

ABHANDLUNGEN UND BERICHTE
DES NATURKUNDEMUSEUMS GÖRLITZ

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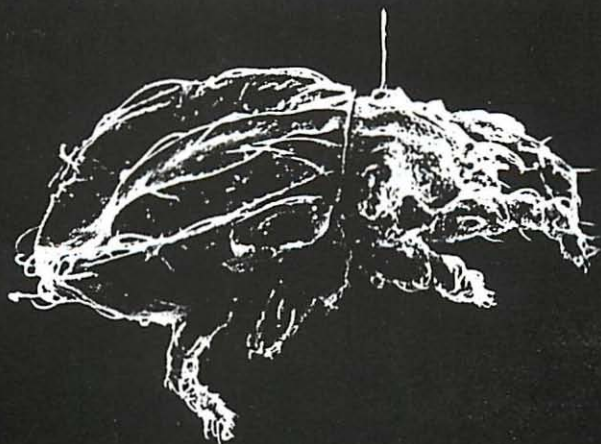
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BIBLIOGRAPHIA ORIBATOLOGICA Zusammengestellt von Thomas Schwalbe

In den ABHANDLUNGEN UND BERICHTEN DES NATURKUNDEMUSEUMS GÖRLITZ werden jährlich die neuesten Oribatidenarbeiten veröffentlicht, soweit sie uns bekannt wurden. Die Zusendung Ihrer Publikationen sowie Informationen über gerade laufende Arbeiten sind die Basis dieser Bibliografie. Vorschläge und Kritiken sind zur Verbesserung sehr willkommen. Es wird eine Kostenbeteiligung von DM 10.- erbeten. Bitte überweisen Sie auf das Konto **6165** bei: **Niederschlesische Sparkasse, BLZ: 850 501 00** (Bitte geben Sie bei „**Verwendungszweck**“ **Bibliographia Oribatologica** an). Um Gebühren zu ersparen, schlagen wir vor, die Beträge für die Nummern 24-26 zusammen zu überweisen, oder Sie schicken die Banknoten in einem Einschreibbrief. Sind Sie an der Bibliographia in Diskettenform interessiert, legen Sie bitte eine Diskette Ihrer Post bei.

In ABHANDLUNGEN UND BERICHTE DES NATURKUNDEMUSEUMS GÖRLITZ latest works on Oribatei are published every year in so far as they have come to our knowledge. The basis of this bibliography is to get your publications as well as informations about your current works. Proposals and criticisms are very welcome for improvement. A cost support of 10.- Deutsche Mark is requested. Please, remit to the account **6165** at **Niederschlesische Sparkasse BLZ: 850 501 00** (write at **purpose** please: **Bibliographia Oribatologica**). To reduce charges we propose to remit the fees for the numbers 24 up to 26 together, or you send bank notes in a registered letter. If you are interested in receiving the bibliography on a disk, please put one to your mail.

Par les ABHANDLUNGEN UND BERICHTE DES NATURKUNDEMUSEUMS GÖRLITZ sont publiés chaque année les articles les plus récents se référant au travail concernant les Oribatei, tant que nous en avons connaissance. L'envoi de vos publications ainsi que des informations sur des travaux en cours sont la base de cette bibliographie. Des propositions et des critiques visant à l'amélioration sont les bienvenues. Une participation aux frais d'un montant de 10.- Deutsche Mark nous paraît nécessaire. Veuillez verser le paiement à l'intitulé du compte suivant: **Niederschlesische Sparkasse BLZ: 850 501 00** Numéro du compte: **6165**. (Comme **but d'utilisation** veuillez écrire: **Bibliographia Oribatologica**). Pour économiser des taxes, nous vous proposons de virer ensemble les montants pour les numéros 24-26, ou bien vous envoyez les billets de banque par lettre recommandée. Si vous êtes intéressé à la Bibliographia sur disquette, veuillez joindre une disquette à votre courrier.

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Nomina nova: Here all new oribatid names are listed as far as they came to our knowledge. Their validity couldn't be examined here. Behind the nomina nova you find in brackets the number of the corresponding title in our card index (see: Publications) with page reference to the beginning of the description.

„*“ behind author's names: These titles were found as a report only (they are not quoted in Cyrillic).

Russian titles: The names of authors of Russian titles are transliterated after the schedule in the Bibliographia Oribatologica No 6 (1973), or the spelling, used by the author himself, is used. The titles of Russian publications are translated into English. They are written in Cyrillic only, if we got the original without any translation.

Dear Acarologists,
in the last few years the production and sending costs rose. We beg for your comprehension, that **Bibliographia Oribatologica** in future will be sent to colleagues only, who return the enclosed order form filled.

Address: Dr. Th. Schwalbe, Staatliches Museum für Naturkunde, F.R. Germany 02806 Görlitz, PF 425

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Nomina nova

New species / New subspecies

<i>Acaroceras africanus</i> Mahunka, 1991	(5108: 567)
<i>Afronothrus arboreus</i> Ramani & Haq, 1992	(5205: 207)
<i>Allogalumna sinornata</i> Mahunka, 1992	(5242: 673)
<i>Apotritia walkerii</i> Norton & Lions, 1992	(5246: 285)
<i>Arthrovertex leucaeaana</i> Corpuz-Raros, 1991	(5152: 143)
<i>Berniniella grandis</i> Gordeeva, 1991	(5207: 40)
<i>Berniniella nana</i> Gordeeva, 1991	(5207: 40)
<i>Berniniella rossica</i> Gordeeva, 1991	(5207: 40)
<i>Brachioppiella (Gressittoppia) magna</i> Lee & Subías, 1991	(5103: 24)
<i>Brachioppiella (Gressittoppia) minima</i> Lee & Subías, 1991	(5103: 25)
<i>Brachioppiella (Brachioppiella) paranasalis</i> Lee & Subías, 1991	(5103: 22)
<i>Brachioppiella (Gressittoppia) pseudohigginsi</i> Lee & Subías, 1991	(5103: 27)
<i>Brachychthonius parahirtus</i> Subías & Gil, 1991	(5106: 4)
<i>Brachychthonius pseudoimmaculatus</i> Subías & Gil, 1991	(5106: 4)
<i>Carabodes chandleri</i> Reeves, 1992	(5248: 2042)
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<i>Carabodes pentasetosus</i> Reeves, 1992	(5248: 2048)
<i>Carabodes polyporetus</i> Reeves, 1991	(5208: 2925)
<i>Cepheus takasago</i> Aoki, 1991	(5210: 75)
<i>Ceratozetes guadarramicus</i> Pérez-Iñigo, 1990	(5131: 14)
<i>Chaunoproctellus rugosus</i> Mahunka, 1992	(5242: 673)
<i>Corynopopia kosarovi maritima</i> Pérez-Iñigo jr., 1990	(5130: 35)
<i>Cosmochthonius (Cosmochthonius) minifoveolatus</i> Gil, Subías & Candelas, 1991	(5219: 57)
<i>Cosmochthonius monegrensis</i> Pérez-Iñigo jr., 1991	(5132: 120)
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<i>Dolicheremaeus infrequens taiwanus</i> Aoki, 1991	(5210: 75)
<i>Dolicheremaeus mariehammerae</i> Corpuz-Raros, 1991	(5152: 139)
<i>Dorycranosus dickersoni</i> Moraza, 1990	(5099: 3)
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<i>Fuscozetes tatricus</i> Seniczak, 1993	(5237: 169)
<i>Galumna clavata</i> Pérez-Iñigo jr., 1991	(5133: 89)
<i>Galumna coronata</i> Mahunka, 1992	(5242: 673)
<i>Galumna glabra</i> Pérez-Iñigo jr., 1991	(5133: 88)
<i>Galumna longiclava</i> Pérez-Iñigo jr., 1991	(5133: 90)
<i>Galumnella apiculata</i> Mahunka, 1992	(5242: 673)
<i>Graptoppia mussardi</i> Mahunka, 1992	(5242: 673)
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<i>Hemileius humeralis</i> Pérez-Iñigo jr., 1991	(5087: 136)

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<i>Heminothrus (Heminothrus) oromii</i> Morell & Subías, 1991	(5221: 84)
<i>Hermannia comparabilis</i> de Wet, 1993	(5257: 23)
<i>Hermannia engelbrechti</i> de Wet, 1993	(5257: 38)
<i>Hermannia exobothridialis</i> de Wet, 1993	(5257: 42)
<i>Hermannia natalensis</i> de Wet, 1993	(5257: 34)
<i>Hermannia nathanaeli</i> de Wet, 1993	(5257: 31)
<i>Hermannia phylliformis</i> de Wet, 1993	(5257: 27)
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<i>Insculptoppia crenata</i> Mahunka, 1992	(5242: 673)
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<i>Jornadia longipilis</i> Pérez-Iñigo jr., 1991	(5133: 81)
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<i>Medioxyoppia nagoyae</i> Ohkubo, 1991	(5209: 69)
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<i>Moritziella jamalica</i> Gordeeva & Grišina, 1991	(5109: 39)
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<i>Multioppia calcarata</i> Mahunka, 1992	(5242: 673)
<i>Neosteganacarus angulatus</i> Balogh & Mahunka, 1992	(5254: 159)
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<i>Nothrus senegalensis</i> Mahunka, 1992	(5242: 673)
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<i>Otocephalus negrosensis</i> Corpuz-Raros, 1991	(5152: 141)
<i>Papillacarus aequalis</i> Mahunka, 1991	(5108: 567)
<i>Papillacarus echinatus</i> Li & Chen, 1991	(5211: 496)
<i>Parachipteria distincta incurva</i> Aoki, 1991	(5210: 75)
<i>Paraphauloppia acutinatata</i> Lee & Birchby, 1991	(5212: 189)
<i>Paraphauloppia globata</i> Lee & Birchby, 1991	(5212: 189)
<i>Paraphauloppia obtusinotata</i> Lee & Birchby, 1991	(5212: 189)
<i>Paraphauloppia triforata</i> Lee & Birchby, 1991	(5212: 189)
<i>Parhylochthonius pilosus</i> Mahunka, 1991	(5108: 567)
<i>Passalozetes imperfectus</i> Pérez-Iñigo jr., 1991	(5087: 134)
<i>Pergalumna minoricana</i> Pérez-Iñigo jr., 1990	(5130: 36)
<i>Pergalumna pauliensis</i> Pérez-Iñigo jr., 1991	(5133: 91)
<i>Perscheloribates minimus</i> Mahunka, 1992	(5242: 673)
<i>Perylobates coreanus</i> Choi & Aoki, 1993	(5258: 23)
<i>Phthiracarus (Archiphthiracarus) falciformis</i> Morell & Subías, 1991	(5221: 80)
<i>Pseudotectoribates minidentatus</i> Ruiz, Subías & Kahwash, 1991	(5100: 143)
<i>Rostrozetes heterotrichus</i> Pérez-Iñigo jr., 1991	(5133: 82)
<i>Rostrozetes inornatus</i> Pérez-Iñigo jr., 1991	(5133: 84)
<i>Scheloribates bicornis</i> Mahunka, 1991	(5108: 567)
<i>Scheloribates exiguus</i> Mahunka, 1992	(5242: 673)
<i>Scheloribates semidesertus</i> Bulanova & Mahmudova, 1991	(5214: 130)
<i>Sellnickochthonius anonymus</i> Ruiz, Subías & Kahwash, 1991	(5102: 60)
<i>Sellnickochthonius fuentesi</i> Ruiz, Subías & Kahwash, 1991	(5102: 62)
<i>Sellnickochthonius plumosus</i> Subías & Gil, 1991	(5106: 7)
<i>Senilochthonius baobah</i> Mahunka, 1992	(5242: 673)
<i>Steganacarus nemoralis</i> Gordeeva, 1991	(5207: 40)
<i>Suctobelbata nova</i> Gordeeva, 1991	(5207: 40)
<i>Suctobelbella harteni</i> Mahunka, 1991	(5108: 567)
<i>Suctotegeus philippinensis</i> Corpuz-Raros, 1991	(5152: 134)
<i>Tricheremaeus travei</i> Miko, 1993	(5263: 177)
<i>Trichogalumnella hauseri</i> Mahunka, 1992	(5242: 673)
<i>Uropia hainardorum</i> Mahunka, 1992	(5242: 673)
<i>Xenillus moonsani</i> Choi & Aoki, 1993	(5258: 24)

New Genera

<i>Apotritia</i> Norton & Lions, 1992	(5246: 285)
Typ. spec.: <i>A. walkeri</i> Norton & Lions, 1992	
<i>Chaunoproctellus</i> Mahunka, 1992	(5242: 673)
Typ. spec.: <i>C. rugosus</i> Mahunka, 1992	
<i>Mantiguercarus</i> Balogh & Mahunka, 1992	(5254: 159)
Typ. spec.: <i>M. baggioi</i> Balogh & Mahunka, 1992	
<i>Minoricoppia</i> Pérez-Iñigo jr., 1990	(5130: 34)
Typ. spec.: <i>M. balearica</i> Pérez-Iñigo jr., 1990	
<i>Multimedippia</i> Subías, 1989	(5105: 123)
Typ. spec.: <i>M. mirena</i> Subías, 1989	
<i>Neosteganacarus</i> Balogh & Mahunka, 1992	(5254: 159)
Typ. spec.: <i>N. angulatus</i> Balogh & Mahunka, 1992	

<i>Nortonacarus</i> Balogh & Mahunka, 1992	(5254: 159)
Typ. spec.: <i>N. veleriae</i> Balogh & Mahunka, 1992	
<i>Onazetes</i> Bugrov, 1991	(5107: 137)
Typ. spec.: <i>O. umbellatus</i> Bugrov, 1991	
<i>Protozetomimus</i> Pérez-Iñigo, 1990	(5023: 397)
Typ. spec.: <i>P. acutirostris</i> (<i>Ceratozetes</i>) Mihelčič, 1957	
<i>Senilochthonius</i> Mahunka, 1992	(5242: 673)
Typ. spec.: <i>S. baobah</i> Mahunka, 1992	
<i>Suctobelbata</i> Gordeeva, 1991	(5207: 40)
Typ. spec.: <i>S. nova</i> Gordeeva, 1991	
<i>Transoribates</i> Pérez-Iñigo, 1992	(5187: 89)
Typ. spec.: <i>Protoribates latus</i> Mihelčič, 1956	
(It's a proposal for the invalid genus <i>Protoribates</i> Berlese, 1908)	
<i>Trichogalumna</i> Mahunka, 1992	(5242: 673)
Typ. spec.: <i>T. hauseri</i> Mahunka, 1992	

New Subgenera

<i>Trichacaroceras</i> Mahunka, 1991	(5108: 567)
Typ. spec.: <i>Acaroceras africanus</i> Mahunka, 1991	

Conferences

XI. International Colloquium on Soil Zoology August 10-14, 1992 in Jyväskylä, Finland

The „Abstracts“ contain concerning the oribatid mites:

Badejo, M. A. & Lasebikan, B. A.:

„Influence of hexazinone residue on soil mites in a semihumid tropical climate.“
(Poster)

Banerjee, S.:

„Ecophysiology of acari in a forest of Surl (Birbhum), West Bengal, India.“ (Poster)

Bellido, A. & Deleporte, S.:

„Macro- / mesofaunal interactions in a deciduous litter: Field experiment on Diptera/
Oribatid mites trophic relations.“ (Poster)

Convey, P.:

„Slow growth rates and extended life span - the life cycle of an Antarctic free living mite.“
(Poster)

Drouk, A. Ya.:

„Structure and composition of microarthropod communities of bogs.“ (Poster)

Fukuyama, K. & Itoh, M.:

„Comparison of Oribatei (*Acari*: Cryptostigmata) communities in soil and needle litter
among differently aged *Cryptomeria japonica* plantation in Japan.“

Golosoza, L. D.:

„Oribatid mites of the Primorsky Kray deciduous forests.“ (Poster)

Kaczmarek, M. & al.:

„Diversity of grassland vegetation and its effect on soil fauna and decomposition
Processes.“ (Poster)

Kaneko, N.:

„Composition of feeding types in oribatid mite communities in forest soils.“ (Poster)

- Krivoluzkij, D. A.:
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- Laskova, L. M.:
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- Miko, L. & Kováč, L.:
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 „An analysis of the structure of the microarthropod assemblages in fungal fruiting bodies.“
- Parra, X. & al.:
 „Structure of an edaphic microarthropod community in a mediterranean holm-oak wood.“ (Poster)
- Rosche, O.:
 „Influence of Nitrogen fertilizer on the structure of soil microarthropod communities in an agro-ecosystem.“ (Poster)
- Roth, M.:
 „Investigations on lead in soil invertebrate food chains in a forest ecosystem, contaminated by Pb-emission from car exhausts.“ (Poster)
- Sanyal, A. K.:
 „Soil pollution and soil inhabiting oribatid (Acari: Oribatida) communities in Calcutta.“ (Poster)
- Sarkar, S.:
 „Oribatid mites as bioindicators.“ (Poster)
- Schwalbe, T.:
 „Investigations on Oribatei in SO₂-immission influenced spruce forests of the Osterzgebirge mountains.“ (Poster)
- Seniczak, S. et al.:
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 „The associations of Bacteria with some soil mites (Acari: Oribatida and Acarida.)“
- Stamou, G. P.:
 „Life histories organization and adaptive strategies of soil arthropods from mediterranean type ecosystems.“ (Poster)
- Tingle, C. C. D.:
 „The effect of DDT on litter decomposition and soil fauna in arid savannah woodland.“ (Poster)

Vreeken-Buijs, M. J. & Geurs, M.:

„Microarthropod biomass-C dynamics in integrated and conventional farming system.“

Vũ, Q. M.:

„The microarthropod community structures in the soil of Vietnam.“ (Poster)

Weigmann, G.:

„Effects of urban impact on forest soil fauna.“ (Poster)

II. Symposium of EURAAC 1992

August 31 - September 6, 1992

The programme contains concerning the oribatid mites:

Alekseev, A. N.: „Pathomorphological changes in oribatid mites in polluted area of Leningrad region.“

Miko, L.: „Succession of oribatid mite community in different litter type on the field edge.“

Murphy, P. W.: „Mite - higher plant associations among the Oribatida.“

Niedbala, W.: „Supplement to the classification of Phthiracaroida (Acari, Oribatida, Euptyctima).“

Piffil, E.: „Chelicere of Gustaviidae.“

Schuster, R.: „Ecomorphology of littoral mites.“

Woas, S.: „The problem of phylogenetical relationship within higher Oribatei.“

Conferences in the next future

The IXth International Congress of Acarology

will be held at the Ramada University Hotel and Conference Centre, Columbus, Ohio, U.S.A. 17-22 July 1994. Of importance for oribatologists may be

Proposed Symposia: Acarine communities and environmental perturbations, Genetic systems in Acari, Interactions between mites and other arthropods, Phylogenetic perspectives on mite ecology, Population dynamics of plant-inhabiting mites: theory and experiment, Semichemicals in acarine interaction, Proposed Workshops: Molecular methods in acarological studies, Development of culture techniques for acari,

Submitted Paper and Poster sessions: Genetics and population biology, Mites and honey bees, Mites in soil habitats, Morphology and phylogeny

For further information and addition of your name to the mailing list, please write to: The secretary, IX International Congress of Acarology, Acarology Laboratory, Museum of Biological Diversity, The Ohio State University, 1315 Kinnear Road, Columbus, OH 43212, U.S.A.

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Review

Günter Haumann (1991): „Zur Phylogenie primitiver Oribatiden (Acari: Oribatida).“
[Orig.: deutsch]

dbv-Verlag, Graz, Austria. ISBN 3-7041-0194-X

This thesis on the phylogeny of Oribatida bases on the consequent application of phylogenetic systematics. A theoretical introduction presents the rules of argumentations in the sense of W. Hennig. These reflections point out the theory of cognition which allows to establish a cladogram or a congruent classification of „Primitive oribatid mites“ in the sense of Grandjean and later taxonomists. In contrast to Grandjean's approach on a phylogenetic system of oribatids, where very often taxa are based on additions of plesiomorphous characters (the status of characters has not been reflected), Haumann tries to reconstruct monophyletic groups on synapomorphous characters only. The transparency of his method and his theoretical basis allows him to give the statement: „As every step of decision-finding in the course of phylogenetic reconstruction has to be demonstrated explicitly, the results stay testable and open to critics.“

The main tool of analysis is a large list of morphological characters of the described taxa (genera and higher), presented in a simple codation. On each of the characters and the morphological differentiations there is a critical discussion whether it might be regarded as convergency. There are a lot of problematic decisions, but most of them seem to me acceptable. In such cases the consequences of different interpretations have been discussed, allowing sufficient transparency of the argumentations.

The main results may be presented by citing the abstract: „The primitive oribatids and the Macropylina are paraphyletic groups; the higher oribatids (Circumdehiscentiae) constitute a monophyletic taxon. The two fundamental sister-groups of the Oribatida are not Macropylina and the Brachypyliina (the latter are also monophyletic) but the Palaeosomata and the new taxon Monofemorata nov. The Monofemorata split into the sister-groups Enarthronota and the new taxon Novoribatida nov. The ptychoid body-articulation has not been evolved once but three times, in the Mesoplophoridae, Protophloridae and Eupycitima.“

The phylogenetic relationships within the „primitive oribatids“, being a paraphyletic group, and the relationships within some smaller monophyla (Palaeosomata, Mesoplophoridae, Brachychthoniidae, Lohmanniidae and Euphthiracaridae) are presented in cladograms and in sufficient comments. The reviewer comes to the result that this phylogenetic approach is the best published up to now on the whole „primitive oribatids“, being a consequent and convincing hypothesis of oribatid phylogeny, which is based more on the gigantic and imposing work of Grandjean than on some recent systematic designs using more or less typological characters for classification. However, acceptable phylogenetic analyses in recent literature have been integrated in this phylogram.

There are a lot of problems left unsolved, though. One of these, the phylogenetic concept is no taxonomic system up to now. The problem of systematic categories cannot be answered by Hennig's phylogenetic cladograms, and probably for this reason taxonomy has been faded out by Haumann. It is important to adopt a taxonomic concept to this phylogenetic one in future. Each higher taxon than species has to be based on arguments of monophyly! But there are no general criteria as convincing as those for phylogenetic cladograms.

This book deserves being translated into English, because it should be read by everybody dealing with oribatid systematics and taxonomy. It deserves being discussed critically as a basis for a new start towards a phylogenetic system of oribatids.

Gerd Weigmann, Berlin