



## An annotated checklist of centipedes (Chilopoda) of Vietnam

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### Abstract

The centipede fauna of Vietnam is reviewed from the literature. A total of 71 species in 26 genera, 13 families in four orders, Scolopendromorpha, Geophilomorpha, Lithobiomorpha and Scutigleromorpha, has been recorded from Vietnam. Four genera, *Tonkinodentus*, *Alluropus*, *Anopsobiella* and *Megalacrus*, are monotypic; and twenty-two species and subspecies are known only from Vietnam. Distribution data for each species is provided here to promote further studies on the centipede fauna of Vietnam.

**Key words:** checklist, centipedes, Chilopoda, Vietnam

### Introduction

Located in the tropics of Southeast Asia, Vietnam is considered as a part of the Indo-Burmese biodiversity center (Sterling *et al.*, 2006). Because of its significant north-south range, having areas of low to high altitudes and different climatic conditions, Vietnam is expected to harbor rich faunas of terrestrial arthropods, including centipedes. However, the Vietnamese centipedes have as yet been inadequately studied.

Centipedes in Vietnam have been described in various papers, but mainly in the publications of Attems (1938, 1953). Only scolopendromorphs have been treated recently and carefully by Schileyko (1992, 1995, and 2007).

The paper presents a review of the existing literature related to Vietnamese centipedes. It is presented as a foundational work for promoting further studies on Vietnamese centipedes.

### Methodology

The checklist was compiled from a literature review. The material examined by Attems (1938, 1953) is currently deposited in Naturhistorischen Museums Wien in Vienna (Austria); and all scolopendromorphs studied by Schileyko (1992, 1995, and 2007) are being kept in the Zoological Museum of University of Moscow (Russia). However, type material was not examined for this study.

The classification for Chilopoda follows Minelli *et al.* (2006 onward) and Minelli (2011). Families, genera within families and species within genera are listed alphabetically. Appropriate citations for each species are given if they provide original records for Vietnam, and/or affect taxonomy of the species, and/or provide important geographical records of the species. Remarks on taxonomic problems or locality records are being discussed.

## Systematic accounts

### ORDER SCOLOPENDROMORPHA

#### FAMILY CRYPTOPIDAE KOHLRAUSCH, 1881

#### Genus *Cryptops* Leach, 1815

##### *Cryptops (C.) doriae* Pocock, 1891

*Cryptops doriae* Pocock, 1891b: 421  
*Cryptops (C.) doriae*—Attems, 1930: 214  
*Cryptops (C.) doriae*—Attems, 1938: 338  
*Cryptops doriae*—Attems, 1953: 138  
*Cryptops (C.) doriae*—Schileyko, 1992: 8  
*Cryptops (C.) doriae*—Schileyko, 1998: 262, 268  
*Cryptops (C.) doriae*—Schileyko, 2001: 438  
*Cryptops (C.) doriae*—Schileyko, 2007: 86, fig. 9  
*Cryptops (C.) doriae*—Lewis, 2007: 15, figs 11-16

*Cryptops (C.) audax*—Schileyko, 1992: 7  
*Cryptops (C.) japonicus*—Schileyko, 1998: 268  
*Cryptops (C.) japonicus*—Schileyko, 2001: 439

*Cryptops (C.) niuensis*—Schileyko, 1998: 268  
*Cryptops (C.) niuensis*—Schileyko, 2001: 438

**Previous records.** LAO CAI (Sa Pa; Hoang Lien NP); HAI PHONG (Cat Ba NP); QUANG NINH (Mong Cai; Dong Kho Island); DA NANG (Ba Na NP); QUANG NAM (Cu Lao Cham Island); KHANH HOA (Nha Trang; Hon Ba Mts.); GIA LAI (An Khe District, Buon Luoi); DAK LAK (Ban Me Thuat); LAM DONG (Da Lat, Langbian Mts.; D'ran; Di Linh); Tho Chu Island; Spratly Archipelago (Itu Aba Island) (Attems, 1938; Schileyko, 1992, 2007)

**Remarks.** Also known from Nepal; India; Myanmar; Cambodia; Laos; Indonesia; Papua New Guinea; Seychelles (Attems, 1930; Schileyko, 2007).

##### *Cryptops (C.) tahitianus* Chamberlin, 1920

*Cryptops (C.) tahitianus* Chamberlin, 1920: 8  
*Cryptops (C.) tahitiana*—Attems, 1930: 214  
*Cryptops (C.) tahitiana*—Attems, 1953: 145, figs 12–14  
*Cryptops (C.) tahitiana*—Schileyko, 2007: 90

**Previous records.** LAO CAI (Fansifan Mts.); PHU THO (Phu Ho); THUA THIEN HUE (Hue); DA NANG (Ba Na NP); LAM DONG (Langbian Mts.) (Attems, 1953).

**Remarks.** The species is originally known from India (Chamberlin, 1920). The records in Vietnam are doubtful, and need to be exactly confirmed (Schileyko, 2007).

##### *Cryptops (Trigonocryptops) spinipes* Pocock, 1891

*Cryptops spinipes* Pocock, 1891a: 156  
*Cryptops (Cryptops) spinipes*—Attems, 1930: 231, fig. 230  
*Cryptops (C.) spinipes*—Schileyko, 1992: 7  
*Cryptops (C.) spinipes*—Schileyko, 2001: 439  
*Cryptops (C.) spinipes*—Schileyko, 2007: 90  
*Cryptops (T.) spinipes*—Edgecombe, 2005: 322

**Previous records.** HAI PHONG (Cat Ba NP); DONG NAI (Cat Tien NP) (Schileyko, 1992, 2007)

**Remarks.** Also known from New Zealand; Australia; New Guinea; Fiji; Solomon Islands (Attems, 1930; Schileyko, 2007; Edgecombe, 2005).

### **Genus *Paracryptops* Silvestri, 1924**

#### ***Paracryptops indicus* Silvestri, 1924**

*Paracryptops indicus* Silvestri, 1924: 74  
*Paracryptops indicus*—Attems, 1930: 245, figs 321-322  
*Paracryptops indicus*—Schileyko, 1992: 7  
*Paracryptops indicus*—Schileyko, 1995: 74  
*Paracryptops indicus*—Schileyko, 1998: 268  
*Paracryptops indicus*—Schileyko, 2001: 439  
*Paracryptops indicus*—Schileyko, 2007: 91, fig. 10

**Previous records.** GIA LAI (Pleiku; An Khe, Buon Luoi); LAM DONG (Da Lat); DONG NAI (Ma Da; Cat Tien NP); KIEN GIANG (Tho Chu Island) (Schileyko, 1992, 2007).

**Remarks.** Also known from India (Attems, 1930; Schileyko, 2007).

### **Genus *Tonkinodentus* Schileyko, 1992**

*Tonkinodentus lestes* Schileyko, 1992  
*Tonkinodentus lestes* Schileyko, 1992: 13, fig. 2e  
*Tonkinodentus lestes*—Schileyko, 1995: 74  
*Tonkinodentus lestes*—Schileyko, 1998: 267, 268  
*Tonkinodentus lestes*—Schileyko, 2001: 437  
*Tonkinodentus lestes*—Schileyko, 2007: 83, figs 7–8  
*Tonkinodentus lestes*—Bonato *et al.*, 2011: 400

**Previous records.** DAK LAK (Ban Me Thuat); DONG NAI (Ma Da) (Schileyko, 1992, 2007).

**Remarks.** Only known from Vietnam.

## **FAMILY SCOLOPENDRIDAE POCOCK, 1895**

### **Genus *Alluopus* Silvestri, 1911**

#### ***Alluopus demangei* Silvestri, 1911**

*Alluopus demangei* Silvestri, 1911: 44, fig. 1  
*Alluopus demangei*—Attems, 1930: 198  
*Alluopus demangei*—Schileyko, 2007: 92

**Previous records.** HA NAM (Phu Ly) (Silvestri, 1911)

**Remarks.** Only known from Vietnam.

## Genus *Asanada* Meinert, 1886

### *Asanada brevicornis* Meinert, 1886

*Asanada brevicornis* Meinert, 1886: 189  
*Asanada brevicornis*—Chamberlin, 1920: 23  
*Asanada brevicornis*—Attems, 1930: 123, figs 159–163  
*Asanada brevicornis*—Attems, 1938: 336  
*Asanada brevicornis*—Attems, 1953: 138  
*Asanada brevicornis*—Schileyko, 1992: 7  
*Asanada brevicornis*—Schileyko, 1995: 78, fig. 6  
*Asanada brevicornis*—Schileyko, 1998: 268  
*Asanada brevicornis*—Schileyko, 2001: 436  
*Asanada brevicornis*—Schileyko & Stagl, 2004: 112  
*Asanada brevicornis*—Schileyko, 2007: 76

*Asanada sinaitica*—Schileyko, 1992: 7

**Previous records.** GIA LAI (Pleiku); LAM DONG (Da Lat); KHANH HOA (Nha Trang, Cau Da); BA RIA – VUNG TAU (Con Dao Island); KIEN GIANG (Tho Chu Island) (Schileyko, 1992, 1995, 2007; Attems 1938).

**Remarks.** Also known from India, Himalayas, Kulu, China, Myanmar, Reef Island, Andaman Islands; New Guinea; Australia (Attems, 1930; Schileyko, 1995, 2007, Schileyko & Stagl, 2004).

## Genus *Ethmostigmus* Newport, 1845

### *Ethmostigmus rubripes platycephalus* (Newport, 1845)

*Heterostoma platycephala* Newport, 1845: 415  
*Ethmostigmus platycephalus*—Chamberlin, 1920: 21  
*Ethmostigmus platycephalus*—Attems, 1930: 180  
*Ethmostigmus platycephalus platycephalus*—Schileyko, 1998: 269  
*Ethmostigmus rubripes platycephalus*—Schileyko & Stagl, 2004: 121, figs 36–38  
*Ethmostigmus rubripes platycephalus*—Schileyko, 2007: 82

*Scolopendra cribrifera* Gervais, 1847: 248  
*Ethmostigmus platycephalus cribrifer*—Attems, 1930: 182, fig. 230, synonymised by Schileyko & Stagl, 2004.  
*Ethmostigmus platycephalus cribrifer*—Attems, 1953: 138  
*Ethmostigmus platycephalus cribrifer*—Schileyko, 1995: 73  
*Ethmostigmus platycephalus cribrifer*—Schileyko, 1998: 269  
*Ethmostigmus platycephalus cribrifer*—Schileyko, 2001: 428

**Previous records.** QUANG BINH (Dong Hoi); DONG NAI (Vinh Cuu, Ma Da); SOC TRANG, Spratly Archipelago (Attems, 1953; Schileyko, 1995, 2007; Schileyko & Stagl, 2004).

**Remarks.** Also known from New Guinea, Solomon Isl., Oceanian Isl., Moluccas Isl., New Britain, Tahiti, Sri Lanka, Laos, Cambodia, Indonesia, Philippines - (Attems, 1930, 1953; Schileyko & Stagl, 2004, Schileyko, 2007).

### *Ethmostigmus rubripes spinosus* (Newport, 1845)

*Heterostoma spinosa* Newport, 1845: 414, tab XL, fig. 8  
*Ethmostigmus spinosus*—Kraepelin, 1903: 103  
*Ethmostigmus platycephalus spinosus*—Attems, 1930: 181, figs 227–229  
*Ethmostigmus rubripes spinosus*—Schileyko & Stagl, 2004: 122, fig. 39  
*Ethmostigmus rubripes spinosus*—Schileyko, 2007: 82

**Previous records.** DONG NAI (Ma Da) (Schileyko, 2007).

**Remarks.** Also known from Sri Lanka, Myanmar, Malaysia (Attems, 1930; Schileyko & Stagl, 2004; Schileyko, 2007).

## Genus *Otostigmus* Porat, 1876

### *Otostigmus aculeatus* Haase, 1887

*Otostigmus* (*O.*) *aculeatus* Haase, 1887: 71  
*Otostigmus* (*O.*) *aculeatus*—Attems, 1930: 148  
*Otostigmus* (*O.*) *aculeatus*—Attems, 1938: 337  
*Otostigmus* (*O.*) *aculeatus*—Attems, 1953: 138  
*Otostigmus* (*O.*) *aculeatus*—Schileyko, 1992: 7  
*Otostigmus* (*O.*) *aculeatus*—Schileyko, 1995: 83, fig. 11  
*Otostigmus* (*O.*) *aculeatus*—Schileyko, 1998: 268  
*Otostigmus* (*O.*) *aculeatus*—Schileyko, 2001: 430  
*Otostigmus* (*O.*) *aculeatus*—Lewis, 2001: 28, figs 53–58  
*Otostigmus* (*O.*) *aculeatus*—Chao & Chang, 2003: 2  
*Otostigmus* (*O.*) *aculeatus*—Schileyko, 2007: 76, fig. 2

*Otostigmus* (*O.*) *ziesel* Schileyko, 1992: 10, figs 2b–d, synonymised by Schileyko (2007)  
*Otostigmus* (*O.*) *ziesel*—Schileyko, 1995: 85, fig. 13  
*Otostigmus* (*O.*) *ziesel*—Schileyko, 1998: 268  
*Otostigmus* (*O.*) *ziesel*—Schileyko, 2001: 431

**Previous records.** QUANG NINH (Hon Gai, Ha Long; Dong Kho Island); HAI PHONG (Cat Ba NP); HA NOI (Ba Vi NP); HOA BINH (Mai Chau District); VINH PHUC (Tam Dao NP); NINH BINH (Cuc Phuong NP); QUANG NAM (Cu Lao Cham Island); KON TUM (Buon Luoi); GIA LAI (An Khe District); DONG NAI (Ma Da; Cat Tien NP); Tho Chu Island; Matau?? (Attems, 1938, 1953; Schileyko, 1992, 1995, 2007).

**Remarks.** Also known from Laos, Java, Hongkong, Taiwan, China. (Attems, 1930, 1938; Chao & Chang, 2003; Schileyko, 2007).

### *Otostigmus amballae* Chamberlin, 1913

*Otostigmus* (*O.*) *amballae* Chamberlin, 1913: 74  
*Otostigmus* (*O.*) *amballae*—Attems, 1930: 153  
*Otostigmus* (*O.*) *amballae*—Schileyko, 1992: 7  
*Otostigmus* (*O.*) *amballae*—Schileyko, 1995: 81, fig. 7  
*Otostigmus* (*O.*) *amballae*—Schileyko, 1998: 268  
*Otostigmus* (*O.*) *amballae*—Schileyko, 2001: 429  
*Otostigmus amballae*—Lewis, 2002: 1688, figs 1–7  
*Otostigmus* (*O.*) *amballae*—Schileyko, 2007: 78

**Previous records.** HOA BINH (Mai Chau District); QUANG NINH (Dong Kho Island) (Schileyko, 1992, 1995, 2007).

**Remarks.** Also known from India (Amballa), Nepal, Thailand (Attems, 1930; Schileyko, 2007).

### *Otostigmus astenus* (Kohlrausch, 1878)

*Branchiotrema astenon* Kohlrausch, 1878: 70, fig. 6  
*Otostigmus* (*O.*) *astenus*—Chamberlin, 1920: 13  
*Otostigmus* (*O.*) *astenus*—Attems, 1930: 143, fig. 174  
*Otostigmus astenus*—Attems, 1938: 337  
*Otostigmus astenus*—Attems, 1953: 138  
*Otostigmus astenus*—Schileyko, 1998: 268

*Otostigmus astenus*—Schileyko, 2001: 424  
*Otostigmus astenus*—Lewis, 2001: 21, fig. 37  
*Otostigmus astenus*—Chao & Chang, 2003: 2  
*Otostigmus astenus*—Schileyko, 2007: 78  
*Otostigmus astenus*—Lewis, 2007: 15  
*Otostigmus astenus*—Decker, 2013: 18

*Branchiotrema calcitrans* Kohlrausch, 1878: 71  
*Branchiotrema luzonicum* Kohlrausch, 1878: 71  
*Otostigmus barbouri* Chamberlin, 1914: 386, figs 1–3, synonymised by Lewis (2002)  
*Otostigmus barbouri*—Lewis, 2002: 1691, figs 12–17  
*Otostigmus glaber* Chamberlin, 1920: 12  
*Otostigmus glaber*—Lewis, 2002: 1695, figs 26–33

*Otostigmus moluccanus* Chamberlin, 1914: 388, figs 6–7  
*Otostigmus (O.) moluccanus*—Attems, 1930: 142  
*Otostigmus (O.) moluccanus*—Schileyko, 1992: 7  
*Otostigmus (O.) moluccanus*—Schileyko, 1995: 81, fig. 8  
*Otostigmus (O.) moluccanus*—Schileyko, 1998: 268  
*Otostigmus (O.) moluccanus*—Schileyko, 2001: 424, 429  
*Otostigmus moluccanus*—Lewis, 2002: 1695, figs 23–25

**Previous records.** VINH PHUC (Tam Dao NP) (Schileyko, 1992).

**Remarks.** Also known from India; Nepal; Cambodia; Indonesia; Taiwan, Moluccas (Ternate); Fiji Islands; Hawaiian Islands; Tonga Islands; Solomon Islands; Bismarck Archipelago; Indonesia (West Papua region); Australia (Chamberlin, 1920; Attems, 1930, 1938; Lewis, 2002; Chao & Chang, 2003; Schileyko, 2007).

#### ***Otostigmus loriae loriae* Silvestri, 1894**

*Otostigmus (O.) loriae* Silvestri, 1894: 627  
*Otostigmus loriae*—Chamberlin, 1920: 13  
*Otostigmus (O.) loriae*—Attems, 1930: 140  
*Otostigmus (O.) loriae*—Schileyko, 1992: 7  
*Otostigmus (O.) loriae loriae*—Schileyko, 1995: 81, fig. 9  
*Otostigmus (O.) loriae loriae*—Schileyko, 1998: 269  
*Otostigmus (O.) loriae loriae*—Schileyko, 2001: 430  
*Otostigmus (O.) loriae loriae*—Schileyko, 2007: 79

**Previous records.** HOA BINH (Mai Chau District); HAI PHONG (Cat Ba NP); HA TINH (Vu Quang NP); KHANH HOA (Nha Trang); GIA LAI (An Khe District, Buon Luoi); LAM DONG (Da Lat); DONG NAI (Cat Tien NP); TAY NINH (Lo Go – Xa Mat NP); BA RIA – VUNG TAU (Hang Bai Khang Island) (Schileyko, 1992, 1995, 2007).

**Remarks.** Also known from New Guinea (Moroca), Aru Islands, Cambodia, Malaysia, Indonesia, Philippines (Silvestri, 1894; Chamberlin, 1920; Attems, 1930; Schileyko, 2007).

#### ***Otostigmus loriae nordicus* Schileyko, 1995**

*Otostigmus (O.) loriae nordicus* Schileyko, 1995: 83, fig. 10  
*Otostigmus (O.) loriae nordicus*—Schileyko, 1998: 269  
*Otostigmus (O.) loriae nordicus*—Schileyko, 2001: 430  
*Otostigmus (O.) loriae nordicus*—Schileyko, 2007: 80

**Previous records.** HAI PHONG (Cat Ba NP); HA NOI (Ba Vi NP); DONG NAI (Ma Da) (Schileyko, 1995, 2007).

**Remarks.** Only known from Vietnam.



***Otostigmus multidens multidens* Haase, 1887**

*Otostigmus multidens multidens* Haase, 1887: 75  
*Otostigmus (O.) multidens*—Attems, 1930: 141, fig. 172  
*Otostigmus multidens*—Attems, 1938: 336  
*Otostigmus multidens multidens*—Lewis, 2001: 19, figs 34–36  
*Otostigmus multidens multidens*—Schileyko, 2007: 92

**Previous records.** DA NANG (Ba Na Mts.) (Attems, 1938).

**Remarks.** Also known from Indonesia, Papua New Guinea (Lewis, 2001; Schileyko, 2007).

***Otostigmus multidens carens* Attems, 1938**

*Otostigmus multidens carens* Attems, 1938: 336  
*Otostigmus multidens carens*—Schileyko, 2007: 92

**Previous records.** KIEN GIANG (Phu Quoc NP) (Attems, 1938).

**Remarks.** Also known from Thailand (Attems, 1938).

***Otostigmus politus politus* Karsch, 1881**

*Otostigmus politus* Karsch, 1881: 62  
*Otostigmus politus*—Chamberlin, 1920: 13  
*Otostigmus (O.) politus politus*—Attems, 1930: 150  
*Otostigmus politus*—Chamberlin & Wang, 1952: 180  
*Otostigmus (O.) politus*—Schileyko, 1992: 7  
*Otostigmus (O.) politus*—Schileyko, 1995: 80  
*Otostigmus (O.) politus*—Schileyko, 2001: 428  
*Otostigmus (O.) politus*—Lewis, 2001: 31, figs 59–68  
*Otostigmus (O.) politus*—Lewis, 2003: 195  
*Otostigmus (O.) politus politus*—Schileyko, 2007: 80, fig. 3

*Otostigmus completus* Chamberlin, 1920: 15  
*Otostigmus politus mandshurius* Verhoeff, 1942: 186, synonymised by Lewis (2001)

**Previous records.** HOA BINH (Mai Chau District) (Schileyko, 1992, 2007).

**Remarks.** Also known from China, Myanmar, Cambodia and Korea (Attems, 1030; Schileyko, 2007).

***Otostigmus reservatus* Schileyko, 1995**

*Otostigmus (O.) reservatus* Schileyko, 1995: 83, fig. 12  
*Otostigmus (O.) reservatus*—Schileyko, 1998: 268  
*Otostigmus (O.) reservatus*—Schileyko, 2001: 431  
*Otostigmus (O.) reservatus*—Schileyko, 2007: 80, fig. 4

**Previous records.** NINH BINH (Cuc Phuong NP); HAI PHONG (Cat Ba NP); QUANG NINH (Dong Kho Island) (Schileyko, 1995, 2007).

**Remarks.** Only known from Vietnam.

### ***Otostigmus scaber* Porat, 1876**

*Otostigmus (O.) scaber* Porat, 1876: 20  
*Otostigmus (O.) scaber*—Attems, 1930: 153  
*Otostigmus (O.) scaber*—Attems, 1938: 337  
*Otostigmus (O.) scaber*—Chamberlin & Wang, 1952: 180  
*Otostigmus (O.) scaber*—Attems, 1953: 145  
*Otostigmus (O.) scaber*—Schileyko, 1992: 7  
*Otostigmus (O.) scaber*—Schileyko, 1995: 268  
*Otostigmus (O.) scaber*—Schileyko, 2001: 429  
*Otostigmus (O.) scaber*—Lewis, 2001: 27, figs 48–52  
*Otostigmus (O.) scaber*—Chao & Chang, 2003: 2  
*Otostigmus (O.) scaber*—Schileyko, 2007: 81

**Previous records.** HAI PHONG (Cat Ba NP); QUANG BINH (Minh Hoa District); DA NANG (Ba Na NP); GIA LAI (An Khe District, Buon Luoi); LAM DONG (Da Lat, Langbian Mts.); DONG NAI (Ma Da) (Schileyko, 1992, 1995, 2007; Attems, 1938, 1953).

**Remarks.** Also known from Japan, Taiwan, China, Nicobar Isl., Laos, Thailand, Myanmar, Indonesia (Sumatra), Malaysia, Hawaii, Far East of Russia (Attems, 1930, 1953; Lewis, 2001; Chao & Chang, 2003; Schileyko, 2007).

### ***Otostigmus spinosus* Porat, 1876**

*Otostigmus (O.) spinosus* Porat, 1876: 22  
*Otostigmus (O.) spinosus*—Attems, 1930: 152, fig. 182  
*Otostigmus (O.) spinosus*—Schileyko, 2001: 433  
*Otostigmus (O.) spinosus*—Lewis, 2001: 37, figs 75–78  
*Otostigmus (O.) spinosus*—Schileyko, 2007: 81, fig. 5  
*Otostigmus (O.) spinosus*—Decker, 2013: 18

**Previous records.** KHANH HOA (Nha Trang); LAM DONG (Da Lat); DONG NAI (Ma Da; Cat Tien NP) (Schileyko, 2001, 2007).

**Remarks.** Also known from Indonesia, Malaysia, Myanmar and New Guinea (Attems, 1930; Schileyko, 2007).

### ***Otostigmus voprosus* Schileyko, 1992**

*Otostigmus voprosus* Schileyko, 1992: 10, fig. 2a  
*Otostigmus voprosus*—Schileyko, 1995: 86, fig. 14  
*Otostigmus voprosus*—Schileyko, 1998: 269  
*Otostigmus voprosus*—Schileyko, 2001: 432  
*Otostigmus voprosus*—Schileyko, 2007: 81

**Previous records.** LAI CHAU (Muong Cha); HOA BINH (Mai Chau); HA TINH (Vu Quang NP) (Schileyko, 1992, 1995, 2007).

**Remarks.** Only known from Vietnam.



**Genus *Rhysida* H.C. Wood, 1862**

***Rhysida longipes* (Newport, 1845)**

*Branchiostoma longipes* Newport, 1845: 411  
*Rhysida longipes*—Pocock, 1891b: 418  
*Rhysida longipes*—Chamberlin, 1920: 19  
*Rhysida longipes longipes*—Attems, 1930: 194, fig. 243  
*Rhysida longipes*—Attems, 1938: 337  
*Rhysida longipes*—Attems, 1953: 138  
*Rhysida longipes*—Schileyko, 1995: 74  
*Rhysida longipes*—Schileyko, 1998: 269  
*Rhysida longipes*—Shelley, 2002: 49, figs 69–70  
*Rhysida longipes longipes*—Lewis, 2007: 15  
*Rhysida longipes*—Schileyko, 2007: 82

*Otostigmus simplex* Chamberlin, 1913: 75, synonymised by Lewis (2002)  
*Otostigmus simplex*—Attems, 1930: 153  
*Otostigmus simplex*—Schileyko, 1998: 269  
*Otostigmus simplex*—Lewis, 2002: 1690, figs 8–11  
*Otostigmus simplex*—Schileyko, 2001: 432

**Previous records.** THUA THIEN HUE (Hai Van pass); DONG NAI (Ma Da); KIEN GIANG (Phu Quoc Island) (Attems, 1938; Schileyko, 2007).

**Remarks.** Also known in Japan, China (Quang Chau), Cambodia, Phillipines, India, Pakistan, USA, Venezuela) (Attems, 1930, 1938; Schileyko, 2007, Shelley, 2002).

***Rhysida marginata* Attems, 1953**

*Rhysida marginata* Attems, 1953: 148  
*Rhysida marginata*—Schileyko, 2007: 92

**Previous records.** CA MAU (Attems, 1953)

**Remarks.** Only known from Vietnam.

***Rhysida nuda* (Newport, 1845)**

*Branchiostoma nuda* Newport, 1845: 412  
*Rhysida nuda*—Chamberlin, 1920: 19  
*Rhysida nuda nuda*—Attems, 1930: 189, figs 236–237  
*Rhysida nuda*—Attems, 1938: 337  
*Rhysida nuda*—Attems, 1953: 138  
*Rhysida nuda*—Schileyko, 2007: 92

**Previous records.** QUANG NINH (Ha Long Archipelago); NGHE AN (Vinh) (Attems, 1938).

**Remarks.** Also known from Cambodia (Attems, 1938).

**Genus *Scolopendra* Linnaeus, 1758**

***Scolopendra calcarata* Porat, 1876**

*Scolopendra calcarata* Porat, 1876:10  
*Scolopendra calcarata*—Attems, 1930: 33  
*Scolopendra calcarata*—Schileyko, 1992: 7

*Scolopendra calcarata*—Schileyko, 1995: 77, fig. 3  
*Scolopendra calcarata*—Schileyko, 1998: 268  
*Scolopendra calcarata*—Schileyko, 2001: 434  
*Scolopendra calcarata*—Schileyko, 2007: 74  
*Scolopendra calcarata*—Lewis, 2010: 98

**Previous records.** HOA BINH (Mai Chau District); VINH PHUC (Tam Dao NP); HAI PHONG (Cat Ba NP); HA NOI (Ba Vi NP) (Schileyko, 1992, 1995, 2007).

**Remarks.** Also known from China and Laos (Attems, 1930; Schileyko, 2007; Lewis, 2010).

### ***Scolopendra gracillima sternostriata* Schileyko, 1995**

*Scolopocryptops gracillima*—Attems, 1938: 335, figs 308–309.  
*Scolopocryptops gracillima*—Attems, 1953: 145  
*Scolopocryptops gracillima*—Schileyko, 1992: 7  
*Scolopendra gracillima sternostriata* Schileyko, 1995: 77, fig. 4  
*Scolopendra gracillima sternostriata*—Schileyko, 1998: 268  
*Scolopendra gracillima sternostriata*—Schileyko, 2001: 435  
*Scolopendra gracillima sternostriata*—Schileyko, 2007: 74  
*Scolopendra gracillima sternostriata*—Lewis, 2010: 102

**Previous records.** HAI PHONG (Cat Ba NP); QUANG NAM (Cu lao cham Island); GIA LAI (50 km north of An Khe; Buon Luoi); TAY NGUYEN plateau; LAM DONG (Da Lat; Langbian Mts.) (Attems, 1938, 1953; Schileyko, 1995, 1997).

**Remarks.** Only known from Vietnam.

### ***Scolopendra mirabilis* (Porat, 1876)**

*Cormocephalus mirabilis* Porat, 1876: 18  
*Trachycormocephalus mirabilis*—Attems, 1930: 53, figs 64–66  
*Scolopendra (Trachycormocephalus) mirabilis*—Schileyko, 1992: 7  
*Scolopendra (T.) mirabilis*—Schileyko, 1995: 78, fig. 5  
*Scolopendra (T.) mirabilis*—Schileyko, 1998: 268  
*Scolopendra (T.) mirabilis*—Schileyko, 2001: 435  
*Scolopendra mirabilis*—Lewis, 2001: 8  
*Scolopendra (T.) mirabilis*—Schileyko, 2007: 74  
*Scolopendra mirabilis*—Lewis, 2010: 106, figs 5, 22, 29, 30

**Previous records.** HAI PHONG (Cat Ba NP) (Schileyko, 1992, 2007).

**Remarks.** Also known from Tanzania, Eritrea, Ethiopia, Somalia, Egypt, Sudan, Palestine, Mesopotamia, Syria, Iran, Iraq, Middle Asia, Caucasus, India, Afganistan (Attems, 1930; Schileyko, 2007; Lewis, 2010). It might have been introduced into Vietnam since only a single specimen has been found (Schileyko, 2007).

### ***Scolopendra morsitans* Linnaeus, 1758**

*Scolopendra morsitans* Linnaeus, 1758: 638  
*Scolopendra morsitans*—Chamberlin, 1920: 29  
*Scolopendra morsitans*—Attems, 1930: 23, figs 38–39  
*Scolopendra morsitans*—Attems, 1938: 334  
*Scolopendra morsitans*—Attems, 1953: 144  
*Scolopendra morsitans*—Schileyko, 1992: 7  
*Scolopendra morsitans*—Schileyko, 1995: 75, fig. 2  
*Scolopendra morsitans*—Schileyko, 1998: 268  
*Scolopendra morsitans*—Schileyko, 2001: 433  
*Scolopendra morsitans*—Lewis, 2001: 6, figs 1–4  
*Scolopendra morsitans*—Shelley, 2002: 39, figs 57–64

*Scolopendra morsitans*—Chao & Chang, 2003: 2  
*Scolopendra morsitans*—Schileyko, 2007: 75  
*Scolopendra morsitans*—Akkari *et al.*, 2008: 83, figs 8–13  
*Scolopendra morsitans*—Lewis, 2010: 107, figs 4, 33–34  
*Scolopendra morsitans*—Decker, 2013: 19

**Previous records.** HA GIANG; QUANG NINH (Bai Tu Long Archipelago); NGHE AN (Vinh); THUA THIEN HUE (Hai Van Pass); DAK LAK; KHANH HOA (Dong Trang; Cau Da; Ninh Hoa; Ba Ngoi); NINH THUAN (Phan Rang); LAM DONG (Da Lat); BA RIA – VUNG TAU (Binh Chau); TAY NINH (Tan Bien); CA MAU; Spratly Archipelago (Atoll Tizard) (Attems, 1938, 1953; Schileyko, 1992, 1995, 2007).

**Remarks.** Widespread over the world, all tropical and warm temperate regions (Shelley, 2002; Schileyko, 2007; Akkari *et al.*, 2008; Lewis, 2010). See Minelli *et al.* (2006 onward) for details of synonyms.

### *Scolopendra subspinipes subspinipes* Leach, 1815

*Scolopendra subspinipes* Leach, 1815: 383  
*Scolopendra subspinipes*—Chamberlin, 1920: 30  
*Scolopendra subspinipes*—Attems, 1930: 29  
*Scolopendra subspinipes*—Attems, 1938: 334  
*Scolopendra subspinipes*—Attems, 1953: 145  
*Scolopendra subspinipes*—Schileyko, 1992: 7  
*Scolopendra subspinipes*—Schileyko, 1995: 73  
*Scolopendra subspinipes*—Schileyko, 1998: 268  
*Scolopendra subspinipes*—Shelley, 2000: 42  
*Scolopendra subspinipes*—Shelley, 2002: 38, figs 50–56  
*Scolopendra subspinipes subspinipes*—Schileyko, 2001: 434  
*Scolopendra subspinipes subspinipes*—Chao & Chang, 2003: 2  
*Scolopendra subspinipes subspinipes*—Lewis, 2004: 33  
*Scolopendra subspinipes subspinipes*—Schileyko, 2007: 75  
*Scolopendra subspinipes subspinipes*—Lewis, 2010: 112, fig. 21  
*Scolopendra subspinipes subspinipes*—Decker, 2013: 19

*Scolopendra subspinipes mutilans*—Attems, 1938: 334  
*Scolopendra subspinipes mutilans*—Attems, 1953: 138  
*Scolopendra subspinipes mutilans*—Schileyko, 1998: 268  
*Scolopendra subspinipes multidentis*—Schileyko, 1998: 268

*Otostigmus puncticeps*—Attems, 1953: 146, synonymised by Lewis (2004)  
*Otostigmus politoides*—Attems, 1953: 147, synonymised by Lewis (2004)

**Previous records.** LAO CAI (Sa Pa); VINH PHUC (Tam Dao NP); HA TAY (currently known as extension region of HA NOI); HAI PHONG (Cat Ba NP); QUANG BINH (Minh Hoa; Dong Hoi); THUA THIEN HUE (Hue city); DA NANG (Ba Na Mts); DAK LAK (30km SSW of Ban Me Thuot); KHANH HOA (Hon Ba Mts); DONG NAI (Cat Tien NP) (Attems, 1938, 1953; Schileyko, 1992, 1995, 2007).

**Remarks.** The species is distributed in all tropical and subtropical parts of Eurasia, but is absent from the Mediterranean region. It is also recorded from some parts of Africa, Phillipines, Madagascar, Seychelles, Comoros, Australia, New Zealand, USA, Caribbean region and South America (Chao & Chang, 2003; Schileyko, 2007, Shelley, 2002). See Minelli *et al.* (2006 onward) for more details of synonyms.

### *Scolopendra subspinipes cingulatoides* Attems, 1938

*Scolopendra subspinipes cingulatoides*—Attems, 1938: 334, fig. 307  
*Scolopendra subspinipes cingulatoides*—Attems, 1953: 138  
*Scolopendra subspinipes cingulatoides*—Schileyko, 1998: 268  
*Scolopendra subspinipes cingulatoides*—Schileyko, 2001: 434

*Scolopendra subspinipes cingulatoides*—Schileyko, 2007: 76  
*Scolopendra subspinipes cingulatoides*—Lewis, 2010: 112, fig. 24

**Previous records.** HA GIANG; HANOI (Ba Vi NP); THAI NGUYEN (Phu Luong; Quang Chu); HA TINH (Vu Quang NP) (Attems, 1938; Schileyko, 2007).

**Remarks.** Also known from Laos (Attems, 1938; Schileyko, 2007).

### ***Scolopendra subspinipes dehaani* Brandt, 1840**

*Scolopendra subspinipes dehaani* Brandt, 1840: 152  
*Scolopendra subspinipes dehaani*—Attems, 1930: 31  
*Scolopendra subspinipes dehaani*—Attems, 1938: 334  
*Scolopendra subspinipes dehaani*—Attems, 1953: 138  
*Scolopendra subspinipes dehaani*—Schileyko, 1998: 268  
*Scolopendra subspinipes dehaani*—Chao & Chang, 2003: 2  
*Scolopendra subspinipes dehaani*—Schileyko, 2007: 75  
*Scolopendra subspinipes dehaani*—Lewis, 2010: 113

**Previous records.** QUANG BINH (Hon Gai; Ha Long); NGHE AN (Vinh); DAK LAK (Ban Me Thuot); KON TUM; BA RIA—VUNG TAU (Con Dao Isl) (Attems, 1938).

**Remarks.** Also known from Japan (Okinawa Isl.), China, Laos, Cambodia, Indonesia, Thailand, Myanmar, India, Bangladesh (Attems, 1930, 1938; Schileyko, 2007).

## **FAMILY SCOLOPOCRYPTOPIDAE POCOCK, 1896**

### **Genus *Dinocryptops* Crabill, 1953**

#### ***Dinocryptops brolemanni esulcata* (Attems, 1938)**

*Scoloporyptops brolemanni esulcata* Attems, 1938: 338  
*Scoloporyptops brolemanni esulcata*—Attems, 1953: 146  
*Dinocryptops brolemanni esulcata*—Crabill, 1953: 96  
*Dinocryptops brolemanni esulcata*—Chagas Junior., 2003: 2  
*Dinocryptops brolemanni esulcata*—Schileyko, 2007: 92

**Previous records.** LAM DONG (Langbian Mts.) (Attems, 1938, 1953).

**Remarks.** Only known from Vietnam.

### **Genus *Scolopocryptops* Newport, 1844**

#### ***Scolopocryptops melanostomus* Newport, 1885**

*Otocryptops melanostomus* Newport, 1885: 406  
*Otocryptops melanostomus*—Chamberlin, 1920: 10  
*Otocryptops melanostomus*—Attems, 1930: 263, figs 349–351  
*Otocryptops melanostomus*—Attems, 1953: 146  
*Scolopocryptops melanostomus*—Schileyko, 2007: 92  
*Scolopocryptops melanostomus*—Decker, 2013: 17

**Previous records.** LAM DONG (Langbian Mts.) (Attems, 1953).

**Remarks.** Also known from Indonesia, Philippines, Taiwan, Papua New Guinea, Fiji Isl., New Guinea, Central to South America (Chamberlin, 1920; Attems, 1930; Schileyko, 2007)

### ***Scoloporyptops rubiginosus* C.L.Koch, 1878**

*Scolopocryptops rubiginosus* C.L. Koch, 1878: 792  
*Otocryptops rubiginosa*—Attems, 1930: 259, figs 342–344  
*Otocryptops rubiginosus*—Chamberlin & Wang, 1952: 179  
*Otocryptops rubiginosa*—Attems, 1953: 138.  
*Scolopocryptops rubiginosus*—Schileyko, 1995: 73  
*Scolopocryptops rubiginosus*—Schileyko, 1998: 268  
*Scolopocryptops rubiginosus*—Schileyko, 2001:427  
*Scolopocryptops rubiginosus*—Shelley, 2002: 66, figs 96–107  
*Scolopocryptops rubiginosus*—Chao & Chang, 2003: 2  
*Scolopocryptops rubiginosus*—Schileyko, 2007: 73

**Previous records.** HA TINH (Vu Quang NP) (Schileyko, 2007).

**Remarks.** Also known from China, Taiwan, Korea, Japan and North America (Minnesota, Wisconsin to Texas) (Schileyko, 2007; Shelley, 2002; Chao & Chang, 2003).

### ***Scolopocryptops spinicaudus* Wood, 1862**

*Scolopocryptops spinicauda* Wood, 1862: 39  
*Scolopocryptops spinicaudus*—Shelley, 2002: 72, figs 114–139  
*Scolopocryptops spinicaudus*—Schileyko, 2007: 73  
  
*Scolopocryptops sexspinosus spinicaudus*—Bollman, 1893: 178  
*Otocryptops sexspinosus*—Chamberlin & Wang, 1952: 179  
*Otocryptops sexspinosus*—Schileyko, 1992: 8  
*Scolopocryptops sexspinosus* [in part]—Attems, 1930: 260  
*Scolopocryptops sexspinosus*—Schileyko, 1995: 75, fig. 1  
*Scolopocryptops sexspinosus*—Schileyko, 2001: 427

**Previous records.** LAO CAI (Sa Pa; Hoang Lien NP); VINH PHUC (Tam Dao NP); GIA LAI (An Khe, Buon Luoi) (Schileyko, 1992, 1995, 2007).

**Remarks.** Also known from Canada, USA, Mexico, Korea, Japan, China (Attems, 1930; Schileyko, 2007; Shelley, 2002).

## **ORDER LITHOBIOMORPHA**

### **FAMILY HENICOPIDAE POCOCK, 1901**

#### **Genus *Anopsobiella* Attems, 1938**

##### ***Anopsobiella dawydoffi* Attems, 1938**

*Anopsobius (Anopsobiella) dawydoffi* Attems, 1938: 351, figs 316–320.  
*Anopsobiella dawydoffi*—Hollington & Edgecombe, 2004: 22  
*Anopsobiella dawydoffi*—Prunescu & Prunescu, 2004: 59  
*Anopsobiella dawydoffi*—Stagl & Zapparoli, 2006: 11  
*Anopsobiella dawydoffi*—Bonato *et al.*, 2011: 377

**Previous records.** PHU YEN (Cap Varella); KHANH HOA (Nha Trang, Cau Da) (Attems, 1938)

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

## FAMILY LITHOBIIDAE POCOCK, 1895

### Genus *Australobius* Chamberlin, 1920

#### *Australobius feae percalcaratus* (Silvestri, 1917)

*Lithobius (Australobius) feae percalcaratus* Silvestri, 1917: 309, fig. 11

*Lithobius (A.) feae percalcaratus*—Attems, 1938: 347

*Lithobius feae*—Eason, 1973: 68, figs 42–44

**Previous records.** QUANG NINH (Hon Gai); DA NANG (Ba Na NP); LAM DONG (Da Lat; Langbian Mts.; D`ran; Di Linh) (Attems, 1938)

**Remarks.** Also known from India (Silvestri, 1917). The species *Australobius feae* (= *Lithobius feae*) was also recorded from Burma (Eason, 1973).

#### *Australobius javanicus* (Pocock, 1894)

*Lithobius (Archilithobius) javanicus* Pocock, 1894: 311, plate 19, fig. 3

*Archilithobius javanicus*—Attems, 1907: 89

*Lithobius (Tamullinus) javanicus*—Attems, 1938: 347

*Lithobius javanicus*—Eason, 1973: 71, figs 47–48

**Previous records.** LAM DONG (Da Lat, Langbian Mts.); KHANH HOA (Nha Trang) (Attems, 1938).

**Remarks.** Also known from Indonesia (Java) (Pocock, 1894; Attems, 1907; Eason, 1973).

#### *Australobius maroneus* (Attems, 1953)

*Lithobius (Australobius) maroneus* Attems, 1953: 152, figs 20–21

*Lithobius (A.) maroneus*—Eason, 1978: 22

*Australobius maroneus*—Stagl & Zapparoli, 2006: 21

**Previous records.** LAM DONG (Langbian Mts.); KON TUM (Kon Tum) (Attems, 1953).

**Remarks.** Also known from Laos (Attems, 1953). Its taxonomic status has never been revised since its original description.

#### *Australobius semperi* (Haase, 1887)

*Lithobius (Australobius) semperi* Haase, 1887: 34

*Lithobius (A.) semperi*—Attems, 1953: 152, figs 22–24

*Lithobius (A.) semperi*—Eason, 1978: 22

**Previous records.** LAO CAI (Fansifan Mts.); KON TUM (Kon Tum); DAK LAK (Ban Me Thuat); LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953).

**Remarks.** Also known from Laos, Philippines (Haase, 1887; Attems, 1953).

### Genus *Bothropolys* Wood, 1862

*Bothropolys tricholophus* Attems, 1938

*Bothropolys tricholophus* Attems, 1938: 349, figs 314–315

*Bothropolys tricholophus*—Stagl & Zapparoli, 2006: 38



**Previous records.** LAM DONG (Da Lat, Langbian Mts.; Di Linh; D'ran) (Attems, 1938).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

### Genus *Lithobius* Leach, 1814

#### *Lithobius (Alokobius) orientalis* Attems, 1953

*Lithobius (Alokobius) orientalis* Attems, 1953: 152

*Lithobius (Alokobius) orientalis*—Stagl & Zapparoli, 2006: 26

**Previous records.** LAO CAI (Sa Pa, Fansipan Mts.) (Attems, 1953).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

#### *Lithobius (Ezembius) erratus dawydoffi* (Attems, 1938)

*Pokabius erratus dawydoffi* Attems, 1938: 349

*Lithobius erratus dawydoffi*—Eason, 1981: 337

*Lithobius (Ezembius) dawydoffi*—Stagl & Zapparoli, 2006: 11

**Previous records.** QUANG NINH (Mong Cai) (Attems, 1938).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

#### *Lithobius (Lithobius) egregius* Attems, 1938

*Lithobius (Alokobius) egregius* Attems, 1938: 348

*Lithobius (Lithobius) egregius*—Stagl & Zapparoli, 2006: 13

**Previous records.** DA NANG (Ba Na NP) (Attems, 1938).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

#### *Lithobius (Lithobius) modicus* Attems, 1938

*Lithobius (Alokobius) modicus* Attems, 1938: 347

*Lithobius (Lithobius) modicus*—Stagl & Zapparoli, 2006: 23

**Previous records.** LAM DONG (Da Lat) (Attems, 1938)

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

#### *Lithobius (Monotarsobius) rhytus* Attems, 1934

*Lithobius (Monotarsobius) rhytus* Attems, 1934: 315

*Lithobius (Monotarsobius) rhytus*—Attems, 1953: 150

*Lithobius (Monotarsobius) rhytus*—Wang & Mauriès, 1996: 90

*Lithobius (M.) rhyusus*—Stagl & Zapparoli, 2006: 32

**Previous records.** LAO CAI (Fansifan Mts.) (Attems, 1953).

**Remarks.** Also known from China, Taiwan (Attems, 1953, Wang & Mauriès, 1996).

***Lithobius (Monotarsobius) fuscus* Attems, 1953**

*Lithobius (Monotarsobius) fuscus* Attems, 1953: 150, figs 18–19

*Lithobius (M.) fuscus*—Stagl & Zapparoli, 2006: 15

**Previous records.** LAO CAI (Fansifan Mts.); SOC TRANG (Attems, 1953).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

***Lithobius (Monotarsobius) honestus* Attems, 1938**

*Lithobius (Monotarsobius) honestus* Attems, 1938: 345

*Lithobius (M.) honestus*—Attems, 1953: 150

*Lithobius (M.) honestus*—Stagl & Zapparoli, 2006: 16

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1938).

**Remarks.** Also known from Laos (Attems, 1953). Its taxonomic status has never been revised since its original description.

***Lithobius (Monotarsobius) pachymerus* Attems, 1938**

*Lithobius (Monotarsobius) pachymerus* Attems, 1938: 346, figs 311–312

*Lithobius (M.) pachymerus*—Attems, 1953: 151

*Lithobius (M.) pachymerus*—Stagl & Zapparoli, 2006: 26

**Previous records.** KHANH HOA (Nha Trang, Cau Da); LAM DONG (Da Lat) (Attems, 1938)

**Remarks.** Also known from Laos (Attems, 1953). Its taxonomic status has never been revised since its original description.

***Lithobius (Monotarsobius) tricalcaratus* (Attems, 1909)**

*Monotarsobius tricalcaratus* Attems, 1909: 20, taf. 1, fig. 5

*Lithobius (Monotarsobius) tricalcaratus*—Attems, 1953: 151

*Lithobius (M.) tricalcaratus*—Kevan, 1983: 2949

*Monotarsobius tricalcaratus*—Stagl & Zapparoli, 2006: 38

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953).

**Remarks.** Also known from Alaska (US) (Attems, 1909; Kevan, 1983). The records from Vietnam are doubtful and need to be revised carefully.

## ORDER GEOPHILOMORPHA

### FAMILY BALLOPHILIDAE COOK, 1896

#### Genus *Ballophilus* Cook, 1896

##### *Ballophilus flavescens* Attems, 1938

*Ballophilus flavescens* Attems, 1938: 324, fig. 282.  
*Ballophilus flavescens*—Ilie *et al.*, 2009: 28

**Previous records.** PHU YEN (Cap Varella); DONG NAI (Trang Bom) (Attems, 1938).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

##### *Ballophilus granulatus granulatus* Attems, 1938

*Ballophilus granulatus granulatus* Attems, 1938: 326, figs 285–286  
*Ballophilus granulatus*—Attems, 1953: 140  
*Ballophilus granulatus*—Ilie *et al.*, 2009: 32

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953); DA NANG (Ba Na NP); KHANH HOA (Nha Trang, Ba Ngoi) (Attems, 1938).

**Remarks.** Also known from Laos (Attems, 1953). Its taxonomic status has never been revised since its original description.

##### *Ballophilus granulatus holotrichus* Attems, 1938

*Ballophilus granulatus holotrichus* Attems, 1938: 327  
*Ballophilus granulatus holotrichus*—Ilie *et al.*, 2009: 34

**Previous records.** DA NANG (Ba Na NP); KHANH HOA (Nha Trang, Ba Ngoi, Cau Da); PHU YEN (Cap Varella); LAM DONG (Da Lat) (Attems, 1938; Ilie *et al.*, 2009).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

##### *Ballophilus pallidus* Attems, 1938

*Ballophilus pallidus* Attems, 1938: 323, figs 279–281  
*Ballophilus pallidus*—Attems, 1953: 140  
*Ballophilus pallidus*—Ilie *et al.*, 2009: 51

**Previous records.** PHU YEN (Cap Varella); TAY NINH; SOC TRANG; CA MAU (Attems, 1938, 1953).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

***Ballophilus polypus* Attems, 1907**

*Ballophilus polypus* Attems, 1907: 93  
*Ballophilus polypus*—Attems, 1929: 102  
*Ballophilus polypus*—Attems, 1938: 325, figs 283–284.

**Previous records.** KHANH HOA (Nha Trang, Cau Da) (Attems, 1938).

**Remarks.** Also known from Indonesia (Attems, 1907, 1929).

***Ballophilus pygamaeus* Attems, 1953**

*Ballophilus pygamaeus* Attems, 1953: 140, fig. 4  
*Ballophilus pygamaeus*—Ilie *et al.*, 2009: 57

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

**FAMILI MECISTOCEPHALIDAE BOLLMAN, 1893**

**Genus *Mecistocephalus* Newport, 1843**

***Mecistocephalus conspicuus* Attems, 1938**

*Mecistocephalus conspicuus* Attems, 1938: 327, figs 287–292  
*Mecistocephalus conspicuus*—Attems, 1953: 141  
*Mecistocephalus conspicuus*—Ilie *et al.*, 2009: 21

**Previous records.** KIEN GIANG (Phu Quoc NP) (Attems, 1938).

**Remarks.** Also known from Laos (Attems, 1938, 1953). Its taxonomic status has never been revised since its original description.

***Mecistocephalus flavus* Attems, 1938**

*Mecistocephalus mikado* var. *flavus* Attems, 1938: 330, fig. 293.  
*Mecistocephalus mikado flavus*—Attems, 1953: 141  
*Mecistocephalus flavus*—Ilie *et al.*, 2009: 29

**Previous records.** DA NANG (Ba Na NP; Hai Van pass); KHANH HOA (Nha Trang, Ba Ngoi; Suoi Dau); DAK LAK (Ban Me Thuat); LAM DONG (Da Lat, Langbian Mts.); TAY NINH; BA RIA – VUNG TAU (Con Dao NP); KIEN GIANG (Phu Quoc NP) (Attems, 1938)

**Remarks.** Also known from Cambodia and Laos (Attems, 1938, 1953). Its taxonomic status has never been revised since its original description.

***Mecistocephalus insularis* (Lucas, 1863)**

*Geophilus insularis* Lucas, 1863: 93, plate 21, fig. 1  
*Mecistocephalus insularis*—Chamberlin, 1920: 62  
*Mecistocephalus insularis*—Attems, 1953: 141  
*Mecistocephalus insularis*—Lewis, 1996: 149  
*Mecistocephalus insularis*—Wang & Mauriès, 1996: 89

*Mecistocephalus insularis*—Uliana *et al.*, 2007: 71  
*Mecistocephalus insularis*—Decker, 2013: 20

**Previous records.** THUA THIEN HUE (Hue); DAK LAK (Ban Me Thuat); LAM DONG (Da Lat, Langbian Mts.); KON TUM; Spratly Archipelago (Atoll Tizard) (Attems, 1953).

**Remarks.** Also known from Laos, Cambodia, Indonesia (Seram Isl.), Singapore, China, Seychelles (Chamberlin, 1920; Attems, 1953; Wang & Mauriès, 1996; Decker, 2013).

### ***Mecistocephalus mikado* Attems, 1928**

*Mecistocephalus mikado* Attems, 1928: 117, figs 4–7  
*Mecistocephalus mikado*—Attems, 1938: 329  
*Mecistocephalus mikado*—Takakuwa, 1940: 63, fig. 57  
*Mecistocephalus mikado*—Chamberlin & Wang, 1952: 178  
*Mecistocephalus mikado*—Wang & Mauriès, 1996: 88  
*Mecistocephalus mikado*—Uliana *et al.*, 2007: 39, fig. 49  
*Mecistocephalus mikado*—Ilie *et al.*, 2009: 45

**Previous records.** DA NANG (Ba Na NP; Hai Van pass); PHU YEN (Deo Ca pass); KHANH HOA (Nha Trang, Cau Da); KON TUM; LAM DONG (Da Lat, Langbian Mts.; D'ran; Di Linh) (Attems, 1938).

**Remarks.** Also known from Cambodia, Taiwan, Japan (Attems, 1928, 1938; Takakuwa, 1940; Wang & Mauriès, 1996; Uliana *et al.*, 2007).

### ***Mecistocephalus rubriceps* Wood, 1862**

*Mecistocephalus rubriceps* Wood, 1862: 42  
*Mecistocephalus rubriceps*—Takakuwa, 1940: 67  
*Mecistocephalus rubriceps*—Attems, 1953: 141  
*Mecistocephalus rubriceps*—Wang & Mauriès, 1996: 88  
*Mecistocephalus rubriceps*—Uliana *et al.*, 2007: 35, figs 46–48

**Previous records.** LAO CAI (Sa Pa); KON TUM (Attems, 1953).

**Remarks.** Also known from Laos, Taiwan, southern Japan, Philippines (Attems, 1953; Wang & Mauriès, 1996; Uliana *et al.*, 2007).

### **Genus *Tygarrup* Chamberlin, 1914**

#### ***Tygarrup javanicus* Attems, 1929**

*Tygarrup javanicus* Attems, 1929: 152  
*Tygarrup javanicus*—Attems, 1938: 330, figs 294–298  
*Tygarrup javanicus*—Attems, 1953: 143  
*Tygarrup javanicus*—Titova, 1983: 151, figs 14–17  
*Tygarrup javanicus*—Wang & Mauriès, 1996: 89  
*Tygarrup javanicus*—Bonato *et al.*, 2004: 14  
*Tygarrup javanicus*—Bonato & Minelli, 2010: 11, fig. 1  
*Tygarrup javanicus*—Ilie *et al.*, 2009: 38

**Previous records.** DA NANG (Ba Na NP); LAM DONG (Da Lat, Langbian Mts.) (Attems, 1938).

**Remarks.** Also known from Seychelles, China, Cambodia, Indonesia, Hawaii Isl. (Attems, 1929, 1953; Titova, 1983; Bonato *et al.*, 2004; Bonato & Minelli, 2010).

***Tygarrup diversidens* (Silvestri, 1919)**

*Lamnonyx diversidens* Silvestri, 1919: 76, fig. 20  
*Mecistocephalus diversidens*—Attems, 1953: 141  
*Tygarrup diversidens*—Bonato & Minelli, 2004: 49

**Previous records.** LAO CAI (Sa Pa) (Attems, 1953)

**Remarks.** Also known from Pakistan, Nepal, however, the record from Vietnam is most probably based on a misidentification (Bonato & Minelli, 2004).

**FAMILY GEOPHILIDAE LEACH, 1815**

**Genus *Tuoba* Chamberlin, 1920**

***Tuoba annamiticus* (Attems, 1938) comb. nov.**

*Nesogeophilus annamiticus* Attems, 1938: 332, figs 301–305.  
*Nesogeophilus annamiticus*—Jones, 1998: 345  
*Nesogeophilus annamiticus*—Ilie *et al.*, 2009: 12

**Previous records.** KHANH HOA (Nha Trang, Cau Da) (Attems, 1938).

**Remarks.** Only known from Vietnam. Crabill (1968) synonymised the genus *Nesogeophilus* with *Tuoba*, but he did not mention the species *Nesogeophilus annamiticus*. The species is here reallocated to the genus *Tuoba*.

**FAMILY GONIBREGMATIDAE COOK, 1896**

**Genus *Himantosoma* Pocock, 1891**

***Himantosoma bidivisum* Silvestri, 1919**

*Himantosoma typicum* var. *bidivisa* Silvestri, 1919: 101, fig. 37  
*Himantosoma porosum* var. *bidivisum*—Attems, 1929: 339  
*Himantosoma porosum* var. *bidivisum*—Attems, 1938: 322

**Previous records.** PHU YEN (Deo Ca Pass); KHANH HOA (Nha Trang, Cau Da; Suoi Dau) (Attems, 1938).

**Remarks.** Also known from India (Silvestri, 1919). The species was originally described as varieties *H. typicum* var. *bidivisa* (Silvestri, 1919), but erroneously listed as *H. porosum bidivisum* by Attems (1938). The records from Vietnam are doubtful, and need to be carefully revised.

**FAMILY LINOTAENIIDAE**

**Genus *Strigamia* Gray, 1843**

***Strigamia hirsutipes* (Attems 1927)**

*Scolioplanes hirsutipes* Attems 1927: 293, figs 1–3  
*Scolioplanes hirsutipes*—Attems, 1938: 331, figs 299–300.  
*Scolioplanes hirsutipes*—Attems, 1953: 144  
*Strigamia hirsutipes*—Takakuwa, 1940: 127  
*Strigamia hirsutipes*—Shinohara, 1981: 43  
*Strigamia hirsutipes*—Ilie *et al.*, 2009: 34  
*Strigamia hirsutipes*—Bonato *et al.*, 2012: 15



**Previous records.** DA NANG (Ba Na NP); LAM DONG (Da Lat, Langbian Mts.; Di Linh) (Attems, 1938).

**Remarks.** Also known from Laos, Japan (Attems, 1927, 1953; Shinohara, 1981). The records from Vietnam and Laos are doubtful, and need to be carefully revised (Bonato *et al.*, 2012).

## FAMILY ORYIDAE COOK, 1896

### Genus *Orphnaeus* Mainert, 1870

#### *Orphnaeus brevilabiatus* (Newport, 1845)

*Geophilus brevilabiatus* Newport, 1845: 436

*Orphnaeus brevilabiatus*—Pocock, 1894: 317

*Orphnaeus brevilabiatus*—Chamberlin, 1920: 39

*Orphnaeus brevilabiatus*—Attems, 1938: 327

*Orphnaeus brevilabiatus*—Attems, 1947: 93 (in identification key)

*Orphnaeus brevilabiatus*—Chamberlin & Wang, 1952: 177

*Orphnaeus brevilabiatus*—Attems, 1953: 141

*Orphnaeus brevilabiatus*—Wang & Mauriès, 1996: 88

*Orphnaeus brevilabiatus*—Bonato *et al.*, 2004: 22

*Orphnaeus brevilabiatus*—Decker, 2013: 22

**Previous records.** HA GIANG; THUA THIEN HUE (Hai Van pass); KHANH HOA (Ninh Hoa); LAM DONG (Da Lat, Langbian Mts.; D'ran) (Attems, 1938)

**Remarks.** The species is widely distributed in tropical regions (Angola, Zimbabwe, Cameroon, Cambodia, Taiwan, Hawaiian Is., Japan) (Attems, 1953, Bonato *et al.*, 2004; Wang & Mauriès, 1996; Decker, 2013).

## FAMILY SCHENDYLIDAE COOK, 1896

### Genus *Haploschendyla* Verhoeff, 1900

#### *Haploschendyla barbarica* (Meinert, 1870)

*Geophilus barbarica* Meinert, 1870: 71

*Orya barbarica* (Mein.)—Attems, 1953: 140

*Haploschendyla barbarica*—Zapparoli, 2002: 88

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953)

**Remarks.** The species has been previously only known from southeastern Europe and northern Africa (Zapparoli, 2002). The record from Vietnam is doubtful, and needs to be revised carefully.

### Genus *Leptoschendyla* Attems, 1953

#### *Leptoschendyla paucipes* Attems, 1953

*Leptoschendyla paucipes* Attems, 1953: 139, figs 1–3.

*Leptoschendyla paucipes*—Ilie *et al.*, 2009: 52

**Previous records.** LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953).

**Remarks.** Only known from Vietnam. Its taxonomic status has never been revised since its original description.

## Genus *Megalacrus* Attems, 1953

The genus remains of uncertain validity (Bonato *et al.*, 2003: 546)

### *Megalacrus obscuratus* Attems, 1953

*Megalacrus obscuratus* Attems, 1953: 142, figs 5–6

*Megalacrus obscuratus*—Ilie *et al.*, 2009: 49

**Previous records.** LAO CAI (Sa Pa); LAM DONG (Da Lat, Langbian Mts.) (Attems, 1953).

**Remarks.** Only known from Vietnam. The taxonomic status is uncertain, and needs to be confirmed (Bonato *et al.*, 2003)

## ORDER SCUTIGEROMORPHA

### FAMILY SCUTIGERIDAE LEACH, 1814

#### Genus *Thereuopoda* Verhoeff, 1904

##### *Thereuopoda longicornis* (Fabricius, 1793)

*Scolopendra longicornis* Fabricius, 1793: 390

*Thereuopoda longicornis*—Attems, 1938: 353

*Thereuopoda longicornis*—Decker, 2013: 16

*Scutigera feae* Pocock, 1891b: 404

*Thereuonema feae*—Attems, 1938: 352

**Previous records.** HA GIANG; QUANG NINH (Hon Gai); DA NANG (Ba Na NP); KHANH HOA (Nha Trang, Cau Da, Cua Be); DAK LAK (Ban Me Thuat); LAM DONG (Di Linh); BA RIA – VUNG TAU (Con Dao NP) (Attems, 1938).

**Remarks.** Also known from Mauritius, Taiwan, Myanmar, Thailand, Laos, Cambodia, Singapore, Philippines, Papua New Guinea (Attems, 1938; Decker, 2013).

## Discussion

A total of 71 species and subspecies of 26 genera, 13 families in four orders, Scolopendromorpha, Geophiolomorpha, Lithobiomorpha and Scutigermorpha, has been recorded from Vietnam. Four genera, *Tonkinodentus*, *Alluropus*, *Anopsobiella* and *Megalacrus*, are monotypic. Twenty-two species and subspecies have been only known from Vietnam. The taxonomic status of many species needs to be confirmed because they have never been revised since their original description, e.g. *Ballophilus flavescens*, *B. pallidus*, *B. polypus*, *B. pygamaeus*, *Tuoba annamiticus*.

Distribution data for Vietnamese centipedes is insufficient and scattered. Almost all species have been recorded only in one or two localities, and there are large gaps in their distribution. For example, *Lithobius fuscus* was found in northernmost (Lao Cai province) and southernmost (Soc Trang province) Vietnam.

Vietnam is at the center of the Indo-Malayan Zoogeographical region, and is a part of Southeast Asia (Sterling *et al.*, 2006). Thus, the centipede fauna of Vietnam is not isolated from other adjacent areas, such as Laos, Cambodia, Thailand and southern China. It shares with these countries many scolopendromorphs (e.g. *Rhysida longipes*, *Ostostigmus scaber*, *O. astenus*, *Scolopendra morsitans*, *S. subspinipes*, *S. mirabilis*), some lithobiomorphs (e.g. *Australobius mroneus*, *A. semperi*, *Lithobius rhysus*, *L. honestus*, *L. pachymerus*) and

geophilomorphs (e.g. *Mecistocephalus conspicuus*, *M. flavus*, *M. insularis*, *M. rubriceps*). Of 71 species, 22 are currently recorded only in Vietnam.

Certainly, our knowledge of Vietnamese centipedes is still far from complete. We hope the present work will provide fundamental data for further studies on centipedes in Vietnam.

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