaf forest patch ('Berac', 18°19.7'N, 72°17.7'W), La Visite N. P., 1580 m a.s.l., domed sheet connected to underside of green fern leaves, 27.xi.2007 (B.A. Huber).
- ciénaga** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: La Vega Province, near La Ciénaga (19°03'N, 70°53'W, ~1000 m a.s.l.), forest along river, among the dry leaves of a dead epiphyte on the ground, 9.xi.2005 (B.A. Huber).
- crasto** [*Carapoia*: Pholcidae] Huber, 2005. 1♂2♀PT. Brazil: Sergipe, Santa Luzia do Itanhly, 9.-13.ix.1999 (A. D. Brescovit et al.).
- cuadro** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: San Cristóbal Prov., near La Toma (18°27.5'N, 70°07.2'W), degraded forest at 70 m a.s.l., near ground, 7.xi.2005 (B.A. Huber).
- cuarassu** [*Mesabolivar*: Pholcidae] Huber, Brescovit & Rheims, 2005. 1♂1♀PT. Brazil: São Paulo, Itanhaém, Ilha da Queimada Grande, 28.iv.-1.v.2003 (equipe Biota).
- elsaff** [*Nita*: Pholcidae] Huber & El Hennawy, 2007. ♂HT. Egypt: Giza, El Saff, 1.iii.2003 (M. Mohafez), ZFMK Ar005.
- enriquillo** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Barahona Prov., NW of Paraíso at ~18°02.4'N, 71°11.6'W, secondary forest at 180 m a.s.l., dome-shaped webs under dead palm fronds on ground, 7.xii.2007 (B.A. Huber).
- epepye** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. HAITI: Dept. Sud-Est, near Seguin (18°18.2'N, 72°17.5'W, ~990 m a.s.l.), degraded forest with plantations; in the deeper, wet areas of piles of banana sheaths on the ground, 28.xi.2007 (B.A. Huber).
- gordimerae** [*Spermophora*: Pholcidae] Huber, 2003. ♂HT. SOUTH AFRICA: Western Cape, Kirstenbosch Botanical Gardens, Cape Town (~34°00'S, 18°30'E), 12.viii.1978 (A. Russell-Smith).
- jima** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Monseñor Nouel Prov., near Jima (19°01.4'N, 70°28.8'W), degraded forest at brook through plantation, ~700 m a.s.l., near ground, 8.xi.2005 (B.A. Huber).
- kiskeya** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: La Vega Prov., near La Ciénaga (~19°03'N, 70°53'W), path along river, ~1100 m a.s.l., domed web in vegetation, 9.xi.2005 (B.A. Huber).
- leprete** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. HAITI: Dept. Sud, near Le Prete (18°15.9'N, 73°56.7'W), 170 m a.s.l., forest over coffee and banana, sheltered places near ground, 2.xii.2007 (B.A. Huber).
- longipes** [*Haplopelma*: Theraphosidae] Wirth & Striffler, 2005. 1♀PT. THAILAND, 3.iii.2001 (S. Capaninni), ZFMK Ar003. 1♂PT: THAILAND, 15.xii.2001 (T. Klein), ZFMK Ar004.
- macaya** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. HAITI: Dept. Sud, Macaya B.R. at 18°20.4'N, 74°00.9'W, broadleaf forest patch in ravine, 1290 m a.s.l., domed webs in escarpment of ravine, 29.xi.2007 (B.A. Huber).
- makandal** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Santiago Rodríguez Prov., near Cana (19°29.8'N, 71°16.9'W), overhangs along river, 150 m a.s.l., 15.xi.2005 (B.A. Huber).
- mango** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. HAITI: Dept. Sud, Le Prete (18°15.9'N, 73°56.7'W, ~170 m a.s.l.), in small web under dead mango leave on the ground, near river, 2.xii.2007 (B.A. Huber).
- mariposas** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Monseñor Nouel Prov., near Jima (19°01.4'N, 70°28.8'W), degraded forest at brook through plantation ~700 m a.s.l., near ground, 8.xi.2005 (B.A. Huber).
- miri** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Duarte Prov., Reserva Científica Loma Quita Espuela, near summit (19°21.5'N, 70°09'W), 900 m a.s.l., underside of manacra (palm) leaves, 10.xi.2005 (B.A. Huber).
- molimo** [*Quamtana*: Pholcidae] Huber, 2003. ♂HT. LESOTHO: Molimo Nhtuse (~29°20'S, 27°40'E), in herbs and grass, 16.iv.1974 (A. Russell-Smith).
- palvet** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. HAITI: Dept. Sud, Macaya B.R. at 18°20.5'N, 74°01.0'W, ravine with some broadleaf trees in pine forest, 1350 m a.s.l., domed sheets connected to undersides of green leaves, 30.xi.2007 (B.A. Huber).
- paraíso** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: Barahona Prov., ~7 km NW Paraíso (18°02.4'N, 71°11.6'W, ~180 m a.s.l.), forest near river, in vegetation between about 0.5-2 m above the ground, sheet webs connected to undersides of leaves, 7.xii.2007 (B.A. Huber).
- paranapiacaba** [*Metagonia*: Pholcidae] Huber, Rheims & Brescovit, 2005. 4♂4♀PT. BRAZIL: São Paulo, Paranapiacaba, Estação Biológica da Alto da Serra, 14.-15.xii.2003 (Huber, Schulz, Rheims, Indicatti).
- pelejlil** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: San Juan Prov., E of San Juan de la Maguana (18°47.6'N, 71°12.2'W), degraded forest along river, 410 m a.s.l., 16.xi.2005 (B.A. Huber).

- petropolis** [*Metagonia*: Pholcidae] Huber, Rheims & Brescovit 2005. 4♂3♀PT. BRAZIL: Rio de Janeiro, Petropolis, Fazenda Ranchinho da Roça, 8-15.ii.2000 (equipe BIOTA).
- roumaini** [*Modisimus*: Pholcidae] Huber in Huber et al. 2009. ♂HT. HAITI: Dept. Sud-Est, between Léogâne and Jacmel at 18°21.4'N, 72°35.0'W, secondary forest over plantations, near ground, under leaves, 730 m a.s.l., 26.xi.2007 (B.A. Huber).
- russellsmithi** [*Ninetis*: Pholcidae] Huber, 2002. ♂HT. MALAWI: Central Malawi, 12 km S Monkey Bay (~14°03'S, 35°00'E), 19.xii.1977 (A. Russell-Smith).
- samatiaguassu** [*Mesabolivar*: Pholcidae] Huber, Brescovit & Rheims, 2005. 1♂1♀PT. Brazil: São Paulo, Peruíbe, Estação Ecológica Juréia Itatins, 26.iv.-3.v.1999 (Brescovit, Rheims, Pinto da Rocha, Candiani, Japyassu, Mestre).
- seguin** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. HAITI: Dept. Sud-Est, near Seguin at 18°18.2'N, 72°17.5'W, 990 m a.s.l., leaf litter in forest over coffee and banana, 28.xi.2007 (B.A. Huber).
- tiburon** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. HAITI: Dept. Sud-Est, 'Case Dent' (18°20.2'N, 72°16.4'W), La Visite N. P., 1880 m a.s.l., ravine in pine forest, 27.xi.2007 (B.A. Huber).
- toma** [*Leptopholcus*: Pholcidae] Huber in Huber & Wunderlich 2006. ♂HT. DOMINICAN REPUBLIC: San Cristóbal Prov., near Toma, 7.xi.2005 (B.A. Huber).
- toma** [*Modisimus*: Pholcidae] Huber & Fischer in Huber et al. 2009. ♂HT. DOMINICAN REPUBLIC: San Cristóbal Prov., near La Toma (18°27.5'N, 70°07.2'W, ~70 m a.s.l.), degraded forest, under dead leaves on ground, 7.xi.2005 (B.A. Huber).
- ubatuba** [*Carapoia*: Pholcidae] Huber, 2005. 4♂5♀PT. Brazil: São Paulo, Fazenda Angelim, 16.-18.xii.2003 (B. A. Huber).
- una** [*Carapoia*: Pholcidae] Huber, 2005. 1♂PT. Brazil: Bahia, Una, Reserva Biológica do Una, 13.-16.iv.1998 (A. D. Brescovit et al.).
- asiaticum** [*Pycnogonum*] Müller, 1992. ♂HT, 7 PT. MALAYSIA: Pulau Babi Besar, 1-2 m depth, 2.-9.iv.1991 (H.-G. Müller).
- bicorniculata** [*Ammothea*] Stiboy-Risch, 1992. 1♂ adult PT. ANTARCTICA: Princess Martha Coast (73°23'S, 21°30'W), 473 m depth, 18.ii.1985; ZFMK Py 92.1.
- coralliophila** [*Cheilopallene*] Müller, 1992. ♂HT. MALAYSIA: Pulau Tioman, 1-3 m depth, 12.-17.iv.1991 (H.-G. Müller).
- kenyensis** [*Callipallene*] Müller, 1990a. 2 PT. KENYA: near Watamu, south of Malindi, 0-0.5 m depth, 24.vii.-7.viii.1998 (H.-G. Müller).
- macabou** [*Nymphon*] Müller, 1990b. HT, 3 PT. FRENCH ANTILLES: Martinique, Petite Anse de Macabou, 0-1 m depth, 6.-15.iv.1990 (H.-G. Müller).
- magnum** [*Pentapycnon*] Stiboy-Risch, 1994 (junior syn. of *Pentapycnon bouvieri* Pushkin, 1993). 1♀ adult PT. ANTARCTICA: Princess Martha Coast (73°11.1'S, 20°34.15'W), 413-429 m depth, 23.i.1985, ZFMK Py 94.1.
- pseudotarsalis** [*Anoplodactylus*] Müller, 1992. ♂HT, 3 PT. MALAYSIA: Pulau Babi Besar, 1-2 m depth, 2.-9.iv.1991 (H.-G. Müller).
- sandromagni** [*Anoplodactylus*] Krapp, 1996. HT, 8 PT. INDIA: Kerala coast, near Trivandrum, near waterline, ii.1990 (M. Daccordi).
- watamu** [*Ammothea*] Müller, 1990a. 6 PT. KENYA: near Watamu, south of Malindi, 0-0.5 m depth, 24.vii.-7.viii.1998 (H.-G. Müller).

AMPHIPODA

SCORPIONES

- apatris** [*Scorpiobuthus*] Werner, 1939. Present name: *Uroplectes chubbi* Hirst, 1911 (FET & SISSOM 1997). ♀LT, 1♀PLT. INDIA: Central India, had dried up, '83, 84', ZFMK Sc350-1.
- australasiae longimanus** [*Hormurus*] Werner, 1939. Present name: *Liocheles australasiae longimanus* (Werner, 1939) (LOCKET 1997). ♂LT, 1♀PLT. INDONESIA: Sumatra, 'Montes Battak', 'coll. Fruhsdorfer', '110, 111', ZFMK Sc257-8.
- trichiurus paucidens** [*Hadogenes*] Werner, 1939. Present name: *Hadogenes trichiurus weneri* Fet, 1997 (FET 1997). HT. No data, had dried up, '109', ZFMK Sc207.
- alacris** [*Apherusa*] Krapp-Schickel, 1969. PT. CROATIA: Rovinj (Adriatic Sea), *Zostera*, 20-25 m depth, slides Nr. 4/69-76.
- chiereghinii** [*Apherusa*] Giordani-Soika, 1950. 2♀1♂ PT. ITALY: Venice, ZFMK 19 -340-342, slides Nr. 4/46-48.
- eduardi** [*Stenothoe*] Krapp-Schickel, 1976. 1♀ ovigerous PT. ITALY: Naples, Ischia, sponges, ZFMK 19 -145, slide Nr. 2/46.
- elachista** [*Stenothoe*] Krapp-Schickel, 1976. 2♂1♀ PT. ITALY: Livorno, sand, 3-4 m depth, 43°43'10"N, 10°13'40"E, ZFMK 19 -121-123, slides Nr. 2/22-24.
- emancipata** [*Gammaropsis*] Krapp-Schickel & Myers, 1979. 1♂1♀ ST. ITALY: Naples, 25-40 m depth, ZFMK 19 -25-26, slides Nr. 1/26-27 [P1/26 lost].
- pirata** [*Idunella*] Krapp-Schickel, 1974. ST. CROATIA: Dalmacia, Ilarin near Sibenik, 54 m depth, 43°43'00"N, 15°47'36"E, ZFMK 19-14, slide Nr. 1/14.
- psaltrica** [*Liljeborgia*] Krapp-Schickel, 1974. PT. ITALY: Ancona, mud, 95-100 m depth, 42°15'00"N, 15°05'00"E, ZFMK 19-15, slide Nr. 1/15.

PANTOPODA

spuria [*Amphithoe*] Krapp-Schickel, 1978 (present spelling: *Ampithoe spuria*). PT, 12 specimens. CROATIA: Rovinj (Adriatic Sea), ZFMK 19-232-243, slides Nr. 3/36-47.

venetiarrum [*Leucothoe*] Giordani-Soika, 1950. PT. ITALY: Venice, Laguna Veneta, ZFMK 19-155, slide Nr. 2/57.

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