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Wojciech B. JĘDRYCKOWSKI

Pseudoscorpions (*Pseudoscorpionida*) of Vietnam

Abstract: Basing on literature data 48 species of pseudoscorpions have been recorded from Vietnam, 27 of them are known exclusively from this country. It seems, that pseudoscorpions fauna is mainly of Oriental character.

Key words: pseudoscorpions, Vietnam.

Author's address: Museum of Hunting and Horsemanship, Szwoleżerów 9, 00-464 Warszawa, POLAND, e-mail: wjedrycz@wa.onet.pl

INTRODUCTION

Very little is known about species composition and ecology of *Pseudoscorpionidea* in Vietnam. Most information come from old collections, that have been worked out by a few scientists and published in wide spread papers. It makes a study of Vietnam fauna troublesome and consumes time looking through literature.

Every taxonomic and faunistic project undertaken on pseudoscorpions in Vietnam needs basic information about the state of knowledge of this group as well as literature required for the study. The knowledge of this group in Vietnam is insufficient and there were only few authors working on oriental *Pseudoscorpionida*.

The reason of this paper was to list all species known from Vietnam and to do a provisional zoogeographical analyse. All fundamental references have been gather together with an intention to help with study of this interesting and little known group. The systematic order in this publication as well as names of species have been based on Harvey fundamental work of *Pseudoscorpionida* (1990).

LIST OF SPECIES

Family: Chthoniidae

Lagynochthonius annamensis (BEIER, 1951).

Tyrannochthonius (Lagynochthonius) annamensis: BEIER 1951.

Lagynochthonius annamensis: CHAMBERLIN 1962.

Localities: Pic de Langbian.

Distribution: Vietnam

Lagynochthonius tonkinensis (BEIER, 1951).

Tyrannochthonius (Lagynochthonius) tonkinensis: BEIER 1951.

Lagynochthonius tonkinensis: CHAMBERLIN 1962.

Localities: Fan Si Pan.

Distribution: Vietnam.

Lechytiya asiatica REDIKORZEV, 1938.

Lechytiya asiatica: ROEWER 1940, BEIER 1951.

Localities: Da Lat.

Distribution: Vietnam.

Tyrannochthonius perpusillus BEIER, 1951.

Localities: Da Lat, Cao Nguyên Lêm Viên.

Distribution: Vietnam.

Tyrannochthonius pusillimus BEIER, 1951.

Localities: Cao Nguyên Lêm Viên.

Distribution: Vietnam.

Tyrannochthonius robustus BEIER, 1951.

Localities: Cao Nguyên Lêm Viên.

Distribution: Vietnam.

Family: Tridenchthoniidae

Compsaditha parva BEIER, 1951.

Localities: Lo-Ku-Ho, Cha Pa.

Distribution: Vietnam.

Ditha proxima (BEIER, 1951).

Compsaditha proxima BEIER, 1951.

Ditha proxima: BEIER 1976, ČURČIĆ 1979, 1980, SCHAWALLER 1983, 1987.

Ditha numburensis MORIKAWA, 1968.

Localities: Da Lat, Cao Nguyễn Lâm Viên.

Distribution: Bhutan, Nepal, Vietnam.

Ditha tonkinensis BEIER, 1951.

Localities: Cha Pa.

Distribution: Vietnam.

Family: Olpiidae

Garypinus vachoni REDIKORZEV, 1938.

Garypinus vachoni: BEIER 1951.

Garypus [sic!] *vachoni*: ROEWER 1940.

Localities: Ba Ngoi.

Distribution: Cambodia, Vietnam.

Family: Hyidae

Stenohya vietnamensis BEIER, 1967.

Localities: Da Lat.

Distribution: Vietnam.

Family: Ideoroncidae

Nhatrangia dawydoffi REDIKORZEV, 1938.

Nhatrangia dawydoffi: ROEWER 1940, BEIER 1951, MAHNERT 1984.

Shravana dawydoffi: BEIER 1967a.

Localities: Nha Trang, Pleiku, Phan Rang.

Distribution: Cambodia, Vietnam.

Family: Neobisiidae

Bisetocreagris annamensis (BEIER, 1951).

Microcreagris annamensis: BEIER 1951.

Bisetocreagris annamensis: ČURČIĆ 1983.

Localities: Cao Nguyễn Lâm Viên.

Distribution: Vietnam.

Bisetocreagris parablothroides (BEIER, 1951).

Microcreagris parablothroides: BEIER 1951.

Bisetocreagris parablothroides: ČURČIĆ 1983.

Localities: Cha Pa.

Distribution: Vietnam.

Microcreagris indochinensis REDIKORZEV, 1938.

Localities: Pleiku.

Distribution: Vietnam.

Family: Cheiridiidae*Apocheiridium pelagicum* REDIKORZEV, 1938.*Apocheiridium pelagicum*: DAWYDOFF 1940, ROEWER 1940, VACHON 1940, BEIER 1948, BEIER 1951.

Localities: Cu Lao Cham, Nha Trang, Poulo Condore.

Distribution: Cambodia, Vietnam.

Family: Sternophoridae*Afrosterphorus chamberlini* (REDIKORZEV, 1938).*Sternophorus chamberlini*: REDIKORZEV 1938.*Sternophorus chamberlini*: ROEWER 1940, BEIER 1951.*Afrosterphorus chamberlini*: HARVEY 1985.

Localities: Da Lat.

Distribution: Laos, Vietnam.

Afrosterphorus dawydoffi (BEIER, 1951).*Sternophorus dawydoffi*: BEIER 1951.*Sternophorus cylindricornis*: BEIER 1951.*Afrosterphorus dawydoffi*: HARVEY 1985.

Localities: ?

Distribution: Cambodia, Vietnam.

Afrosterphorus fallax HARVEY, 1985.*Sternophorus chamberlini*: REDIKORZEV 1938, BEIER 1951.

Localities: Cao Nguyên Lớn Việt.

Distribution: Vietnam.

Family: Atemnidae*Anatemnus angustus* REDIKORZEV, 1938.*Anatemnus angustus*: ROEWER 1940, BEIER 1951, 1955, 1967a, 1976.

Localities: Djiring.

Distribution: Bhutan, Malaysia, Vietnam.

Anatemnus subverniformis REDIKORZEV, 1938.

Anatemnus subverniformis: ROEVER 1940, BEIER 1951.

Localities: Suoi-Tring.

Distribution: Laos, Vietnam.

Metatemnus unistriatus (REDIKORZEV, 1938).

Anatemnus unistriatus: REDIKORZEV 1938.

Anatemnus unistriatus: ROEWER 1940.

Metatemnus unistriatus: BEIER 1951.

Localities: Da Lat.

Distribution: Vietnam.

Oratemnus boettcheri BEIER, 1932.

Oratemnus böttcheri: BEIER 1932a, 1932b, 1966a, ROEWER 1937.

Oratemnus boettcheri: BEIER 1967a.

Localities: Vietnam.

Distribution: Philippines, Vietnam.

Oratemnus saigonensis (BEIER, 1930).

Chelifer saigonensis: BEIER 1930.

Anatemnus saigonensis: BEIER 1932a, 1932b, ROEWER 1937.

Oratemnus timorensis: REDIKORZEV 1938.

Oratemnus saigonensis: BEIER 1951, 1967a, CHAPMAN 1984.

Localities: Ho Chi Minh.

Distribution: Cambodia, Laos, Malaysia, Thailand, Vietnam.

Oratemnus semidivisus REDIKORZEV, 1938.

Oratemnus semidivisus: ROEWER 1940, BEIER 1951.

Localities: Da Lat, Mt Hon-Ba.

Distribution: Cambodia, Vietnam.

Paratemnoides curtulus (REDIKORZEV, 1938).

Atemnus curtulus: REDIKORZEV 1938.

Atemnus curtulus: ROEWER 1940.

Paratemnus curtulus: BEIER 1951, 1967a.

Localities: Arbré-Broyé, Da La, Poulo-Condore, Pleiku.

Distribution: Cambodia, Vietnam.

Paratemnoides redikorzevi (BEIER, 1951)*Anatemnus robustus*: REDIKORZEV 1938.*Anatemnus robustus*: ROEWER 1940.*Paratemnus redikorzevi*: BEIER 1951.

Localities: Kontum.

Distribution: Thailand, Vietnam.

Stenatemnus extensus BEIER, 1951.*Stenatemnus extensus*: BEIER 1976.

Localities: Cao Nguyễn Lê Viên.

Distribution: Bhutan, Vietnam.

Family: Cheliferidae*Amaurochelifer annamensis* BEIER, 1951.

Localities: Pic de Langbian.

Distribution: Vietnam.

Ancistrochelifer agniae BEIER, 1951.

Localities: Phsar Ream.

Distribution: Cambodia, Vietnam.

Lissochelifer gibbosounguiculatus (BEIER, 1951).*Lophochelifer gibbosounguiculatus*: BEIER 1951.

Localities: Cao Nguyễn Lê Viên.

Distribution: Vietnam.

Lissochelifer tonkiensis (BEIER, 1951).*Lophochelifer tonkiensis*: BEIER 1951.

Localities: Fan Si Pan.

Distribution: Vietnam.

Lophochernes alter BEIER, 1951.

Localities: Cao Nguyễn Lê Viên.

Distribution: Vietnam.

Lophochernes bisulcus (THORELL, 1889).*Chelifer bisulcus*: THORELL 1889.*Lissochelifer bisulcus*: CHAMBERLIN 1932.*Lophochernes bisulcus*: BEIER 1932b, 1943, 1967a, 1967b, ROEWER 1937, MURTHY and ANANTHAKRISHANAN 1977.

Localities: ?

Distribution: Bangladesh, Burma, India, Thailand, Vietnam.

Lophochernes brevipes REDIKORZEV, 1938.

Lophochernes brevipes: ROEWER 1940, BEIER 1951.

Localities: Phu Tho.

Distribution: Vietnam.

Lophochernes obtusecarinatus BEIER, 1951.

Localities: Cao Nguyễn Lê Viên.

Distribution: Thailand, Vietnam.

Lophochernes semicarinatus REDIKORZEV, 1938.

Lophochernes semicarinatus: ROEWER 1940, BEIER 1951.

Localities: Pleiku, Kontum, Nha Trang.

Distribution: Vietnam.

Metachelifer dubosqui REDIKORZEV, 1938.

Metachelifer dubosqui: ROEWER 1940, BEIER 1951, 1966a.

Localities: Da Lat.

Distribution: Cambodia, Laos, Philippines, Vietnam.

Tetrachelifer pusillus (REDIKORZEV, 1938).

Lophochernes pusillus: REDIKORZEV 1938.

Lophochernes pusillus: ROEWER 1940, BEIER 1951.

Tetrachelifer pusillus: BEIER 1967a.

Localities: Da Lat.

Distribution: Vietnam.

Tetrachelifer vietnamensis BEIER, 1967.

Tetrachelifer vietnamensis: TENORIO and MUCHMORE 1982.

Localities: Postal de M'drah.

Distribution: Vietnam.

Family: Chernetidae

Megachernes titanius BEIER, 1951.

Megachernes titanius: BEIER 1967c.

Localities: Lang Bian Peaks.

Distribution: Vietnam.

Megachernes vietnamensis BEIER, 1967.*Megachernes vietnamensis*: TENORIO and MUCHMORE 1982.

Localities: Thac Da Tan La.

Distribution: Vietnam.

Verrucachernes oca J. C. CHAMBERLIN, 1947.*Microchernes orientalis*: BEIER 1951.*Microchernes insularis*: BEIER 1953.*Chernes scorpioides*: DADAY 1897.*Verrucachernes oca*: BEIER 1957, 1966b, 1970, HARVEY 1988.*Microchernes orientalis*: BEIER 1973.*Verrucachernes orientalis*: BEIER 1975.*Verrucachernes insularis*: BEIER 1975.*Micratemnus* [sic!] *orientalis*: BEIER 1976.

Localities: Ha Tien.

Distribution: Bhutan, Cambodia, Caroline Islands, Indonesia, Mariana Islands, Marshall Islands, Papua New Guinea, Solomon Islands, Sri Lanka, Vietnam.

Family: Withiidae*Hyperwithius annamensis* (REDIKORZEV, 1938).*Sundowithius annamensis*: REDIKORZEV 1938.*Sundowithius annamensis*: ROEWER 1940.*Hyperwithius annamensis*: BEIER 1951.

Localities: Mt Ba Na.

Distribution: Vietnam.

Hyperwithius dawydoffi BEIER, 1951.

Localities: Cao Nguyễn Lê Viên.

Distribution: Vietnam.

Hyperwithius tonkinensis BEIER, 1951.

Localities: Lau Chau.

Distribution: Vietnam.

Metawithius spiniventer REDIKORZEV, 1938.*Metawithius spiniventer*: ROEWER 1940, BEIER 1951, 1955, 1967a.

Localities: Mt Hon-Ba, Mt Ba Na.

Distribution: Cambodia, Malaysia, Thailand, Vietnam.

Metawithius yurii (REDIKORZEV, 1938).

Microwithius yurii: REDIKORZEV 1938.

Microwithius yurii: ROEWER 1940, BEIER 1951.

Metawithius yurii: BEIER 1955, HARVEY 1988.

Localities: Paulo-Condore.

Distribution: Cambodia, Indonesia, Vietnam.

CONCLUSIONS

Among 48 species recorded from Vietnam, 27 (56% of pseudoscorpions fauna) are known exclusively from that country. It makes impression of a great endemism of the pseudoscorpions fauna in Vietnam. It could be partly true, but the current knowledge of the Vietnam fauna is too poor for a final conclusion. 12 species (25%) recorded from Vietnam is known from whole Indochina peninsula especially from Cambodia and Laos. It is interesting that there are only 9 species of wide distribution – 6 of them are frequent in whole Orient and 3 are known even from Pacific Islands. It is too early for final conclusion about faunistic and ecological factors in distribution of pseudoscorpions in Vietnam. Nevertheless it seems, that the pseudoscorpions fauna of Vietnam is of Oriental character.

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 STRESZCZENIE

[Tytuł: Zaleszczotki (*Pseudoscorpionida*) Wietnamu]

Na podstawie literatury i materiałów znajdujących się w kolekcjach zestawiono listę gatunków zaleszczotków znanych z Wietnamu. Wykazano 48 gatunków, z których 27 jak dotąd wyłącznie z tego kraju. 12 gatunków występuje na terenie całego Półwyspu Indochińskiego, 6 gatunków ma zasięgi orientalne, a 3 następne swym zasięgiem obejmują wyspy Zachodniego Pacyfiku. Fauna zaleszczotków Wietnamu ma zdecydowanie charakter orientalny.

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