

## Annotated catalog of Vietnamese Trichoptera (Insecta)

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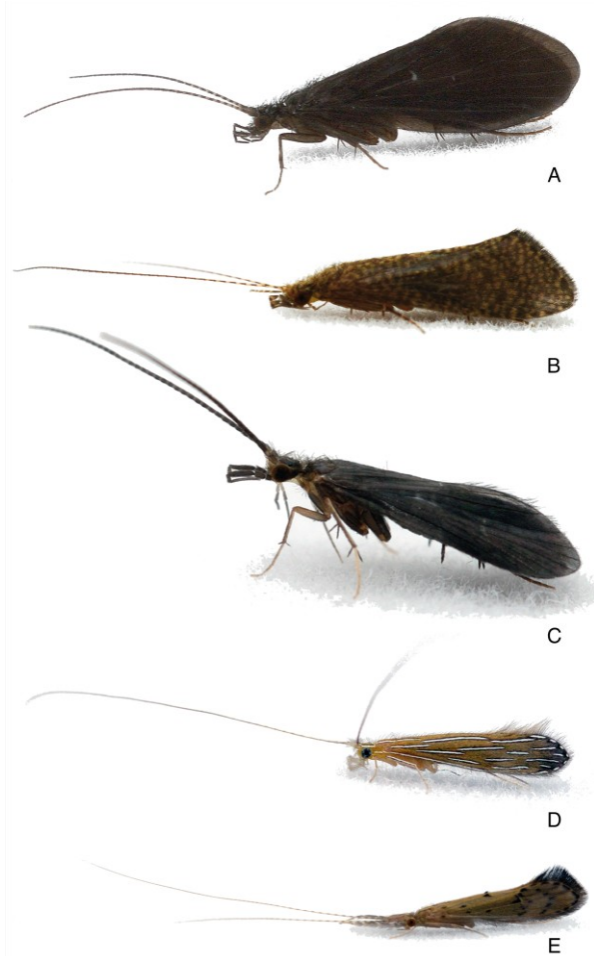
**Abstract.** All 835 valid species of caddisflies recorded from Vietnam by the end of 2021 are cataloged. The catalog is annotated with information about reference to original description where the species was described, type locality, depository institution of the type material, habitat where the species has been collected, and distribution. The distribution section covers all countries as well as Vietnamese provinces from where species has been recorded. The catalog is based on records of about 7,600 individuals recorded in literature, of which 69 % of the individuals are males and 31 % are females. With 139 species recorded, the most species rich family in Vietnam is the Hydropsychidae, followed by the Philopotamidae, Leptoceridae and the Hydroptilidae. These four families comprise 50% of the species diversity of caddisflies in Vietnam. By number of species, the smallest families are the Phryganopsychidae and Brachycentridae (two species each) and the Sericostomatidae, Phryganeidae and Limnocoenopodidae that are represented by only one species each.

**Keywords.** Arthropoda, Hexapoda, aquatic insects, caddisflies, check-list, Vietnam.

### INTRODUCTION

The holometabolous aquatic insect order Trichoptera has a cosmopolitan distribution pattern and found in almost all freshwater types, with some species also known to inhabit brackish water and even marine waters (Gullefors & Müller 1990; Riek 1977). The primary water types are various available lentic or lotic freshwater types, even some temporary water bodies are inhabited by Trichoptera larvae. As a part of the Ephemeroptera, Plecoptera and Trichoptera (EPT) macroinvertebrates the diversity of Trichoptera is frequently applied in water quality analyses and bio-monitoring (e.g. Bispo & Oliveira 2007, Fikri *et al.* 2016, Wallace, Grubaugh & Whiles 1996). Some diversity analyses rest on higher level taxonomy and Resh & Unzicker (1975) and others point out that correct species identifications are important for correctly mirroring ecological status. Associations of larvae and adults were traditionally difficult and only possible based on

geographical distribution data correlated population densities of adults and juveniles. Recently, DNA sequence data has taken over as a better data source and is now becoming the best way of associating larvae, pupae and adults (e.g., Shan, Yang & Wang 2004, Johanson 2007). According to recent figures (Wikipedia 2021) Vietnam has a land area of almost 332,000 km<sup>2</sup>, *i.e.*, about the size of Malaysia. The topography can be considered diverse, with a more or less continuous mountain chain along the borders to China and Laos, an isolated mountain massive mainly in the Lam Dong Province in the southeastern part; as well as very large hilly regions to the south and east of the mountain chain towards lowland coastal areas and rather flat Mekong River Delta in the south. The precipitation is considered high to very high, some regions with clear divisions into seasons (ISPONRE 2009), some areas with wet seasons of tropical monsoons. The great variation in rainfall and other climate conditions like temperature, which together with presence of per



**Figure 1.** Adult Vietnamese Trichoptera. A = *Rhyacophila* sp. male (Rhyacophilidae). B = *Cheumatopsyche* sp. female (Hydropsychidae). C = *Wormaldia muoisian* male (Philopotamidae). D = *Setodes brevicaudatus* male (Leptoceridae). E = *Triaenodes* sp. male (Leptoceridae).

manent freshwater habitats, would potentially represent suitable habitats for a great diversity of freshwater organism, like Trichoptera. Adults are most frequently collected by using light traps and Malaise traps, and representatives of most families are distinguished from moths by the wings' position that in rest are laid above the body and forming a sharp roof (Fig. 1). By the end of 2021 the world Trichoptera diversity comprised 16,267 species in about 630 genera and 66 families (Morse 2021). These numbers are increasing and since 2006 (deMoor & Ivanov 2008) the number of known species have increased by about 30 %. In order to make as much information as possible

about the existing diversity of Vietnamese Trichoptera species available for future work on diversity, taxonomy and systematics, biogeography, ecology and genetic, a catalog on the Vietnamese Trichoptera species by December 31, 2021 was constructed together with a variety of other important parameters.

### Historical background

The first two Trichoptera species recorded from Vietnam was *Hydromanicus buenningi* Ulmer, 1907 and *Paraphlegopteryx tonkinensis* (Ulmer, 1907) described from 2000–3000 ft. at the Mauson Mountains in the Lang Son Province, Northern Vietnam. A third species was described from Hanoi in 1913 by Navás as *Esperona orientalis* Navás, 1913, later transferred to the genus *Dipseudopsis*. Old records were rare, and only two more species were recorded in each of the years 1917, 1921 and 1930, twelve in 1932, and 1 in 1934 (Navás 1917, 1921, 1930, 1932, Mosely 1934). By the end of 1980, 23 species were known from Vietnam, a number that increased dramatically over the following 32 years, as demonstrated in the graphical expression of the cumulative sum of recorded species in Vietnam over time (Fig. 2).

### MATERIAL AND METHODS

The catalog is based on 7,610 records of adult caddisflies collected in Vietnam, identified to species, and published in research papers between the years 1907 and 2021. The majority of the records, 69 %, are from males, the rest are females. Records from other areas than Vietnam have not been counted on individual basis, and only a minor part of the records from countries outside Vietnam are expected to be represented in the catalog.

### Catalog format

Species names follow the original spelling, with author(s) and year separated by a comma and without parenthesis when the original combination is used. When a species changed parent genus

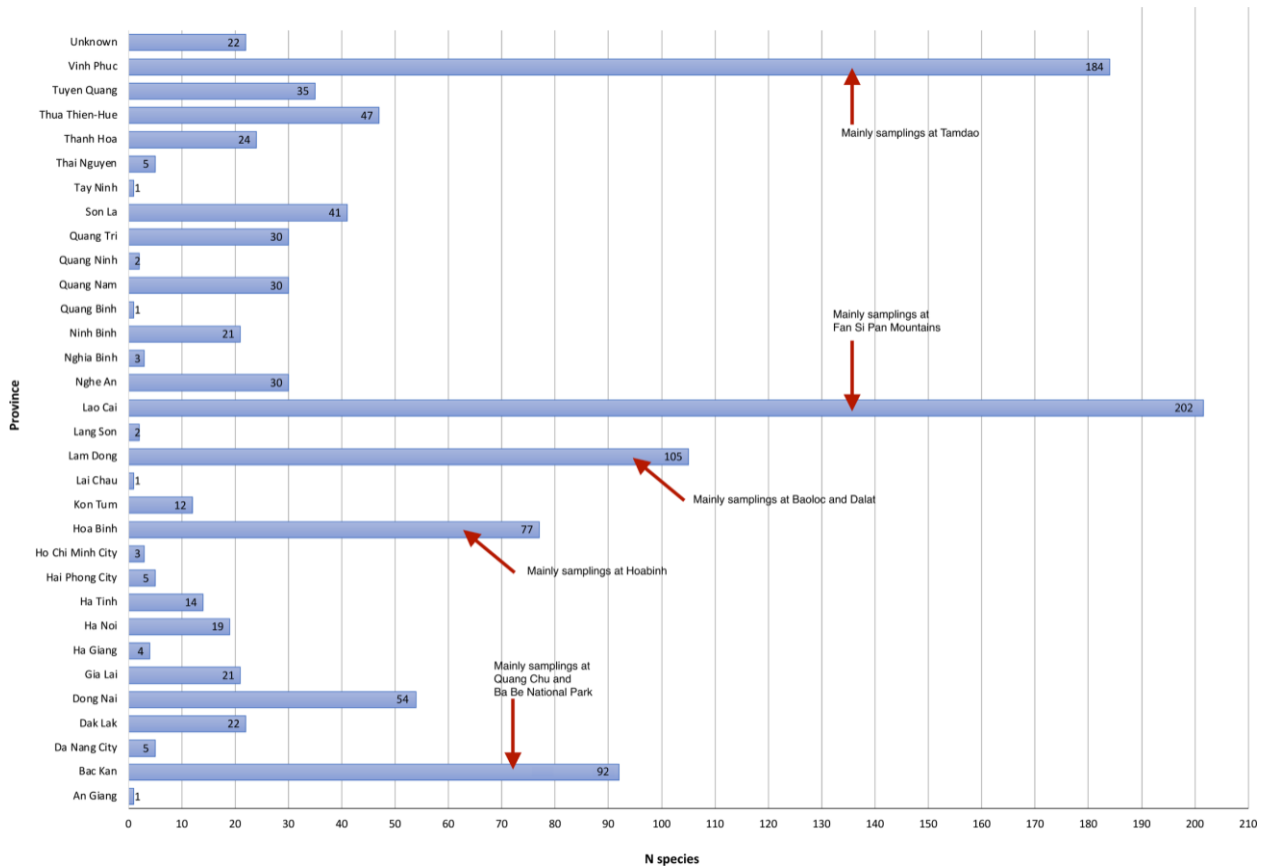
the author and publication year is within a parenthesis.

The original publication for the description is given below, with comma separating the author(s) and year, and a page number where the species name appears. The taxonomic history, including eventual designation of lectotype and neotype, are listed with synonyms and misspellings if available and references to these afterwards and without comma between author(s) and year. The type locality data for all species are listed in original spelling and without collecting date. Interpretations are given in [brackets]. When known, the type material depository information is listed below the type locality information and follow the information given in the original publication. One exception is that of Weidner (1964) who revised the list of types deposited in the Zoologisches

Museum, Universität Hamburg, Germany. Less comprehensive exceptions are given in a few publications and are documented by a reference. Ecological data is presented after “Habitat”. The distribution information list, as far as possible, all countries where the Vietnamese species have been recorded, as well as Vietnamese provinces when known. All data have been given with references. Eventual additional data are listed under Remarks.

“Unknown province” in the distribution sections is applied as information in the catalog only if other provinces are not stated in literature, or if the first record or listing is excluding province data.

Citations are only given if new records are presented or summarises a countrys species.



**Figure 2.** The cumulative sum of species recorded from Vietnam, starting with the two species *Hydromanicus bueningi* Ulmer, 1907 and *Paraphlegopteryx tonkinensis* (Ulmer, 1907) described from 2000–3000 ft. at the Mauson Mountains in the Lang Son Province (Ulmer 1907a). By the end of 2021 a total of 835 species was reported, a figure adjusted for synonymizations and excluding unidentified material that were reported in literature to genus level only.

**Table 1.** List of depository institutions of type material of Vietnamese species\*.

<i>Acronym</i>	<i>Depository institution</i>
AMNH	American Museum of Natural History, New York, USA
CAS	California Academy of Sciences, San Francisco, California, USA
CNC	Collection Nationale Canadienne d'Insectes, d'Arachnides et de Nématodes, Ottawa, Canada
HKUBM	Biodiversity Museum, University of Hong Kong, Hong Kong, China
HNHM	Hungarian Natural History Museum, Budapest, Hungary
IMK	Indian Museum, Kolkata, India
IRSNB	Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium
KPMNH	Kanagawa Prefectural Museum of Natural History, Kanagawa, Japan
MCZ	Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts, USA
MNHN	Muséum National d'Histoire Naturelle, Paris, France
MPC	Malicky Private Collection, Lunz am See, Austria
MZBS	Museu de Zoologia, Ajuntament de Barcelona, Barcelona
MZPW	Polish Academy of Science, Warsaw, Poland
NAU	Department of Plant Protection, Nan-jing Agricultural University, Nan-jing, Jiang-su Province, China
NHM	The Natural History Museum, London, Great Britain
NHMW	Naturhistorisches Museum Wien, Vienna, Austria
NHRS	Swedish Museum of Natural History, Stockholm, Sweden
NMKL	National Museum, Kuala Lumpur, Malaysia
NTM	National Taiwan Museum, Taipei, Taiwan
OPC	Oláh Private Collection, Debrcen, Hungary
PAN	Stettiner Museum, now Polish Academy of Science, Museum of the Institute of Zoology, Warszawa, Poland
RMNH	Naturalis Biodiversity Centre, Leiden, The Netherlands
ROM	Royal Ontario Museum, Toronto, Canada
SWU	Seoul Women's University Insect Collection, Seoul, Korea
TISTR	Thailand Institute of Scientific and Technological Research, Bangkok, Thailand
UAEC	Department of Biological Sciences, University of Alberta, Edmonton, Canada
UOPJ	Entomological Laboratory, University of Osaka Prefecture, Osaka Sakai, Japan
USNM	National Museum of Natural History, Smithsonian Institution, Washington D. C., USA
VNMN	Vietnam National Museum of Nature, Hanoi, Vietnam
WUNH	John Weaver Collection, University of New Hampshire, Durham, New Hampshire, USA
ZFMK	Zoologisches Forschungsinstitut und Museum Alexander Koenig, Bonn, Germany
ZIKU	Zoological Institute, Kyoto Imperial University, Japan
ZIN	Zoological Institute, Russian Academy of Sciences, St. Petersburg, Russia
ZMH	Zoologisches Museum, Universität Hamburg, Hamburg, Germany
ZMHB	Museum für Naturkunde, Humboldt-Universität, Berlin, Germany
ZMUC	Zoologisk Museum, Universitetet i København, Copenhagen, Denmark
ZMUM	Zoological Laboratory, University of Moscow, Moscow, Russia

\*The list is alphabetically arranged after the acronym of the institutions. The acronyms are mainly taken from Evenhuis (2021).

The countries listed in this catalog mainly follow the ISO 3166-1 (codes for the representation of names of countries and their subdivisions – part 1: country codes) and Wikipedia (2021). Taiwan is a state under China but is in the catalog for biogeographical reasons listed as an identifiable unit.

Records from the other countries than Vietnam is restricted and follow mainly the following authors, except when otherwise indicated in the catalog:

China: Yang, Sun & Morse (2016). Taiwan (China): Malicky (2014a). Europe: Neu *et al.* (2018). Turkey: Darilmaz & Salur (2015) and Sipahiler (2016). Russia: Ivanov (2011). Cam-

bodia: Malicky, Melnitsky & Ivanov (2014) and Ito & Kuhara (2007). Myanmar: Wityi, Nozaki & Fujino (2015). North Korea and South Korea follow Park & Kong (2020). Mongolia follow Chuluunbat, Morse & Boldbaatar (2016). Nepal: Malicky (2006a, 2017b and 2018a). Bhutan: Malicky (2007a). Malaysia (some): Malicky, Ivanov & Melnitsky (2014). Indonesia (some): Malicky (2007b). Armitage *et al.* (2005a) present-

ed a check-list of all species known from Vietnam in 2003. This was a very helpful tool in the present work, and was listed as a data source when species records with more data were unavailable from other literature.

Previous phylogenetic analyses (e.g. Kjer et al. 2016) failed to separate *Synagapetus* and *Agapetus* into monophyletic subgenera or genera. Therefore, both *Synagapetus* and *Agapetus* species are listed as *Agapetus* in the catalog, without subgeneric affiliation.

### Spatial and temporal data

Many of the published records include coordinate data, elevation data and collecting dates. However, most of the locality records are without coordinate data, these were calculated subsequently using various cartographic tools. Elevations and collecting dates were based on data from the original publication only or by personal communication with authors.

### Type material and type locality

Data about the type material was gathered from the original publication or from other literature if original data was unavailable. Depository data about the types of only a few species are unavailable because the data was absent in the literature. Some types are in the catalog considered as lost. The type depository information follows the list of institutions (Table 1) above. The type locality is given for all species, based on data from the original publications. Some geographical information has been transferred to modern names and is then given in [brackets].

## RESULTS

The known diversity of Trichoptera in Vietnam is 835 species in 28 families, representing almost 45% of the family diversity and 5.1% of the world species diversity. The size of the 28 families measured in recorded species is shown in Fig. 3. With 139 species recorded, the most species rich family is the Hydropsychidae,

followed by the Philopotamidae, Leptoceridae and the Hydroptilidae. These four families comprise 50% of the species diversity in Vietnam. The species in these families are known to inhabit various running water habitats but many species in the Leptoceridae and Hydroptilidae prefer more lentic habitats. By number of species, the smallest families are the Phryganopsychidae and Brachycentridae (two species each) and the Sericostomatidae, Phryganeidae and Limnacentropodidae that are represented by only one species each. Many of these families are only collected from the mountains in the northeast parts.

### Sampling sites

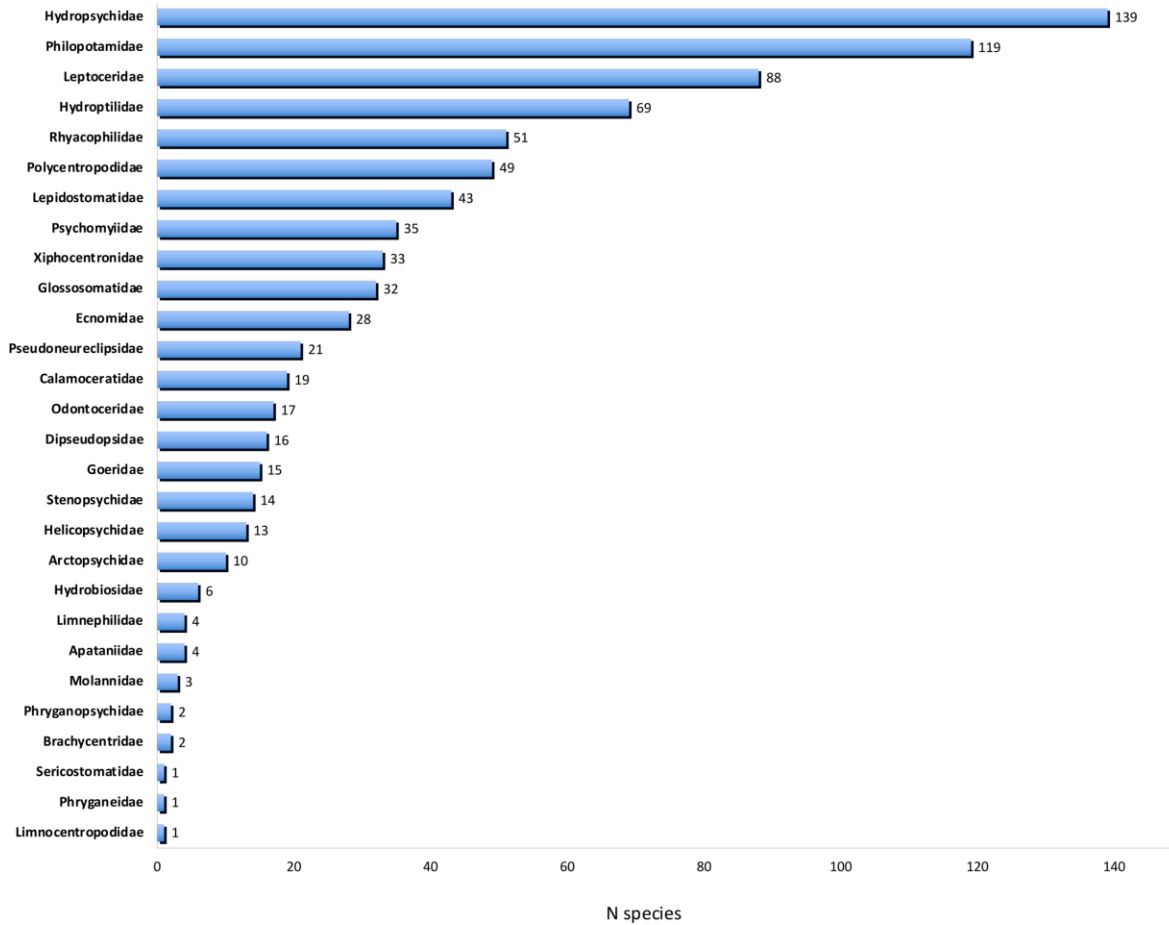
Collecting sites for 826 of the 835 species are presented in Fig. 4a as red dots, all on the mainland part of Vietnam, except Cat Ba Island in the Halong Bay. Nine species lack coordinates and could not be plotted on the map. Most of the localities are clustered in the northern most part, central part and the north area of the southern tip.

### Latitude

The species diversity is correlated to the sampling localities, as is demonstrated in Fig. 4b. With almost 249 species the highest diversity is found at latitudes between 21 and 22 degrees north, followed by 22–23 degrees north (236 species). The third richest latitude interwall is far south, between 11–12 degrees north, and comprises 132 species. No species have been recorded in the latitudes 8–10 degrees north, only one species is known from higher latitudes than 23 degrees north.

### Provinces

The species diversity in the 33 provinces with known species records is illustrated in Fig. 5. It is clear that some provinces hold higher species diversity compared to some other provinces. With 202 and 184 species both Lao Cai Province and Vinh Phuc Province, respectively, have the highest species diversity. The diversity in the Vinh Phuc Province is mainly due to collecting efforts



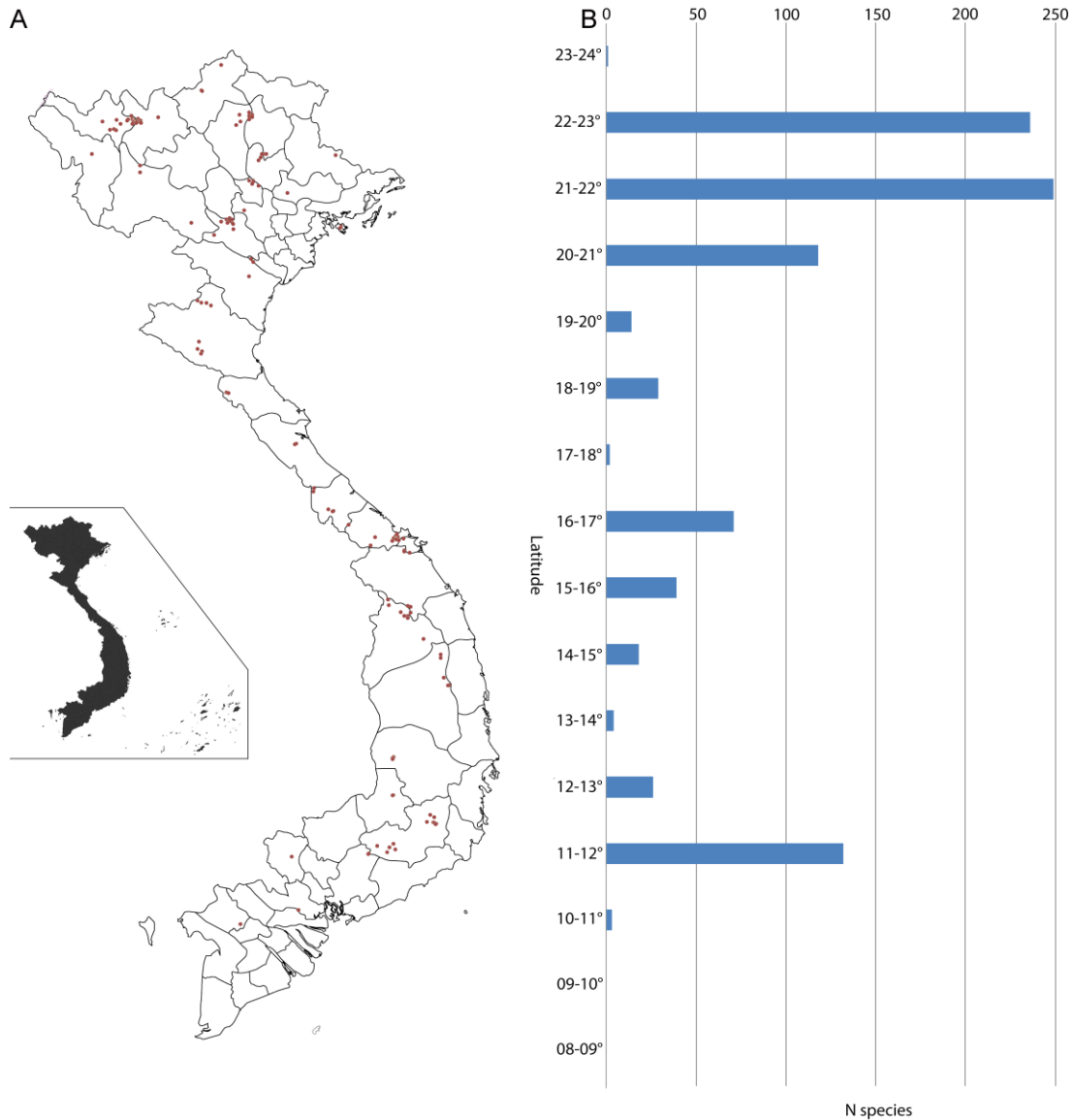
**Figure 3.** The number of species in the 28 Trichoptera families recorded from Vietnam.

in the Tam Dao Mountains, and that of the Lao Cai Province due to sampling activities mainly in the Fan Si Pan Mountains. The high species counts in Lam Dong Province, Bac Kan Province and Hoa Binh Province can be explained by the collecting efforts in Baoloc, Dalat, Quang Chu, Ba Be National Park and Hoabinh. Several provinces have only one species recorded: An Giang, Lai Chau, Quang Binh and Tay Ninh. Thirty provinces, of which about two-thirds are situated in the Mekong River Delta and Southeastern Region in the southern part of the country, have no species recorded.

### Altitude

The rugged topography in Vietnam is particularly visible along mountains forming natural borders to China and Laos, but also in the coastal

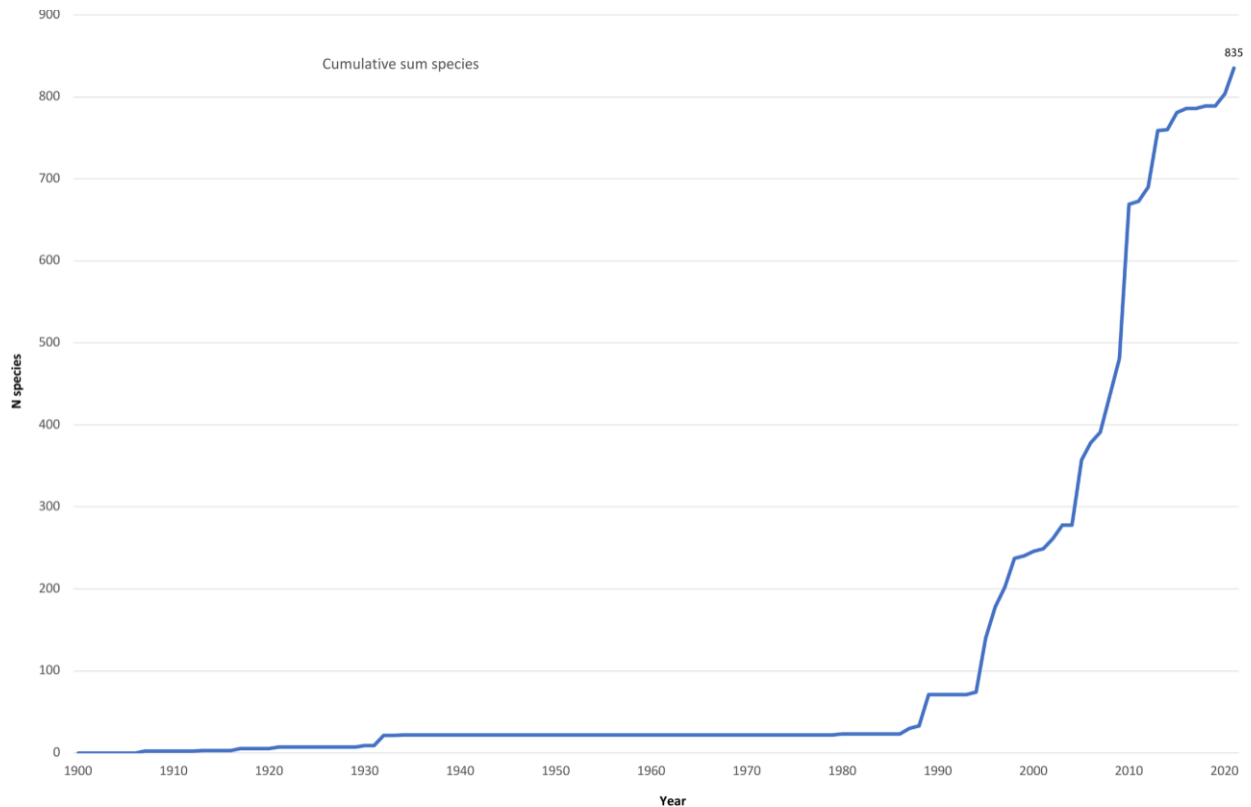
areas except the flatter Mekong River Delta Region in the south. The country's mean altitude is 398 m a. s. l., which is almost 100 and 200 meters higher than that of its neighbour countries to the west, Thailand and Cambodia, respectively, and more than 200 m lower than that of Laos. The highest peak is Fan Si Pan Mountain in the north, which has its summit at 3,143 m a. s. l. and which reaches higher than the highest altitudes in both neighbour countries Laos, Cambodia and Thailand. Freshwater systems in Sapa in the Fan Si Pan Mountains were described by Jung *et al.* (2008) to be very variable, and the altitude of the highland is an important factor in production of high humidity in the area and thereby also a great variety of streams and rivers. This again strongly affects the diversity of aquatic macroinvertebrates.



**Figure 4.** Map of Vietnam, shaded to the left. A = Mainland Vietnam with province borders and species records plotted as red filled circles. B = The number of species in Vietnam in each of the 1° latitude intervals.

Based on collecting data, the diversity and composition of the Trichoptera fauna is clearly changing along an altitudinal gradient. The altitude data include were available for 603 species, some with multiple height information of the collecting site, and some with only one data point. The data was available for records taken from both Vietnam and outside Vietnam. The diversity at various altitudes were counted as species numbers in the height intervals (m a. s. l) 0–100,

101–200, 201–500, 501–1000, 1001–1500, 1501–2000, 2001–2500, and 2501–3000. The results (Fig. 6) shows that the highest species number is recorded from sites in the altitude interval 1001–1500 m a.s.l. followed by the interval 501–1000 m a. s. l. and 201–500 m a. s. l. The species diversity at 0–100 m a. s. l. is approximately as high as that above 2001 m a. s. l. No species were recorded above 3000 meters.



**Figure 5.** The number of species in Vietnamese provinces. Red arrows indicate particularly species rich provinces and list areas in the provinces that have been extensively explored.

### Fenology

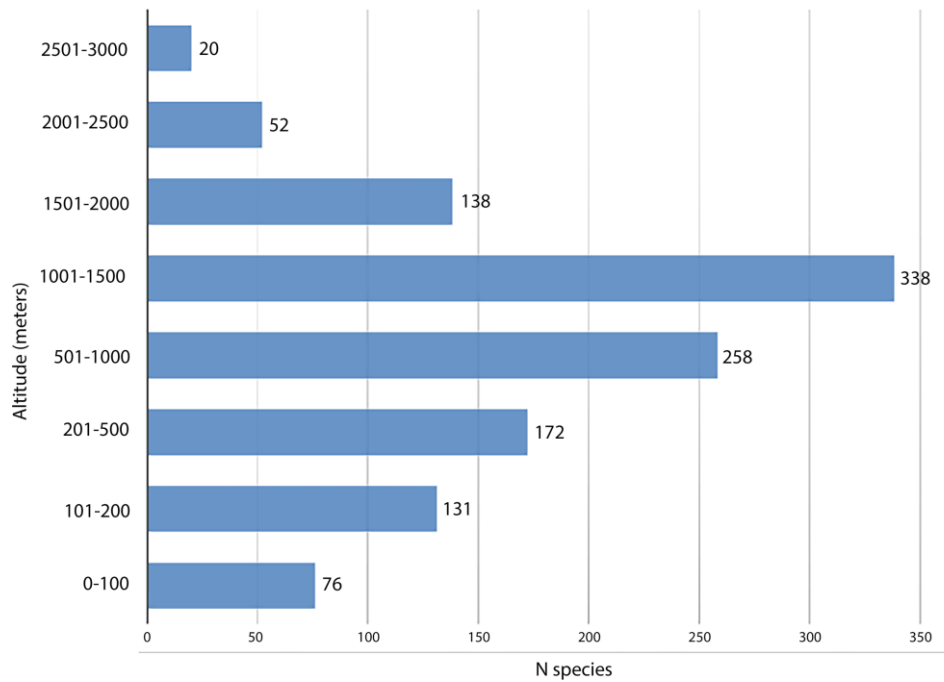
Collecting dates are available for most specimen records but the species-specific information has not been included in the catalog. Instead, the collecting data of all specimens is summarized for Vietnamese records and non-Vietnamese records in Fig. 7 as species counts per month. From the figure it is seen that the number of species collected over a year is approximately equal in all months for records outside Vietnam, with a slight dip in January only. Vietnamese records, however, have all a markedly increase in number of species in May–June and again in October. Only very few species are collected in Vietnam in July–September and in December.

### DISCUSSION

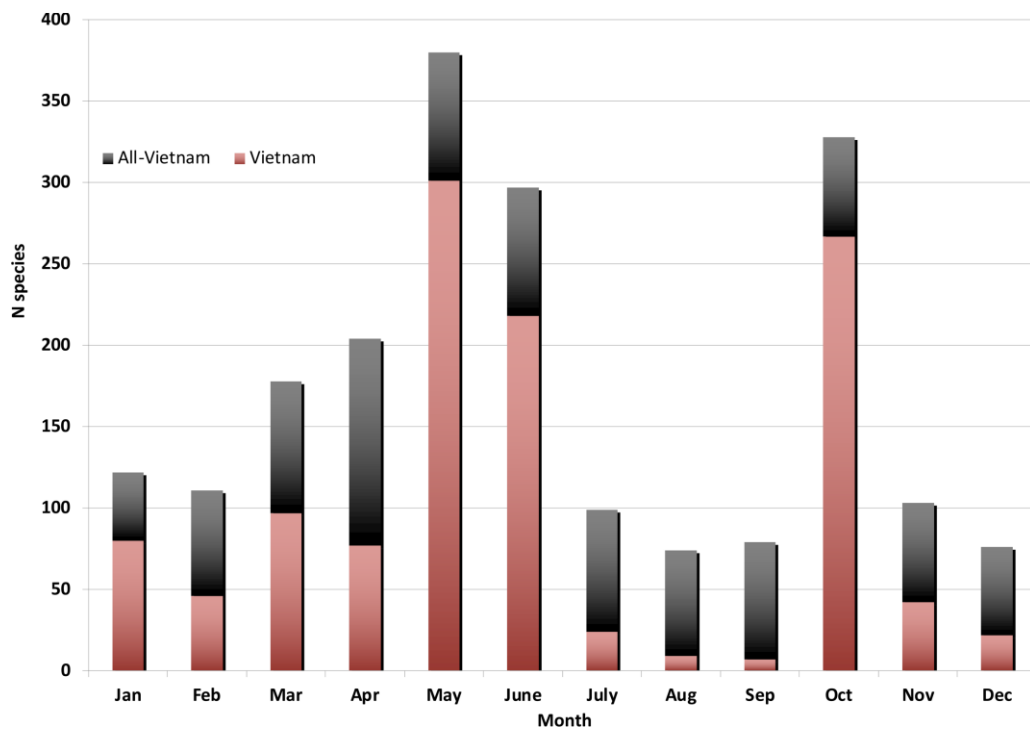
The number of species recorded from Vietnam is increasing, particularly strongly over the last 30

years. Similar raise in number of species is apparent also from other, nearby countries. For example, the number of species known from China in 2005 was 1,000 spp. but over a period of only 10 years raised by almost 30% to 1,267 spp. in 2016 (Yang *et al.* 2005, Yang, Sun & Morse 2016a). In the same period the known species from Vietnam was 357 and 786, respectively, an increase by 120%. There are indicators suggesting that the true diversity of Trichoptera is higher than the 835 species documented in this catalog. Hoang & Bae (2006) listed 73 species from 32 sampling sites in Vietnam. Three species were identified to already described species; the remaining 70 species were assigned to genus only and could very well include more species still unknown from the country. In addition, some species with wide distribution pattern might represent species complex with very similar characters traditionally used for separating species. In example, *Rhyacophila bidens* Kim





**Figure 6.** The number of species at various altitudes in Vietnam. Some species have been recorded from more than one altitude interval and are represented in more than one staple.



**Figure 7.** Phenology of Vietnamese Trichoptera species, based on all species recorded from Vietnam having collecting date (month) records. Red staples are based on data from Vietnam only, black staples are based on data from outside Vietnam but on Vietnamese species.

mins, 1953 was splitted into several species by Oláh & Kiss (2018).

About 30 Vietnamese provinces have no records of Trichoptera and better examination and understanding of the aquatic organisms in these parts of the country will almost certainly reveal more species.

**Acknowledgement** – Dr. Hans Malicky, Lunz am See, Austria, kindly commented on the distribution of many species.

## THE CATALOG

### **Arctopsyhidae Martynov, 1924**

#### ***Arctopsyche cervinata* Mey, 1997**

*Arctopsyche cervinata* Mey, 1997a: 160.

*Type locality.* Vietnam, Sa Pa, Fan Si Pan Mts, 1600 m.

*Type depositary.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Laos** (Malicky 2010a), **Vietnam** (Lao Cai Province: Mey 1997a, Mey 2005).

#### ***Arctopsyche clasnaumanni* Mey, 2005**

*Arctopsyche clasnaumanni* Mey, 2005: 277.

*Type locality.* Vietnam, Lao Cai Province, Sa Pa, Botanical Garden, 22°20'N, 103°50'E, 1560 m.

*Type depositary.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005).

#### ***Arctopsyche hynreck* Malicky & Chantaramongkol, 1991**

*Arctopsyche hynreck* Malicky & Chantaramongkol, 1991a: 84.

*Type locality.* Thailand, Doi Inthanon, Bang Khun Klang, 1200 m.

*Type depositary.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012, Malicky 2019). Madicolous, crash and riffle zones of streams at 750–1,460 m altitude (Thamsenanupap, Chantaramongkol & Malicky 2005).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1991a; Malicky 2019; Thamsenanupap, Chantaramongkol & Malicky 2005; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Unspecified province: Malicky 2010a).

*Remarks.* The larva was described by Thamsenanupap, Chantaramongkol & Malicky (2005a).

#### ***Arctopsyche loeffleri* Mey, 2009**

*Arctopsyche loeffleri* Mey, 2009: 87.

*Type locality.* Vietnam, Thua Thien-Hue Province, A Luoi, A Roang, Khe Cha Lenh, N16° 05.374', E107°27.559', 809 m.

*Type depositary.* Male holotype in ZMHB.

*Habitat.* Rainforests (Mey 2009).

*Distribution.* **Vietnam** (Thua Thien Hue Province: Mey 2009).

#### ***Arctopsyche mesogona* Mey, 1997**

*Arctopsyche mesogona* Mey, 1997a: 156.

*Type locality.* Vietnam, Sa Pa, Fan Si Pan Mts, 1600 m.

*Type depositary.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 1997a, Mey 2005a).

#### ***Arctopsyche vietnamensis* Mey, 1997**

*Arctopsyche vietnamensis* Mey, 1997a: 157.

*Type locality.* Vietnam, Sa Pa, Fan Si Pan Mts, 1600 m.

*Type depositary.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997a, Mey 2005a).

***Maesaipsyche lappa* Arefina-Armitage & Armitage, 2015**

*Maesaipsyche lappa* Arefina-Armitage & Armitage, 2015: 10.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 830 m, 15°10'N, 108°5'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2015).

***Maesaipsyche mekongensis* Mey, 2001**

*Maesaipsyche mekongensis* Mey, 2001: 161.

*Type locality.* Laos, Luang Prabang, 240 km N Vientiane, Mekong River.

*Type depository.* Male holotype in ZMHB.

*Habitat.* The larvae possibly inhabit a potamobiontic *Habitat* (Mey 2001).

*Distribution.* **Laos** (Mey 1991a), **Vietnam** (Nghe An Province: Oláh 2013. Bac Kan Province: Arefina-Armitage & Armitage 2015).

*Remarks.* Oláh (2013) reports the *Type locality* as Nghe An Province, Frontier-Vietnam, 750 m, 19°40.879'N, 104°49.444'E, 3.xi.1999. The male genitalia were re-described by Arefina-Armitage & Armitage (2015a).

***Parapsyche angularia* Mey, 1996**

*Parapsyche angularia* Mey, 1996a: 58.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

***Parapsyche intawitschajanon* Malicky & Chantaramongkol, 1992**

*Parapsyche intawitschajanon* Malicky & Chantaramongkol, 1992a: 21

*Parapsyche intawitschajanon helvola* Mey, 1998a: 11.

*Type locality.* Thailand, Doi Inthanon, 2300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Primary forests (Mey 1998a).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1992a), **Vietnam** (Lao Cai Province: Oláh 2013, Mey 1998a, Mey 2005a).

*Remarks.* The holotype of *P. i. helvola* is in Museum für Naturkunde, Berlin, Germany.

**Apataniidae Wallengren, 1886**

***Moropsyche circumflexa* Mey, 1997**

*Moropsyche circumflexa* Mey, 1997b: 200.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in Mey Collection of the Museum fuer Naturkunde Berlin, Germany.

*Habitat.* Hygropetric site and spring streams (Mey 1997b).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a, Oláh 2013).

***Moropsyche exophila* Mey, 1997**

*Moropsyche exophila* Mey, 1997b: 200.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Laos** (Malicky atlas), **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Moropsyche limacodes* Malicky, 1995**

*Moropsyche limacodes* Malicky, 1995a: 873.

*Moropsyche limnicodes* [sic]; Armitage, Mey, Arefina & Schefter, 2005a: 32.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Small streams in forest (Oláh 2013).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Armitage et al. 2005a; Oláh 2013).

***Moropsyche primigena* Mey, 1997**

*Moropsyche primigena* Mey, 1997b: 199.  
*Moropsyche primordiata* Mey, 1997b; Malicky 2013: 49.  
*Moropsyche primigenia* [sic]; Malicky 2013: 49.  
*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.  
*Type depository.* Male holotype in ZMHB.  
*Habitat.* Unknown.  
*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Oláh 2013, Mey 1997b; Mey 2005a).

**Brachycentridae Ulmer, 1903**

***Micrasema consimile* Mey, 1997**

*Micrasema consimilis* Mey, 1997b: 199.  
*Type locality.* Vietnam, NW Sa Pa, Fan Si Pan gebirgsmas/siv, Westseite, 1400–1600 m.  
*Type depository.* Male holotype in ZMHB.  
*Habitat.* Unknown.  
*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Micrasema turbo* Malicky & Chantaramongkol, 1992**

*Micrasema turbo* Malicky & Chantaramongkol, 1992a: 22.  
*Type locality.* Thailand, Doi Inthanon, Bang Khun Klang, 1300 m.  
*Type depository.* Male holotype in MPC.  
*Habitat.* Streams (Bunlue et al. 2012).  
*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1992a), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).  
*Remarks.* According to Malicky (2013a) *Micrasema turbo* Malicky & Chantaramongkol, 1992 and *Micrasema jihmam* Schmid, 1992 are synonyms.

**Calamoceratidae Ulmer, 1905**

***Anisocentropus brevipennis* (Ulmer, 1906)**

*Ganonema brevipenne* Ulmer, 1906: 46.  
*Anisocentropus brevipennis* (Ulmer, 1906); Ulmer, 1951: 348.  
*Type locality.* [Malaysia] Nord-Borneo.  
*Type depository.* Male holotype in PAN.  
*Habitat.* Running water at low altitude (12 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Streams (Bunlue et al. 2012). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **India** (Nuntakwang, Chantaramongkol & Courtney 2007), **Indonesia** (Malicky 2007b), **Malaysia** (Ulmer 1906), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Chantaramongkol 2005; Seetapan & Prommi 2012), **Vietnam** (Kon Tum Province: Arefina-Armitage & Armitage 2015; Thua Thien-Hue Province: Murray-Stoker et al. 2020).

*Remarks.* One of the specimens in the type series is different from the other specimens and is possibly lost (Oláh & Johanson 2010e). Waterstradt, the collector of the types sampled Lepidoptera in Mont Kina Balu in 1903 and the Trichoptera material might have originated from the same area, indicating that Malaysia is the type country.

***Anisocentropus bungus* Oláh & Johanson, 2010**

*Anisocentropus bungus* Oláh & Johanson, 2010e: 58.  
*Type locality.* Vietnam, Nghia Binh Province, Bung Stream.  
*Type depository.* Male holotype in OPC.  
*Habitat.* Streams (Oláh & Johanson 2010e).  
*Distribution.* **Vietnam** (Nghia Binh Province: Oláh & Johanson 2010e).

***Anisocentropus cameloides* Malicky, 1995**

*Anisocentropus cameloides* Malicky, 1995a: 870.  
*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010e).

***Anisocentropus csorbai* Oláh & Johanson, 2010**

*Anisocentropus csorbai* Oláh & Johanson, 2010e: 60.

*Type locality.* Vietnam, Quang Tri Province, Huong Hoa District, Huong Hoa Nature Reserve, near Cup Village, loc Number 92, contered at 16°56'15N, 106°34'52E, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Johanson 2010e).

***Anisocentropus erichthonios* Malicky & Cheunbarn, 2001**

*Anisocentropus erichthonios* Malicky & Cheunbarn, 2001 in Malicky et al., 2001: 13.

*Type locality.* Thailand, Prov. Mae Hong Son, Mae Nam Pai (10 km S Pai), 19°16'N, 98°27'E, 500 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers (Oláh & Johanson 2010e).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Malicky et al. 2001), **Laos** (Oláh & Johanson 2010e), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010e).

***Anisocentropus janus* Malicky & Chantaramongkol, 1994**

*Anisocentropus janus* Malicky & Chantaramongkol, 1994 in Malicky, 1994b: 75.

*Type locality.* Thailand, Doi Inthanon, 900 m.

*Type depository.* The holotype in MPC.

*Habitat.* Forest streams (Oláh & Johanson 2010e).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Malicky 1994b; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010e. Quang Tri Province: Oláh & Johanson 2010e).

*Remarks.* The male was re-described by Oláh & Johanson (2010e).

***Anisocentropus kawamurai* (Iwata, 1927)**

*Kizakia kawamurai* Iwata, 1927: 211.

*Anisocentropus kawamurai* (Iwata, 1927); Ulmer 1951: 345.

*Ganonema minuta* Martynov, 1930; Ito, Hayashi & Shimura, 2012: 2.

*Ganonema pallidum* Martynov, 1935; Oláh & Johanson 2010e: 16.

*Type locality.* Japan, Lake Lizaki, Nagano-ken.

*Type depository.* Larval holotype in ZIKU.

*Habitat.* Streams (Bunlue et al. 2012). Small streams (Ito, Hayashi & Shimura 2012).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Japan** (Ito, Hayashi & Shimura 2012; Ito & Nagasaka 2014; Iwata 1927b; Oláh & Johanson 2010e; Tanida & Kuranishi 2016), **Myanmar** (Wityi, Nozaki & Fujino 2015; Oláh & Johanson 2010e), **Russia** (Ivanov 2011a), **Taiwan** (Ito, Hayashi & Shimura 2012; Yang, Sun & Morse 2016), **Thailand** (Bunlue et al. 2012; Ito, Hayashi & Shimura 2012), **Vietnam** (Bac Kan Province: Oláh & Johanson 2010e).

*Remarks.* The species was originally described from larval material (Iwata 1927b). The male was re-described by Oláh & Johanson (2010e) and Ito, Hayashi & Shimura (2012a). The female was re-described, and larva and pupa described by Ito, Hayashi & Shimura (2012a). According to Ito, Hayashi & Shimura (2012a) the type material is probably lost.

***Anisocentropus maculatus* Ulmer, 1926**

*Anisocentropus maculatus* Ulmer, 1926: 72.

*Ganonema vestitum* Navás, 1932a; Malicky 1994b: 77.

*Ganonema maculates* [sic]; Yang et al. 2005: 450.

*Type locality.* China, Kuangtung, Lo fau shan.

*Type depository.* Male syntypes in ZMHB.

*Habitat.* According to Dudgeon (1999a) and Li & Dudgeon (2008) the larvae are found among leaf litter in slightly acidic and nutrient poor forest streams. Small forest-streams (Oláh & Johanson 2010e).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014; Navás 1932a), **China** (Yang, Sun & Morse 2016), **Japan** (Yang et al. 2005), **Vietnam** (Ha Noi: Navás 1932a. Bac Kan Province: Oláh & Johanson 2010e. Vinh Phuc Province: Oláh & Johanson 2010e).

*Remarks.* The male genitalia were re-described and the male and female wings were described by Dudgeon (1999a). According to Dudgeon (1999a) adults of the species is collected throught the year in Hong Kong, except in October and January. The original publication lists more localities, the first one considered as the *Type locality*.

***Anisocentropus minerva* Murray-Stoker & Morse, 2020**

*Anisocentropus minerva* Murray-Stoker & Morse, 2020 in Murray-Stoker et al. 2020: 95.

*Type locality.* Vietnam, Thừa Thiên Huê Province, Bach Mã National Park, tributaries meeting 5-Lakes Stream, upstream of 7-m-deep pool, 16.1922°N, 107.8559°E, 1275 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams with pools (Murray-Stoker et al. 2020).

*Distribution.* **Vietnam** (Thừa Thiên Huê Province: Murray-Stoker et al. 2020).

***Anisocentropus orion* Mey, 1997**

*Anisocentropus orion* Mey, 1997b: 203.

*Type locality.* Vietnam, NW Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Anisocentropus pandora* Malicky & Chantaramongkol, 1994**

*Anisocentropus pandora* Malicky & Chantaramongkol, 1994 in Malicky, 1994b: 73.

*Type locality.* Thailand, Doi Inthanom 1600 m.

*Type depository.* Male holotype in ZMUC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Laos** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Malicky 1994b), **Vietnam** (Unspecified province: Malicky 2010a).

***Anisocentropus thonmihn* Oláh & Johanson, 2010**

*Anisocentropus thonmihn* Oláh & Johanson, 2010e: 65.

*Type locality.* Vietnam, Quang Tri Province, Huong Hoa District, Huong Hoa Nature Reserve, near Cup Village, loc Number 92, contered at 16°56'15N, 106°34'52E, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Johanson 2010e).

***Ganonema dracula* Malicky & Chantaramongkol, 1994**

*Ganonema dracula* Malicky & Chantaramongkol, 1994 in Malicky, 1994b: 67.

*Type locality.* Thailand, Doi Angkang, 1500 m.

*Type depository.* male holotype in MPC.

*Habitat.* Streams (Malicky 2019; Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky 1994b; Malicky 2019), **Vietnam** (Lao Cai Province: Mey 2005a).

***Ganonema extensum* Martynov 1935**

*Ganonema extensum* Martynov 1935b: 208.

*Ganonema malickyi* Oláh & Johanson 2010; Malicky 2013: 50.

*Ganonema extensum* [sic]; Thapanya, Chantaramongkol & McQuillan 2005: 433.

*Type locality.* Russia, River Kamenka, near Jakovlevka Village.

*Type depository.* Male and female syntypes in ZIN.

*Habitat.* Slightly acidic and nutrient poor streams in secondary forest (Dudgeon 1999). Waterfalls (Oláh & Johanson 2010e; Park & Bae 1998). Streams (Bunlue et al. 2012).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2008b), **Laos** (Malicky 2010a), **Russia** (Ivanov 2011a; Martynov 1935b; Potikha & Vshivkova 2016), **South Korea** (Park & Bae 1998), **Thailand** (Bunlue *et al.* 2012; Malicky 2014b; Oláh & Johanson 2010e; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

*Remarks.* The male genitalia were illustrated by Park & Bae (1998a). Deformation of genitalia was described by Malicky (2014b).

### ***Ganonema fuscipenne* (Albarda, 1881)**

*Asotocerus fuscipennis* Albarda, 1881: 17.

*Ganonema fuscipenne* (Albarda, 1881); Ulmer 1951: 341.

*Ganonema fuscipenne* [*sic*]; Nuntakwang, Chantaramongkol & Courtney, 2007.

*Ganonema fuscipenne* [*sic*]; Laudee & Prommi 2011: 286.

*Ganonema brunneum* Ulmer, 1905a; Fischer 1965: 15.

*Type locality.* [Indonesia] Sumatra, Moeara Laboe.

*Type depository.* Male, holotype depository unknown.

*Habitat.* Streams (Malicky 2007a). Irrigation channels (Malicky, Melnitsky & Ivanov 2016). Shallow streams with wide riparian zone above artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **Bhutan** (Malicky 2007a), **China** (Yang, Sun & Morse 2016), **India** (Betten 1909), **Indonesia** (Albarda 1881; Malicky 2007b; Malicky, Melnitsky & Ivanov 2016; Ulmer 1905a), **Laos** (Oláh & Johanson 2010e), **Malaysia** (Oláh & Johanson 2010e), **Thailand** (Laudee & Prommi 2011; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Chantaramongkol 2005; Thapanya, Bunlue & Chantaramongkol 2013; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010e).

*Remarks.* The species was listed from Uruguay by Yang *et al.* 2005 and Yang, Sun & Morse 2016, but the record is considered doubtful.

*Ganonema ochraeellum* (McLachlan, 1866) and *Ganonema fuscipenne* (Albarda, 1881) were considered synonyms by Oláh & Johanson (2010e) but Malicky (2013a) considered them as valid. The record by Oláh & Johanson (2010e) from Vietnam, Laos and Malaysia is uncertain with respect of which of the two species are referred to, and therefore listed under both names. Malicky (1994b: 65) mention that the holotype is from Sumatra and deposited in Mus. Leiden. The male genitalia were re-described by Malicky (1994b).

### ***Ganonema neurodes* Navás, 1917**

*Ganonema neurodes* Navás, 1917a: 404.

*Type locality.* Tonquin: Cho-ganh [Vietnam, Ninh Binh Province].

*Type depository.* Female, holotype depository unknown.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Navás 1917).

### ***Ganonema ochraceellum* (McLachlan, 1866)**

*Asotocerus ochraceellum* McLachlan, 1866: 255.

*Ganonema ochraceellum* (McLachlan, 1866); Ulmer 1951: 343.

*Type locality.* [Malaysia] Borneo, Sarawak.

*Type depository.* (sex unknown) in Museum Saundersiano [possibly W. W. Saunders Private Collection (Oláh & Kovács 2015)].

*Habitat.* Streams (Oláh & Johanson 2010e). Spring stream with sand and silt bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Oláh & Johanson 2010e), **Indonesia** (Malicky 2007b; Oláh & Johanson 2010c), **Laos** (Oláh & Johanson 2010e), **Malaysia** (McLachlan 1866; Oláh & Johanson 2010e), **Myanmar** (Oláh & Johanson 2010e; Wityi, Nozaki & Fujino 2015), **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010e. Lam Dong Province: Oláh & Johanson 2010e. Thanh Hoa Province: Oláh & Johanson 2010e).

*Remarks.* The male was re-described by Malicky (2008b) and Oláh & Johanson (2010e). *Ganonema ochraeellum* (McLachlan, 1866) and *Ganonema fuscipenne* (Albarda, 1881) were considered synonyms by Oláh & Johanson (2010e) but Malicky (2013a) considered them as valid. The record by Oláh & Johanson (2010e) from Vietnam, Laos and Malaysia is uncertain with respect of which of the two species are referred to, and therefore listed under both names.

***Ganonema rong* Oláh & Johanson, 2010**

*Ganonema rong* Oláh & Johanson, 2010e: 11.

*Type locality.* Vietnam, Tam Dao.

*Type depository.* Male holotype in OPC.

*Habitat.* Small tributaries (Oláh & Johanson 2010e).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010e).

***Georgium kandaules* Malicky & Chantaramongkol, 2003**

*Georgium kandaules* Malicky & Chantaramongkol, 2003: 920.

*Type locality.* Thailand, Khampaeng Phet Province, Klong Lan National Park, Namtok Klong Lan, 16°07'N, 99°16'E, 310 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky & Chantaramongkol 2003), **Vietnam** (Nghe An Province: Arefina-Armitage & Armitage 2015).

**Dipseudopsidae Ulmer, 1904**

***Dipseudopsis benardi* Navás, 1930**

*Dipseudopsis benardi* Navás, 1930a: 141.

*Dipseudopsis benardi* [sic]; Armitage, Mey, Arefina, & Schefter 2005a: 30.

*Dipseudopsis arculata* Navás, 1931a; Weaver & Malicky 1994: 104.

*Dipseudopsis langana* Navás, 1930a; Weaver & Malicky 1994: 104.

*Dipseudopsis ulmeri* Schmid & Denning, 1979; Weaver & Malicky 1994: 105.

*Dipseudopsis vikhundi* Oláh & Johanson, 2010; Malicky 2013: 45.

*Type locality.* Tonkin, Phu Laing Thuong [Vietnam, Bac Thai Province].

*Type depository.* Female holotype in MNHN.

*Habitat.* Running water at low altitude (19-23 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). River (Oláh & Johanson 2010a). Junctions of small streams (Schmid & Denning 1979).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014; Weaver & Malicky 1994), **China** (Navás 1931a; Yang *et al.* 2005; Weaver & Malicky 1994), **Laos** (Oláh & Johanson 2010a), **Thailand** (Laundee & Prommi 2011a; Schmid & Denning 1979; Weaver & Malicky 1994), **Vietnam** (Bac Kan Province: Navás 1930a. Vinh Phuc Province: Oláh & Johanson 2010a).

*Remarks.* The male head was described by Weaver (2020). Then male genitalia were re-described by Weaver & Malicky (1994). Weaver & Malicky (1994a) stated that the holotype was a male, while Navás (1930a) described the species based on a female.

***Dipseudopsis cocon* Oláh & Johanson, 2010**

*Dipseudopsis cocon* Oláh & Johanson, 2010a: 4.

*Type locality.* Vietnam, Hanoi, West Lake.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Noi: Oláh & Johanson 2010a).

***Dipseudopsis knappi* Schmid & Denning, 1979**

*Dipseudopsis knappi* Schmid & Denning, 1979: 246.

*Type locality.* Thailand, Chienmai Province, Doi Sutep, west of Chiangmai, 1450 ft.

*Type depository.* Male holotype in CAS.

*Habitat.* Running water at low altitude (13 m and below) with mixed bottom of gravel, sand and clay (Laundee & Prommi 2011a). Small streams and waterfalls (Schmid & Denning 1979).

*Distribution.* **Thailand** (Laundee & Prommi 2011; Schmid & Denning 1979), **Vietnam** (Dong



Nai Province: Armitage & Arefina-Armitage 2009).

***Dipseudopsis nebulosa* Albarda, 1881**

*Dipseudopsis nebulosa* Albarda, 1881: 19.

*Dipseudopsis oliveri* Oláh & Johanson, 2010; Malicky 2013: 45.

*Type locality*: Indonesia, Sumatra, Moeara Laboe.

*Type depository*. Female holotype, depository unknown.

*Habitat*. Unknown.

*Distribution*. **Indonesia** (Malicky 2007b; Weaver & Malicky 1994), **Malaysia** (Oláh & Johanson 2010a), **Myanmar** (Weaver & Malicky 1994; Wityi, Nozaki & Fujino 2015), **Thailand** (Weaver & Malicky 1994), **Vietnam** (Quang Tri Province: Faucheux & Oláh 2014, Oláh & Johanson 2010a. Nghe An Province: Oláh 2013).

*Remarks*. The lacinia was described by Faucheux & Oláh (2014a). The type depository was listed to be Leyden with a question mark by Ulmer (1951: 132).

***Dipseudopsis orientalis* (Navás, 1913)**

*Esperona orientalis* Navás, 1913: 12.

*Dipseudopsis orientalis* (Navás, 1913); Lestage 1925a: 39.

*Type locality*. Hanoi (Tonkin).

*Type depository*. Female holotype, depository unknown.

*Habitat*. Unknown.

*Distribution*. **Vietnam** (Ha Noi Province: Navás 1913).

*Remarks*. According to Weaver & Malicky (1994) the species name is a *nomen dubium*. According to Weaver & Marlier (1994) the type has not been found.

***Dipseudopsis robustior* Ulmer, 1929**

*Dipseudopsis robustior* Ulmer, 1929: 185.

*Dipseudopsis robustior andamanensis* Weaver & Malicky, 1994: 134.

*Dipseudopsis akhila* Schmid & Denning 1979; Weaver & Malicky 1994: 132.

*Dipseudopsis junki* Marlier, 1979; Weaver & Malicky 1994: 132.

*Dipseudopsis thailandica* Schmid & Denning, 1979; Weaver & Malicky 1994: 132.

*Type locality*. Malaysia, West Malaysia, Perak.

*Type depository*. Male holotype in ZMH.

*Habitat*. Running water at low altitudes (23 m and below) with mixed bottom of boulder, cobble, gravel, sand and clay (Laundee & Prommi 2011a). Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Shallow streams with wide riparian zone below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). (Marlier 1979). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution*. **Cambodia** (Ito & Kuhara 2007; Malicky, Melnitsky & Ivanov 2014; Weaver & Malicky 1994), **India** (Weaver & Malicky 1994), **Indonesia** (Malicky 2007b), **Malaysia** (Oláh & Johanson 2010a; Ulmer 1929), **Myanmar** (Wityi, Nozaki & Fujino 2015; Weaver & Malicky 1994), **Thailand** (Laundee & Prommi 2011; Marlier 1979; Prommi & Chantaramongkol 2005; Prommi & Thamsenanupap 2012; Sangpradub 2017; Schmid & Denning 1979; Seetapan & Prommi 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (An Giang Province: Weaver & Malicky 1994).

*Remarks*. The male and female were re-described by Ito & Kuhara (2007a).

***Dipseudopsis tonkinensis* Navás, 1921**

*Dipseudopsis tonkinensis* Navás, 1921: 79.

*Dipseudopsis tonkenensis* [sic]; Yang et al. 2005: 445.

*Type locality*. Tonquin, Cho ganh [Vietnam, Ninh Binh Province].

*Type depository*. Male and female syntype, depository unknown.

*Habitat*. Unknown.

*Distribution*. **China** (Yang, Sun & Morse 2016), **Vietnam** (Ninh Binh Province: Navás 1921).

***Dipseudopsis varians* Ulmer, 1929**

*Dipseudopsis varians* Ulmer, 1929: 191.

*Dipseudopsis petersorum* Schmid & Denning, 1979; Weaver & Malicky 1994: 138.

*Dipseudopsis rathnotoia* Oláh & Johanson, 2010; Malicky 2013: 45.

*Dipseudopsis vienha* Oláh & Johanson, 2010; Malicky 2013: 45.

*Type locality.* Malaysia, West-Malaysia, Perak.

*Type depository.* Male holotype in NHM.

*Habitat.* Running water at low altitude (19-23 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Shallow streams with wide riparian zone below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

Rivers (Malicky, Melnitsky & Ivanov 2014). Small rivers in forest (Malicky, Ivanov & Melnitsky 2020). Junctions of small streams (Schmid & Denning 1979).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Malicky 2010a), **Malaysia** (Oláh & Johanson 2010a; Ulmer 1929), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Thailand** (Laudee & Prommi 2011; Malicky, Ivanov & Melnitsky 2020; Schmid & Denning 1979; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Dong Nai Province: Oláh & Johanson 2010a. Lam Dong Province: Oláh & Johanson 2010a. Tay Ninh Province: Oláh & Johanson 2010a).

#### ***Hyalopsyche incerta* (Navás, 1917)**

*Nonquitus incertus* Navás, 1917: 406.

*Hyalopsyche incerta* (Navás, 1917); Lestage 1925b: 119.

*Type locality.* Tonquin [=northern Vietnam, Ninh Binh Province].

*Type depository.* Female holotype in MZBS.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Navás 1917).

#### ***Hyalopsyche sachalinica* Martynov 1910**

*Hyalopsyche sachalinica* Martynov 1910: 397.

*Hyalopsyche amurensis* Martynov, 1934; Arefina, Ivanov & Levanidova 1996: 10.

*Hyalopsyche parvispinosa* Schmid, 1959; Oláh & Johanson 2010a: 18.

*Hyalopsyche parvula* Martynov, 1935; Oláh & Johanson 2010a: 18.

*Hyalopsyche parsula* [sic]; Malicky et al. 2011: 164; Malicky 2010c: 89.

*Type locality.* Russia, Sakhalin.

*Type depository.* Male holotype in ZIN.

*Habitat.* Riparian zone of large rivers (Oláh & Johanson 2010a).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Martynov 1935a), **Indonesia** (Malicky 2007b; Malicky et al. 2011), **Japan** (Tanida & Kuranishi 2016), **Laos** (Malicky 2010c), **Philippines** (Malicky 2010c), **Russia** (Arefina, Ivanov & Levanidova 1996; Ivanov 2011a; Martynov 1910; Martynov 1934; Potikha & Vshivkova 2016; Vshivkova et al. 2016), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Ha Noi: Oláh & Johanson 2010a; Hoa Binh Province: Oláh & Johanson 2010a. Thanh Hoa Province: Oláh & Johanson 2010a).

*Remarks.* Morphological details of legs described by Vshivkova et al. (2007). The male genitalia were re-described by Arefina, Ivanov & Levanidova (1996a). In the original description of *Hyalopsyche parvula*, the spelling was also given as *Hyalopsyche parsula* (Martynov 1935a: 169).

#### ***Hyalopsyche trungha* Oláh & Johanson, 2010**

*Hyalopsyche trungha* Oláh & Johanson, 2010a: 18.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, River Trungring.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers (Oláh & Johanson 2010a).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010a).

#### ***Hyalopsyche winkleri* (Ulmer, 1930)**

*Hyalopsychella winkleri* Ulmer, 1930: 422.

*Hyalopsyche winkleri* (Ulmer, 1930); Oláh & Johanson 2010a: 17.

*Hyalopsychella haplotes* Neboiss, 1989; Oláh & Johanson 2010a: 21.

*Type locality.* Syntypes from Indonesia, Borneo, Nanga Pinoh. Neotype from Indonesia, Sumatra, Muara Klingi, Musi.

*Type depository.* Male neotype in ZMH.

*Habitat.* Springs, creeks and streams (Freitag & Mey 2020).

*Distribution.* **Indonesia** (Malicky 2007b; Neboiss 1989; Ulmer 1930; Ulmer 1951), **Laos** (Malicky 2010a), **Malaysia** (Oláh & Johanson 2010a), **Philippines** (Freitag & Mey 2020), **Thailand** (Malicky 2010a), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021).

*Remarks.* The species was re-described by Ulmer (1951a) based on material from Borneo and Sumatra. The first listed locality was considered representing the *Type locality*. Ulmer (1951) considered that all types are lost.

***Phylocentropus anas* Arefina-Armitage & Armitage, 2011**

*Phylocentropus anas* Arefina-Armitage & Armitage, 2011b: 3.

*Type locality.* Vietnam, Ha Tinh, Huong Son, 1240 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage 2011b).

*Remarks.* The morphology in a phylogenetic perspective was discussed by Weaver (2020).

***Phylocentropus ngoclinh* Arefina-Armitage & Armitage, 2011**

*Phylocentropus ngoclinh* Arefina-Armitage & Armitage, 2011b: 2.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 950 m, 15°10'N, 108°05'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2011b).

*Remarks.* The morphology in a phylogenetic perspective was discussed by Weaver (2020).

***Phylocentropus tohoku* Arefina-Armitage & Armitage, 2011**

*Phylocentropus tohoku* Arefina-Armitage & Armitage, 2011b: 2.

*Type locality.* Vietnam, Ha Tinh, Huong Son, 200 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage 2011b).

*Remarks.* The morphology in a phylogenetic perspective was discussed by Weaver (2020).

***Phylocentropus vietnamellus* Mey, 1995**

*Phylocentropus vietnamellus* Mey, 1995: 210.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500-1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1995).

*Remarks.* The morphology in a phylogenetic perspective was discussed by Weaver (2020).

**Ecnomidae Ulmer, 1903**

***Ecnomus alkestis* Malicky & Chantaramongkol, 1997**

*Ecnomus alkestis* Malicky & Chantaramongkol, 1997: 208.

*Type locality.* Thailand, Doi Inthanon, Mae Klang, 540 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue *et al.* 2012).

*Distribution.* **Thailand** (Bunlue *et al.* 2012; Laundee & Prommi 2011; Malicky & Chantaramongkol 1997), **Vietnam** (Ha Tinh Province: Armitage & Arefina-Armitage 2009).

***Ecnomus anaktamdao* Malicky, 1995**

*Ecnomus anaktamdao* Malicky, 1995a: 866.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Ecnomus areion* Malicky, 1999**

*Ecnomus areion* Malicky, 1999a: 46.

*Ecnomus aerion* [sic]; Armitage & Arefina-Armitage 2009: 1.

*Type locality.* Thailand, Doi Inthanon, 1300 m.

*Type depository.* Male holotype in UAEC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky 1999), **Vietnam** (Lao Cai Province: Armitage & Arefina-Armitage 2009. Quang Nam Province: Armitage & Arefina-Armitage 2009).

***Ecnomus argonautos* Laudee & Malicky, 1999**

*Ecnomus argonautos* Laudee & Malicky, 1999: 6.

*Type locality.* Thailand, Pang Seeda National Park, 800 m.

*Type depository.* The holotype is deposited in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Laudee & Malicky 1999), **Vietnam** (Bac Kan Province: Armitage & Arefina-Armitage 2009. Ha Noi: Oláh & Malicky 2010. Hoa Binh Province: Oláh & Malicky 2010. Than Hoa Province: Oláh & Malicky 2010).

***Ecnomus atevalus* Malicky & Chantaramongkol, 1993**

*Ecnomus atevalus* Malicky & Chantaramongkol, 1993a: 462.

*Type locality.* Thailand, Chiangmai, Ping Stream.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Running water at low altitude (23 m and below) with mixed bottom of gravel, sand and clay (Laudee & Prommi 2011a). Small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Thailand** (Laudee & Prommi 2011; Malicky & Chantaramongkol 1993a;

Malicky, Ivanov & Melnitsky 2020; Prommi & Chantaramongkol 2005; Prommi & Thamsenapap 2012), **Vietnam** (Dak Lak Province: Armitage & Arefina-Armitage 2009).

***Ecnomus bintin* Oláh & Malicky, 2010**

*Ecnomus bintin* Oláh & Malicky, 2010: 26.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh, 8 km to Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010. Hoa Binh Province: Oláh & Malicky 2010).

***Ecnomus bou* Malicky & Chantaramongkol, 1993**

*Ecnomus bou* Malicky & Chantaramongkol, 1993a: 458.

*Type locality.* Thailand, Chattrakan.

*Type depository.* Male holotype in MPC.

*Habitat.* Waterfalls and rivers (Oláh & Malicky 2010). Rivers (Malicky, Melnitsky & Ivanov 2014).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Malicky & Chantaramongkol 1993a), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Ecnomus cationg* Oláh & Malicky, 2010**

*Ecnomus cationg* Oláh & Malicky, 2010: 26.

*Type locality.* Vietnam, Son La Province, Moch Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Lakes (Malicky 2018a).

*Distribution.* **Nepal** (Malicky 2017b; Malicky 2018a), **Vietnam** (Son La Province: Oláh & Malicky 2010).

***Ecnomus cattienensis* Malicky, 1995**

*Ecnomus cattienensis* Malicky, 1995a: 866.

*Type locality.* Vietnam, Nam Cat Thien National Park, 11°26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Dong Nai Province: Malicky 1995a).

#### ***Ecnomus coalitus* Li & Morse, 1997**

*Ecnomus coalitus* Li & Morse, 1997a: 109.

*Type locality.* China, Sichuan, Jiang-you County, Kang-shui-he, tributary of Fu-jiang, 2 km NW Jiang-you.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Li & Morse 1997a; Yang, Sun & Morse 2016), **Vietnam** (Thai Nguyen Province: Oláh & Malicky 2010).

#### ***Ecnomus condao* Oláh & Malicky, 2010**

*Ecnomus condao* Oláh & Malicky, 2010: 26.

*Type locality.* Vietnam, Lamdong Province, Dalat, Prenn waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Waterfalls (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

#### ***Ecnomus daibinh* Oláh & Malicky, 2010**

*Ecnomus daibinh* Oláh & Malicky, 2010: 26.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Dai Binh River.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

#### ***Ecnomus dikla* Malicky, 2009**

*Ecnomus dikla* Malicky, 2009a: 34.

*Type locality.* Vietnam, Nam Cat Tien, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Waterfall in rivers (Laudee & Malicky 2017).

*Distribution.* **Laos** (Laudee & Malicky 2017), **Vietnam** (Dong Nai Province: Malicky 2009a).

#### ***Ecnomus ellipticus* Li & Morse, 1997**

*Ecnomus ellipticus* Li & Morse, 1997a: 102.

*Type locality.* China, Jin-xian County, 33 km E Jin-xian, Song-cun, Ding-xi, Anhui,

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Li & Morse 1997a; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

#### ***Ecnomus hendersoni* Mosely, 1932**

*Ecnomus hendersoni* Mosely, 1932b: 2.

*Type locality.* Malaysia, Perak, Taiping.

*Type depository.* Male holotype in NHM.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Oláh & Johanson 2010c), **Malaysia** (Mosely 1932b), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010. Ho Chi Minh City: Oláh & Malicky 2010).

#### ***Ecnomus jojachin* Malicky & Chantaramongkol, 1993**

*Ecnomus jojachin* Malicky & Chantaramongkol, 1993a: 460.

*Type locality.* Thailand, Chattrakan.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Brooks (Malicky, Ivanov & Melnitsky 2020). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a; Malicky, Ivanov & Melnitsky 2020; Thapanya, Bunlue & Chantaramongkol 2013; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010. Son La Province: Oláh & Malicky 2010).

***Ecnomus mammus* Malicky & Chantaramongkol, 1993**

*Ecnomus mammus* Malicky & Chantaramongkol, 1993a: 458.

*Type locality.* Thailand, Bangsaen.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky & Chantaramongkol 1993a). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Cambodia** (Ito & Kuhara 2007), **Thailand** (Malicky & Chantaramongkol 1993a; Prommi & Thamsenanupap 2012; Seetapan & Prommi 2012), **Vietnam** (Ho Chi Minh City: Oláh & Malicky 2010).

*Remarks.* The male was re-described by Ito & Kuhara (2007a).

***Ecnomus paget* Malicky & Chantaramongkol, 1997**

*Ecnomus paget* Malicky & Chantaramongkol, 1997: 208.

*Type locality.* Thailand, Kaeng Tana NP, Maenan Mun.

*Type depository.* Male holotype in MPC.

*Habitat.* Running waters at low altitude (13 m and below) with mixed bottom of gravel, sand and clay (Laundee & Prommi 2011a).

*Distribution.* **Thailand** (Laudee & Prommi 2011; Malicky & Chantaramongkol 1997), **Vietnam** (Dac Lak Province: Armitage & Arefina-Armitage 2009).

***Ecnomus promat* Malicky & Chantaramongkol, 1993**

*Ecnomus promat* Malicky & Chantaramongkol, 1993b: 1156.

*Type locality.* Thailand, Tramot, 100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers in rainforest (Armitage & Arefina-Armitage 2009).

*Distribution.* **Malaysia** (Malicky 2010a), **Thailand** (Chantaramongkol, Thapanya & Bun

lue 2010), **Vietnam** (Gia Lai Province: Armitage & Arefina-Armitage 2009).

***Ecnomus pseudotenellus* Ulmer, 1930**

*Ecnomus pseudotenellus* Ulmer, 1930: 428.

*Type locality.* Indonesia, South Sumatra, Wai Lima.

*Type depository.* Male holotype in ZMH.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky 2007b; Ulmer 1930), **Malaysia** (Malicky 2010a), **Thailand** (Malicky 2010a), **Vietnam** (Bac Kan Province: Armitage & Arefina-Armitage 2009).

*Remarks.* The male genitalia were re-described by Ulmer (1951).

***Ecnomus puro* Malicky & Chantaramongkol, 1993**

*Ecnomus puro* Malicky & Chantaramongkol, 1993a: 461.

*Type locality.* Thailand, Tham Than Lod nationalpark, 500 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running waters at low altitude (36 m) with bottom of boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Tributaries (Malicky, Suwannarat & Laudee 2018). Brooks and small rivers, waterfalls on bare rock (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Laudee & Prommi 2011; Malicky & Chantaramongkol 1993a; Malicky, Ivanov & Melnitsky 2020; Prommi & Chantaramongkol 2005; Prommi & Thamsenanupap 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Dak Lak Province: Armitage & Arefina-Armitage 2009. Thanh Hoa Province: Oláh & Malicky 2010).

***Ecnomus purogiong* Oláh & Malicky, 2010**

*Ecnomus purogiong* Oláh & Malicky, 2010: 28.

*Type locality.* Vietnam, Son La Province, Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh & Malicky 2010).

***Ecnomus quordaio* Malicky, 1993**

*Ecnomus quordaio* Malicky, 1993a: 83.

*Type locality.* Indonesia, Sumatra, Bukit Maratya, Fluß Bahapal, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky 2010a).

*Distribution.* **Indonesia** (Malicky 1993a; Malicky 2007b; Malicky, Ivanov & Melnitsky 2014), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Thailand** (Malicky 2010a), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021).

***Ecnomus sirtang* Oláh & Malicky, 2010**

*Ecnomus sirtang* Oláh & Malicky, 2010: 27.

*Type locality.* Vietnam, Bac Thai Province, Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Ecnomus tenellus* (Rambur, 1842)**

*Philopotamus tenellus* Rambur, 1842: 503.

*Ecnomus tenellus* (Rambur, 1842); McLachlan 1864: 30.

*Ecnomus falcatus* Mosely, 1932; Schmid 1958: 94.

*Ecnomus kososiensis* Kobayashi, 1987; Kuhara 2016: 564.

*Ecnomus omiensis* Tsuda, 1942; Schmid 1958: 94.

*Type locality.* France, Mans.

*Type depository.* Information not given in the original publication.

*Habitat.* Lakes (Malicky 2017b). Lakes (Ma-

licky 2018a). Shorelines of lakes and ponds (Kuhara 2016). Rivers (Kobayashi, Nozaki & Takemon 2017).

*Distribution.* **China** (Wang 1963; Yang et al. 2005), **Europe** (Neu et al. 2018), **India** (Mosely 1932a), **Iran** (Mirmoayedi & Malicky 2002), **Japan** (Ito & Nagasaka 2014; Kobayashi 1987; Kobayashi, Nozaki & Takemon 2017; Kuhara 2016; Tsuda 1942), **South Korea** (Park & Kong 2020), **Nepal** (Malicky 2017b; Malicky 2018a), **North Korea** (Park & Kong 2020), **Pakistan** (Oláh 1994), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016; Vshivkova et al. 2016), **Sri Lanka** (Schmid 1958), **Taiwan** (Malicky 2014a), **Turkey** (Darilmaz & Salur 2015), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The names *Ecnomus falcatus* Mosely, 1932 and *Ecnomus omiensis* Tsuda, 1942 was synonymized with *Ecnomus tenellus* (Rambur, 1842) again by Malicky (2013a). Details of larval morphology were given by Wang (1963).

***Ecnomus topgom* Oláh & Malicky, 2010**

*Ecnomus topgom* Oláh & Malicky, 2010: 27.

*Type locality.* Vietnam, Bac Thai Province, Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Ecnomus uttu* Malicky & Chantaramongkol, 1993**

*Ecnomus uttu* Malicky & Chantaramongkol, 1993a: 459.

*Type locality.* Thailand, Chattrakan.

*Type depository.* Male holotype in MPC.

*Habitat.* Waterfalls (Oláh & Malicky 2010).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993a), **Vietnam** (Gia Lai Province: Armitage & Arefina-Armitage 2009; Lam Dong Province: Oláh & Malicky 2010).

***Ecnomus volovicus* Malicky & Chantaramongkol, 1993**

*Ecnomus volovicus* Malicky & Chantaramongkol, 1993a: 458.

*Type locality.* Thailand, Chiangmai, Ping Stream.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers (Oláh & Malicky 2010). Streams (Malicky & Chantaramongkol 1993a). Streams and small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Malicky 2010a), **Thailand** (Laudee & Prommi 2011; Malicky & Chantaramongkol 1993a; Malicky, Ivanov & Melnitsky 2020; Prommi & Thamsenanupap 2012), **Vietnam** (Bac Kan Province: Oláh & Malicky 2010; Lam Dong Province: Oláh & Malicky 2010).

**Glossosomatidae Wallengren, 1891**

***Agapetus aranytalan* Oláh, 2013**

*Agapetus aranytalan* Oláh, 2013a: 96.

*Type locality.* Vietnam, Gia Lai-Kontum Province, Lo Xo Pass, 600 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Oláh 2013 [Kon Tum Province]).

***Agpetus barang* Oláh, 1988**

*Agapetus barang* Oláh, 1988: 164.

*Type locality.* Vietnam, Hoa Binh, 8 km from Hoa Binh in the direction of Da Bac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1988).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1988).

***Agapetus caimoc* Oláh, 1988**

*Agapetus caimoc* Oláh, 1988: 163.

*Type locality.* Vietnam, Tamdao, 1300 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1988).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1988).

***Agapetus danbang* Oláh, 1988**

*Agapetus danbang* Oláh, 1988: 161.

*Type locality.* Vietnam, Tamdao, 1400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring brooks on steep rainforest (Oláh 1988).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1988).

***Agapetus dangorum* Oláh, 1988**

*Agapetus dangorum* Oláh, 1988: 157.

*Type locality.* Vietnam, Hoa Binh, 8 km from Hoa Binh in the direction of Da Bac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small streams (Oláh 1988). Streams (Bunlue et al. 2012). Above waterfalls (Malicky, Suwannarat & Laudee 2018). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Indonesia** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Seetapan & Prommi 2012), **Vietnam** (Hoa Binh Province: Oláh 1988).

***Agapetus darlingi* Arefina-Armitage & Armitage, 2015**

*Agapetus darlingi* Arefina-Armitage & Armitage, 2015: 12.

*Type locality.* Vietnam, Thua Thien-Hue Province, Nam Dong District, Huong Loc Commune, ca 9 km SE Khe Tre, 16°9.403'N, 107°47.782'E.

*Type depository.* Male holotype in the Royal Ontario Museum, Toronto, Ontario, Canada (ROM).

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Arefina-Armitage & Armitage 2015). Quang Nam Province: Arefina-Armitage & Armitage 2015).

***Agapetus desom* Oláh, 1988**

*Agapetus desom* Oláh, 1988: 160.



*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Waterfalls (Oláh 1988).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1988).

***Agapetus eriopus* Mey, 1996**

*Agapetus eriopus* Mey, 1996a: 48.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a; Mey 2005).

***Agapetus esinertus* Malicky & Chantaramongkol, 1992**

*Agapetus esinertus* Malicky & Chantaramongkol, 1992a: 14.

*Type locality.* Thailand, Doi Pukha, 1300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2014a; Yang *et al.* 2005), **Thailand** (Malicky & Chantaramongkol 1992a), **Vietnam** (Bac Kan Province: Arefina-Armitage & Armitage 2015).

***Agapetus fesus* Oláh, 2013**

*Agapetus fesus* Oláh, 2013a: 97.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks, streams and waterfalls (Oláh 2013).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Agapetus fogas* Oláh, 2013**

*Agapetus fogas* Oláh, 2013a: 98.

*Type locality.* Vietnam, Binh Tri Thien Province [Thua Thien-Hue Province], Bach Ma National Park, 100 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown. *ide*

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh 2013).

***Agapetus gonophorus* Mey, 1996**

*Agapetus gonophorus* Mey, 1996a: 48.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Agapetus gotgian* Oláh, 1988**

*Agapetus gotgian* Oláh, 1988: 159.

*Type locality.* Vietnam, Tamdao, 1400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring brooks in steep rainforests (Oláh 1988).

*Distribution.* **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Vinh Phuc Province: Oláh 1988).

***Agapetus grimaldi* Arefina-Armitage & Armitage, 2015**

*Agapetus grimaldi* Arefina-Armitage & Armitage, 2015: 14.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 950 m, 15°11.2'N, 108°2.3'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2015).

***Agapetus halong* Oláh, 1988**

*Agapetus halong* Oláh, 1988: 165.

*Type locality.* Vietnam, Cat Ba Island.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring streams with sand and silt bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Spring brooks (Oláh 1988). Streams (Bunlue *et al.* 2012). Shallow streams with wide riparian zone above artificial

dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **Thailand** (Bunlue et al. 2012; Prommi & Chantaramongkol 2005; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Hai Phong City: Oláh 1988).

***Agapetus kongcanxing* Oláh, 1988**

*Agapetus kongcanxing* Oláh, 1988: 162.

*Type locality.* Vietnam, Cuc-Phuong, 400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring brooks (Oláh 1988).

*Distribution.* **Vietnam** (Thanh Hoa Province: Oláh 1988; Ha Tinh Province: Arefina-Armitage & Armitage 2015).

***Agapetus otoldal* Oláh, 2013**

*Agapetus otoldal* Oláh, 2013a: 99.

*Type locality.* Vietnam, Lam Dong Province, Dalat, Prenn Waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Agapetus rupestris* Mey, 1996**

*Agapetus rupestris* Mey, 1996a: 48.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2008).

***Agapetus zniachtl* Malicky, 1995**

*Agapetus zniachtl* Malicky, 1995a: 852.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Glossosoma ali* Mey, 1996**

*Glossosoma ali* Mey, 1996a: 47.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Glossosoma atestas* Malicky & Chantaramongkol 1992**

*Glossosoma atestas* Malicky & Chantaramongkol, 1992a: 13.

*Type locality.* India, Himachal Pradesh, Lag-Tal NW Kullu, 1500 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Bhutan** (Malicky 2007a), **China** (Morse & Yang 2005a; Yang, Sun & Morse 2016; Yang et al. 2005), **India** (Malicky & Chantaramongkol 1992a), **Nepal** (Malicky, 2018a; Malicky & Chantaramongkol 1992a; Mattern 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

*Remarks.* The male was re-described and female described by Morse & Yang (2005a).

***Glossosoma atitto* Malicky & Chantaramongkol 1992**

*Glossosoma atitto* Malicky & Chantaramongkol, 1992a: 14.

*Glossosoma atitto* [sic]; Yang et al. 2005: 458.

*Type locality.* Thailand, Doi Inthanon, Bang Khun Klang, 1300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky 2019; Bunlue et al. 2012).

*Distribution.* **Bhutan** (Malicky, 2007a), **China** (Yang, Sun & Morse 2016), **Thailand** (Bunlue et al. 2012; Malicky 2019; Malicky & Chantaramongkol 1992a), **Vietnam** (Lao Cai Province: Mey 1995, Mey 2005).

***Glossosoma caudatum* Martynov, 1931**

*Glossosoma caudatum* Martynov, 1931: 3.

*Type locality.* [China] Szechwan, Mount Omei, Shin Kai Si.

*Type depository.* Male holotype in USNM.

*Habitat.* Rivers (Morse & Yang 2005a).

*Distribution.* **Bhutan** (Malicky 2007a), **China** (Martynov 1931; Yang, Sun & Morse 2016; Yang et al. 2005), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky, 2018a; Mattern 2015), **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

*Remarks.* The male was re-described by Morse & Yang (2005a).

***Glossosoma elvisso* Malicky & Chantaramongkol, 1992**

*Glossosoma elvisso* Malicky & Chantaramongkol, 1992a: 13.

*Type locality.* Thailand, Khao Sok National-park.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1992a), **Vietnam** (Nghi An Province: Arefina-Armitage & Armitage 2015; Quang Nam Province: Arefina-Armitage & Armitage 2015).

***Glossosoma furcatum* Navás, 1932**

*Glossosoma furcatum* Navás, 1932a: 931.

*Type locality.* Tonkin [Vietnam], Chapa [Sa Pa].

*Type depository.* Female holotype in unknown depository institution.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Navás 1932a).

***Glossosoma jentumar* Malicky & Chantaramongkol, 1992**

*Glossosoma jentumar* Malicky & Chantaramongkol, 1992a: 13.

*Type locality.* Thailand, Doi Inthanon, 1600 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky 2019; Bunlue et al. 2012).

*Distribution.* **Laos** (Malicky 2010a), **Thailand** (Bunlue et al 2012a; Malicky 2019; Malicky & Chantaramongkol 1992a), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

***Glossosoma kamarasikam* Schmid, 1971**

*Glossosoma kamarasikam* Schmid, 1971: 625.

*Type locality.* India, Sikkim, Zomphuk.

*Type depository.* Male holotype in CNC.

*Habitat.* Rivers (Malicky 2017b).

*Distribution.* **India** (Schmid 1971), **Nepal** (Malicky 2017b), **Vietnam** (Lao Cai Province: Mey 2005a).

***Glossosoma malayanum* Banks, 1934**

*Glossosoma malayanum* Banks, 1934: 569.

*Type locality.* Malaysia, Malay Peninsula, Pahang, Fraser's Hill, 4000–4200 ft.

*Type depository.* Male syntypes (no type specimen selected in original publication) originated from the Selangor Museum, now in NMKL. A paratype is listed to be deposited in MCZ.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Bhutan** (Oláh 2016b), **Indonesia** (Malicky 2007b), **Laos** (Malicky 2010a), **Malaysia** (Banks 1934), **Myanmar** (Mey & Malicky 2021), **Thailand** (Bunlue et al. 2012), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

***Glossosoma rovidul* Oláh, 2013**

*Glossosoma rovidul* Oláh, 2013a: 101.

*Type locality.* Vietnam, Lao Cai Province, Sin Chai, Hoang Lien NP, Tram Ton, 1,900 m, 22.20941°N, 103.46197°E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Glossosoma tuvien* Oláh & Malicky, 2010**

*Glossosoma tuvien* Oláh & Malicky, 2010: 14.

*Type locality.* Vietnam, Lam Dong Province, Dalat, Monastery Balcony.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

### ***Padunia abwan* Malicky, 2009**

*Padunia abwan* Malicky, 2009a: 16.

*Type locality.* Vietnam, Na Hang, 160 km NWW Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009a).

### ***Padunia elvala* (Oláh, 2013)**

*Nepaloptila elvala* Oláh, 2013a: 102.

*Padunia elvala* (Oláh, 2013); Robertson & Holzenthal 2013: 36.

*Type locality.* Vietnam, Gia Lai-Kon Tum Province, Lo Xo Pass, 600 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province [Kon Tum Province]: Oláh 2013).

## **Goeridae Ulmer, 1903**

### ***Gastrocentrella unica* Ulmer, 1951**

*Gastrocentrella unica* Ulmer, 1951: 482.

*Goera solicur* Malicky & Chantaramongkol, 1992; Malicky 2013: 49.

*Type locality.* [Indonesia] Sumatra, Bandar Baru.

*Type depository.* Male holotype in ZMH.

*Habitat.* Tributaries (Malicky, Suwannarat & Laudee 2018). Streams with bottom of gravel and sand (Laudee & Prommi 2011).

*Distribution.* **Indonesia** (Ulmer 1951), **Thailand** (Laudee & Prommi 2011; Malicky & Chantaramongkol 1992b; Malicky, Suwannarat & Laudee 2018), **Vietnam** (Gia Lai Province: Armitage & Arefina 2003b. Tuyen Quang Province: Armitage & Arefina 2003b).

*Remarks.* The male and female were re-described by Armitage & Arefina (2003b). Later authors listed the species within *Goera* (e.g. Bunlue et al. 2012; Malicky 2010a). Due to the uniqueness of the male genitalia the genus *Gastrocentrella* is kept for the species till taxonomic revision has demonstrated differently.

### ***Gastrocentrides sumatranus* Ulmer, 1930**

*Gastrocentrides sumatranus* Ulmer, 1930: 475.

*Gastrocentrides evansi* Mosely, 1939; Malicky 2013: 49.

*Type locality.* Indonesia, Sumatra, Lampongs, Wai Lima/Indonesia, central Sumatra, Kota Baroe, Pangkalang.

*Type depository.* Male holotype in ZMH.

*Habitat.* Rivers (Armitage & Arefina-Armitage 2009). Rivers and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Brooks (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 2007b; Malicky, Ivanov & Melnitsky 2014; Ulmer 1930), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Myanmar** (Mosely 1939; Wityi, Nozaki & Fujino 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Dak Lak Province: Armitage & Arefina-Armitage 2009; Gia Lai Province: Armitage & Arefina-Armitage 2009; Nghe An Province: Armitage & Arefina-Armitage 2009).

*Remarks.* The type material, including 4 males from two different localities, was not defined in the publication by Ulmer (1930a).

### ***Goera arcuata* Yang & Armitage, 1996**

*Goera arcuata* Yang & Armitage, 1996: 555.

*Type locality.* China, Yunnan Province, He-kou-xian, stream 5 km N Nan-xi-hezhen, 300 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Rivers and river waterfalls, also dams and lakes (Armitage & Arefina 2003b).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Bac Kan Province: Armitage & Arefina 2003b; Gia Lai Province: Armitage &

Arefina 2003b; Lao Cai Province: Armitage & Arefina 2003b; Nghe An Province: Armitage & Arefina 2003b; Tuyen Quang Province: Armitage & Arefina 2003b).

***Goera fimbriata* Navás, 1932**

*Goera fimbriata* Navás, 1932b: 955.

*Type locality.* Tonkin [Vietnam], Chapa [Sa Pa].

*Type depository.* Female holotype, depository unknown.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Navás 1932b).

*Remarks.* Armitage & Arefina (2003a) explain the *Type locality* as Lao Cai Province, Chapa (=Sa Pa), Tonkin.

***Goera fissa* Ulmer, 1926**

*Goera fissa* Ulmer, 1926: 76.

*Goera altofissura* Hwang, 1957; Malicky 2013: 49.

*Type locality.* China, Kuangtung Province, Lo fau shan.

*Type depository.* Male lectotype in ZMH.

*Habitat.* Rivers and dam/lakes (Armitage & Arefina 2003a). Mountain streams (Ulmer 1926).

*Distribution.* **China** (Hwang 1957; Yang, Sun & Morse 2016), **Vietnam** (Bac Kan Province: Armitage & Arefina 2003b; Lao Cai Province: Armitage & Arefina 2003b; Mey 2005a; Tuyen Quang Province: Armitage & Arefina 2003b).

***Goera galli* Armitage & Arefina, 2003**

*Goera galli* Armitage & Arefina, 2003b: 106.

*Type locality.* Vietnam, Gia Lai Province, An Khe district, Dacklest River, 5.2 km NE Tram Lap on forest road.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Gia Lai Province: Armitage & Arefina 2003b).

***Goera hubleyi* Armitage & Arefina, 2003**

*Goera hubleyi* Armitage & Arefina, 2003b: 107.

*Type locality.* Vietnam: Nghe An Province, W of Con Cuong, Khe Moi Forestry Camp.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Armitage & Arefina 2003b).

***Goera kawamotonis* Kobayashi, 1987**

*Goera kawamotonis* Kobayashi, 1987: 24.

*Type locality.* Japan, Kawamoto, Kawamoto-machi, Ochi-gun, Shimane Pref., 100 m.

*Type depository.* Male holotype in KPMNH.

*Habitat.* Unknown.

*Distribution.* **Japan** (Kobayashi 1987; Nozaki & Nakamura 2007; Nozaki & Tanida 2006; Tanida & Kuranishi 2016; Tsuda & Akagi 1956), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016), **Vietnam** (Quang Nam Province: Armitage & Arefina-Armitage 2009).

*Remarks.* The male genitalia, larva and larval case was described as *Goera* sp. by Tsuda & Akagi (1956a). The male and female were re-described by Nozaki & Tanida (2006a).

***Goera mandana* Mosely, 1938**

*Goera mandana* Mosely, 1938: 490.

*Type locality.* India, Mt. Harriet, 1200 ft.

*Type depository.* Male holotype in NHM.

*Habitat.* Streams (Bunlue *et al.* 2012).

*Distribution.* **India** (Mosely 1938), **Laos** (Malicky 2010a), **Nepal** (Malicky 2006a; Mattern 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Bunlue *et al.* 2012), **Vietnam** (Lai Chau Province: Armitage & Arefina 2003b. Lao Cai Province: Mey 2005a).

***Goera meyi* Armitage & Arefina-Armitage, 2012**

*Goera meyi* Armitage & Arefina-Armitage, 2012b: 4.

*Type locality.* Vietnam, Quang Nam Province, Plato Tay Nguyen, Mt Ngoc Linh, 15°02'N, 107°59'E, 900-1400 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Armitage & Arefina-Armitage 2012).

***Goera monticolaria* Mey, 1997**

*Goera monticolaria* Mey, 1997b: 199.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a, Armitage & Arefina 2003b).

***Goera schefferae* Armitage & Arefina, 2003b**

*Goera schefferae* Armitage & Arefina, 2003b: 102.

*Type locality.* Vietnam: Nghe An Province, W of Con Cuong, Khe Moi Forestry Camp.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Armitage & Arefina 2003b).

***Goera tarumana* Malicky, 1978**

*Goera tarumana* Malicky, 1978: 165.

*Type locality.* Indonesia, Sumatra, Aek Taru,

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky 1978; Malicky 2007b), **Vietnam** (Gia Lai Province: Armitage & Arefina-Armitage 2009).

***Goera tricaisema* Malicky, 1995**

*Goera tricaisema* Malicky, 1995a: 869.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Goera uniformis* Banks, 1931**

*Goera uniformis* Banks, 1931a: 393.

*Goera tarumana* Malicky 1978; Malicky 2013: 49.

*Type locality.* [Thailand], Penin[sula]: Siam, Trang.

*Type depository.* Male holotype in MCZ.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Streams (Bunlue et al. 2012). Tributaries (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **Indonesia** (Malicky 1978; Malicky 2010a), **Malaysia** (Malicky 2010a), **Thailand** (Banks 1931a; Bunlue et al. 2012; Laudee & Prommi 2011; Malicky, Suwannarat & Laudee 2018; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Gia Lai Province: Armitage & Arefina-Armitage 2009; Arefina-Armitage & Armitage 2012b).

*Remarks.* The male was re-described by Arefina-Armitage & Armitage (2012b).

**Helicopsychidae Ulmer, 1906**

***Helicopsyche admata* Malicky & Chantaramongkol 1992**

*Helicopsyche admata* Malicky & Chantaramongkol, 1992a: 21.

*Type locality.* Thailand, Doi Inthanon, 1600 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1992a), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Helicopsyche azunensis* Scheffter & Johanson, 2001**

*Helicopsyche azunensis* Scheffter & Johanson, 2001: 14.

*Type locality.* Vietnam: Gia Lai, An Khe Dist, Tram Lap, Azun R, 2 km NW on trail from forestry building, 14°27'N, 108°33'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Rainforest edge to coffee plantation (Schefter & Johanson 2001).

*Distribution.* **Vietnam** (Gia Lai Province: Schefter & Johanson 2001).

***Helicopsyche azwudschgal* Malicky, 1995**

*Helicopsyche azwudschgal* Malicky, 1995a: 869.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a; Vinh Phuc Province: Malicky 1995a).

***Helicopsyche boniata* Malicky & Chantaramongkol, 1992**

*Helicopsyche boniata* Malicky & Chantaramongkol, 1992a: 22.

*Type locality.* Thailand, Phuket, Tonesai waterfall.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Arefina-Armitage & Armitage 2013). Waterfalls (Malicky & Chantaramongkol 1992a). Small rivers in forest (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Laos** (Malicky 2010a), **Thailand** (Arefina-Armitage & Armitage 2013; Malicky & Chantaramongkol 1992a; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021; Vinh Phuc Province: Arefina-Armitage & Armitage 2013).

***Helicopsyche botosaneanui* Arefina-Armitage & Armitage, 2013**

*Helicopsyche botosaneanui* Arefina-Armitage & Armitage, 2013: 2.

*Type locality.* Vietnam, Ha Tinh Province, Huong Son, 900 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Arefina-Armitage & Armitage 2013; Ha Tinh Province: Arefina-Armitage & Armitage 2013).

***Helicopsyche dacklestensis* Schefter & Johanson, 2001**

*Helicopsyche dacklestensis* Schefter & Johanson, 2001: 14.

*Type locality.* Vietnam: Gia Lai, An Khe Dist, Dacklest River, 5.2 km NE Tram Lap on forest road, 200 m upstream bridge, 900 m, 14°24'N, 108°33'E.

*Type depository.* Male holotype in ROM.

*Habitat.* River in primary rainforest plantation (Schefter & Johanson 2001).

*Distribution.* **Vietnam** (Gia Lai Province: Schefter & Johanson 2001).

***Helicopsyche inustitata* Arefina-Armitage & Armitage, 2013**

*Helicopsyche inustitata* Arefina-Armitage & Armitage, 2013: 6.

*Type locality.* Vietnam, Nghe An Province, W of Con Cuong, Khe Moi Forestry Camp.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Arefina-Armitage & Armitage 2013).

***Helicopsyche khemoiensis* Schefter & Johanson, 2001**

*Helicopsyche khemoiensis* Schefter & Johanson, 2001: 10.

*Type locality.* Vietnam: Nghe An, West of Con Cuong, Khe Moi Forestry Camp.

*Type depository.* Male holotype in ROM.

*Habitat.* River margins and streams in tropical forest (Schefter & Johanson 2001).

*Distribution.* **Vietnam** (Nghe An Province: Schefter & Johanson 2001).

***Helicopsyche laminata* Johanson & Pham, 2012**

*Helicopsyche laminata* Johanson & Pham, 2012: 7.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, stream near Ngoc Thanh Village, Melinh Station for Biodiversity, 21°23' 28.2''N, 105°42'46.7''E, 233 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Small moderately fast running streams with mixed bottoms in lowland rainforest (Johanson & Pham 2012).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson & Pham 2012).

***Helicopsyche meander* Johanson & Pham, 2012**

*Helicopsyche meander* Johanson & Pham, 2012: 5.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, stream near Ngoc Thanh Village, Melinh Station for Biodiversity, 21°23' 28.2''N, 105°42'46.7''E, 233 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Small moderately fast running streams with mixed bottoms in lowland rainforest (Johanson & Pham 2012).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson & Pham 2012).

***Helicopsyche melina* Johanson & Pham, 2012**

*Helicopsyche melina* Johanson & Pham, 2012: 2.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, stream near Ngoc Thanh Village, Melinh Station for Biodiversity, 21°23' 28.2''N, 105°42'46.7''E, 233 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Small moderately fast running streams with mixed bottoms in lowland rainforest (Johanson & Pham 2012).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson & Pham 2012).

***Helicopsyche pathoumthongi* Johanson & Malm, 2007**

*Helicopsyche pathoumthongi* Johanson & Malm, 2007: 19.

*Type locality.* Laos, Luang Namtha Prov.: Nam Ha NBCA, Lakkhammai Village, Niam Leung stream, 21.152°N, 101.355°E, 749 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Johanson & Malm 2007).

*Distribution.* **Laos** (Johanson & Malm 2007), **Vietnam** (Nghe An Province: Arefina-Armitage & Armitage 2013).

***Helicopsyche verrucaspinosa* Arefina-Armitage & Armitage, 2013**

*Helicopsyche verrucaspinosa* Arefina-Armitage & Armitage, 2013: 4.

*Type locality.* Vietnam, Thua Thien-Hue Province, Nam Dong District, Huong Loc commune, ca 9 km SE Khe Tre.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage 2013; Thua Thien-Hue Province: Arefina-Armitage & Armitage 2013).

**Hydrobiosidae Ulmer, 1905**

***Apsilochorema corymbosum* Mey, 1999**

*Apsilochorema corymbosum* Mey, 1999a: 176.

*Type locality.* **Vietnam**, Sa Pa, Fan Si Pan.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1999a, Mey 2005).

***Apsilochorema hrasvam* Schmid, 1970**

*Apsilochorema hrasvam* Schmid, 1970a: 270.

*Type locality.* India, Assam, Manipour, Sirohi Kashong.

*Type depository.* Male holotype in CNC.

*Habitat.* Unknown.

*Distribution.* **India** (Schmid 1970a), **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

***Apsilochorema nigrum* (Navás, 1932)**

*Agapetus niger* Navás, 1932a: 932.

*Apsilochorema nigrum* (Navás, 1932); Ross 1956: 164.

*Apsilochorema unculatum* Schmid, 1970; Mey, 1999a: 180.



*Type locality.* Tonkin [Vietnam], Chapa [Sa Pa].

*Type depository.* Female holotype in MNHN.

*Habitat.* Rivers (Shan, Yang & Sun 2004).

*Distribution.* **China** (Yang, Sun & Morse 2016; Schmid 1070a), **Vietnam** (Lao Cai Province: Mey 1999a; Mey 2005; Navás 1932a).

*Remarks.* Larva described by Shan, Yang & Sun (2004a).

#### ***Apsilochorema tonkinense* Mey, 1998**

*Apsilochorema tonkinensis* Mey, 1998a: 6.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 2300 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

#### ***Apsilochorema utchtchunam* Schmid, 1970**

*Apsilochorema utchtchunam* Schmid, 1970a: 267.

*Apsilochorema malickyi* Schmid, 1989; Malicky 2013: 42.

*Type locality.* India, Manipour, Chingsao.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams (Bunlue et al. 2012). Streams (Malicky 2006a).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Schmid 1970a), **Laos** (Malicky 2010a), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky, 2018a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Schmid 1989), **Vietnam** (Lao Cai Province: Mey 2005).

#### ***Apsilochorema vaneyam* Schmid, 1970**

*Apsilochorema vaneyam* Schmid, 1970a: 262.

*Type locality.* India, Assam, NEFA, Kameng Frontier Division, Chug.

*Type depository.* Male holotype in CNC.

*Habitat.* Unknown.

*Distribution.* **India** (Schmid 1970a), **Nepal** (Mattern 2015), **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

### **Hydropsychidae Curtis, 1835**

#### ***Aethaloptera malickyi* Oláh, 2018**

*Aethaloptera malickyi* Oláh, 2018: 10.

*Type locality.* Vietnam, Bac Thai Province [Thai Nguyen Province], Thain Guyen, Song Cau River.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Oláh 2018. Thai Nguyen Province: Oláh 2018).

#### ***Aethaloptera sexpunctata* (Kolenati, 1859)**

*Setodes sexpunctata* Kolenati, 1859: 266.

*Polymorphanus sexpunctatus* (Kolenati, 1859); Brauer, 1868: 263.

*Aethaloptera sexpunctata* (Kolenati, 1859); Ulmer 1907b: 19.

*Type locality.* India.

*Type depository.* Male holotype in NHMW.

*Habitat.* Running water at low altitude (36 m and below) with bottom of gravel and sand (Laundee & Prommi 2011a).

*Distribution.* **Burma** (Oláh 2018; Wityi, Nozaki & Fujino 2015), **India** (Betten 1909; Ghosh & Chaudhury 1998; Kolenati 1859; Oláh 2018), **Indonesia** (Malicky 2007b), **Laos** (Oláh 2018; Malicky 2010a), **Malaysia** (Malicky 2010a), **Myanmar** (Mey & Malicky 2021), **Thailand** (Laundee & Prommi 2011a; Nuntakwang, Chantaramongkol & Courtney 2007; Oláh 2018), **Vietnam** (Unspecified province: Nuntakwang, Chantaramongkol & Courtney 2007).

*Remarks.* Barnard (1980a) synonymized *Aethaloptera dyakana* Banks, 1920 and *Aethaloptera sexpunctata* (Kolenati, 1859) but the two names were considered valid by Oláh (2018a). Barnard (1980a) synonymized *Aethaloptera punctata* (Banks, 1938) and *Aethaloptera sexpunctata* (Kolenati, 1859), but the two names were considered valid by Oláh (2018a). The new records given by Barnard (1980a) were excluded due to uncertainty of what species they belonged to. The species was listed from Burma by Ghosh & Chaudhury 1998 but without collecting data.

***Amphipsyche bifasciata* Navás, 1931**

*Amphipsyche bifasciata* Navás, 1931b: 8.

*Type locality.* China, meridionale.

*Type depository.* Male holotype is lost according to Barnard (1984a).

*Habitat.* Large streams and rivers (Hoang, Tanida & Bae 2005).

*Distribution.* **China** (Navás 1931b), **Vietnam** (Nghe An Province: Hoang, Tanida & Bae 2005).

*Remarks.* The male and female were re-described by Hoang, Tanida & Bae (2005a). The male was re-described by Barnard (1984a).

***Amphipsyche gratiosa* Navás, 1922**

*Amphipsyche gratiosa* Navás, 1922: 62.

*Amphipsyche gratiosa* [sic]; Oláh, 2013a: 80.

*Type locality.* Tonquin [Northern Vietnam], Hag Song.

*Type depository.* Male holotype in Navás collection, probably MZBS.

*Habitat.* Large streams and rivers (Hoang, Tanida & Bae 2005). Small rivers (Malicky, Ivanov & Melnitsky 2020). Streams (Peumwarunyoo & Prommi 2013). Waterfalls (Malicky 1998b).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Yang, Sun & Morse 2016; Yang *et al.* 2005), **Laos** (Malicky 1998b; Oláh, Oláh & Li 2020), **Thailand** (Malicky, Ivanov & Melnitsky 2020; Nuntakwang, Chantaramongkol & Courtney 2007; Peumwarunyoo & Prommi 2013), **Vietnam** (Dak Lak Province: Hoang, Tanida & Bae 2005. Dong Nai Province: Malicky 1998b; Oláh 2013. Lam Dong Province: Oláh 2013. Nghe An Province: Hoang, Tanida & Bae 2005. Unknown province: Navás 1922).

*Remarks.* Female described by Malicky (1998b). The larva was described by Peumwarunyoo & Prommi (2013a).

***Amphipsyche meridiana* Ulmer, 1909**

*Amphipsyche meridiana* Ulmer, 1909: 134.

*Amphipsyche indica* Martynov, 1935; Barnard 1984: 106.

*Amphipsyche nirvana* Banks, 1913b; Barnard 1984: 106.

*Amphipsyche propinqua* Ulmer, 1927; Barnard 1984: 106.

*Amphipsyche sigmosa* Navás, 1935; Barnard 1984: 107.

*Amphipsyche tricalcarata* Martynov, 1935; Schmid 1958: 107.

*Amphipsyche vedana* Banks, 1913b; Barnard 1984: 106.

*Type locality.* Indonesia, Java, Batavia.

*Type depository.* Female lectotype selected by Barnard (1984), in RMNH.

*Habitat.* Large streams and rivers (Hoang, Tanida & Bae 2005). Streams (Oláh 2013). Running water at moderate to low altitude (220 m and below) with mixed bottom of bedrock, boulder, cobble, gravel, sand and clay (Laundee & Prommi 2011a). Larvae inhabit stony river affected by power regulation constructions, water temperatures around 26–31°C, and pH around 7.3–8.1 (Prommi 2011a). Small streams in agricultural and rural environments (Cheunbarn & Chantaramongkol 2005). Dams (Malicky 2006a). Rivers (Malicky, Melnitsky & Ivanov 2014). Lakes (Malicky 2018a). Larvae have been sampled from dam outlets (Peumwarunyoo & Prommi 2013). Shallow streams with wide riparian zone below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **Cambodia** (Ito & Kuhara 2007; Malicky, Melnitsky & Ivanov 2014; Ulmer 1927), **China** (Yang *et al.* 2005; Yang, Sun & Morse 2016), **India** (Banks 1913b; Ghosh & Chaudhury 1998; Malicky 1998b; Martynov 1935a; Navás 1935), **Indonesia** (Malicky 1998b; Malicky 2007b; Ulmer 1909; Ulmer 1910), **Laos** (Nuntakwang, Chantaramongkol & Courtney 2007), **Malaysia** (Malicky 1998b; Malicky, Ivanov & Melnitsky 2014), **Nepal** (Malicky 1998b; Malicky 2006a; Malicky 2018a; Mattern 2015), **Pakistan** (Malicky 1998b), **Sri Lanka** (Malicky 1998b), **Thailand** (Cheunbarn & Chantaramongkol 2005; Laundee & Prommi 2011; Malicky 1998b; Peumwarunyoo & Prommi 2013; Prommi 2011; Prommi & Thamsenanupap 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Bac Kan Province: Oláh 2013. Dak Lak Province: Hoang, Tanida & Bae 2005. Dong Nai Province: Malicky

1998b; Oláh 2013. Lam Dong Province: Oláh 2013).

*Remarks.* Cheunbarn & Chantaramongkol (2005a) discussed the value of the species as an indicator species. The male and female were re-described by Ito & Kuhara (2007a).

***Cheumatopsyche anthracias* Mey, 1996**

*Cheumatopsyche anthracias* Mey, 1996a: 64.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Mey & Malicky 2021), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

***Cheumatopsyche banksi* Mosely, 1942**

*Cheumatopsyche banksi* Mosely, 1942: 351.

*Type locality.* China, Foochow.

*Type depository.* Male holotype in NHM.

*Habitat.* Running water at low altitude (10 m and below) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Shallow streams with wide riparian zone below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **China** (Mosely 1942), **Indonesia** (Malicky 2007b), **Nepal** (Malicky 2006a; Mattern 2015), **Thailand** (Laudee & Prommi 2011; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Thamsenanupap 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* The male genitalia were re-described by Malicky (1997a).

***Cheumatopsyche caieta* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche caieta* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1032.

*Type locality.* Thailand, Huai Nam Dang, 1690 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Streams (Bunlue et al. 2012). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Laos** (Malicky 2010a; Laudee & Malicky 2017), **Thailand** (Bunlue et al. 2012; Malicky 1997a), **Vietnam** (Son La Province: Oláh, Johanson & Barnard 2008; Ha Noi: Oláh, Johanson & Barnard 2008; Vinh Phuc Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche carna* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche carna* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1024.

*Cheumatopsyche rienga* Oláh & Johanson, 2008; Malicky 2013: 48.

*Type locality.* Thailand, Tham Than Lod NP.

*Type depository.* Male holotype in MPC.

*Habitat.* Canal in mining, agricultural and forested area, with slightly basic water on artificial bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Laos** (Oláh, Johanson & Barnard 2008), **Thailand** (Malicky 1997a; Prommi, Peumwarunyoo & Mansukphol 2016; Seetapan & Prommi 2012), **Vietnam** (Hoa Binh Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche ceres* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche ceres* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1024.

*Type locality.* Thailand, Doi Inthanon, Bang Khun Klang, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Nepal** (Malicky 2006a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Malicky 1997a; Thapanya, Chantaramongkol & McQuillan

2005), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* The male was re-described by Malicky (2007a).

***Cheumatopsyche charites* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche charites* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1021.

*Cheumatopsyche recta* Thawarorit, Sangpradub, & Morse, 2013; Malicky, 2014c: 51.

*Type locality.* Thailand, Nam Nao NP, 800 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Streams (Thawarorit, Sangpradub & Morse 2013). Streams (Bunlue et al. 2012). Small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Nuntakwang, Chantaramongkol & Courtney 2007), **Laos** (Oláh, Johanson & Barnard 2008), **Malaysia** (Oláh & Johanson 2008; Oláh, Johanson & Barnard 2008), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011; Malicky 1997a; Malicky, Ivanov & Melnitsky 2020; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Chantaramongkol 2005; Thawarorit, Sangpradub & Morse 2013), **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008. Bac Thai Province: Oláh, Johanson & Barnard 2008. Hoa Binh Province: Oláh, Johanson & Barnard 2008. Lam Dong Province: Oláh, Johanson & Barnard 2008. Thanh Hoa Province: Oláh, Johanson & Barnard 2008. Vinh Phuc Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche chrysothemis* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche chrysothemis* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1030.

*Cheumatopsyche triangula* Thawarorit, Sangpradub & Morse, 2013; Malicky, 2014c: 51.

*Type locality.* Malaysia, Hulu, Perak, belum Expedition, Base Camp.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Thawarorit, Sangpradub & Morse 2013). Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Rivers with waterfalls (Melnitsky & Malicky 2008). Streams (Bunlue et al. 2012). Rivers and waterfalls on bare rock (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Malaysia** (Malicky 1997a), **Thailand** (Bunlue et al. 2012; Malicky 1997a; Malicky, Ivanov & Melnitsky 2020; Melnitsky & Malicky 2008; Prommi, Peumwarunyoo & Mansukphol 2016; Nuntakwang, Chantaramongkol & Courtney 2007; Thawarorit, Sangpradub & Morse 2013), **Vietnam** (Dong Nai Province: Malicky 1997a).

***Cheumatopsyche copia* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche copia* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1031.

*Type locality.* Thailand, Botanischer Garten Sirikit, 12 km W Mae Rim, 700 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue et al. 2012). Above waterfalls (Malicky, Suwannarat & Laundee 2018). Streams (Oláh, Johanson & Barnard 2008). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Laos** (Malicky 2010a), **Malaysia** (Malicky 1997a; Oláh, Johanson & Barnard 2008), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011; Malicky 1997a; Malicky, Suwannarat & Laundee 2018; Nuntakwang, Chantaramongkol & Courtney 2007; Seetapan & Prommi

2012), **Vietnam** (Kon Tum Province: Oláh & Johanson 2008).

***Cheumatopsyche criseyde* Malicky & Chantaramongkol, 1997**

*Cheumatopsyche criseyde* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1028.

*Cheumatopsyche kim* Oláh & Johanson, 2008; Malicky 2013: 49.

*Type locality.* Thailand, Doi Inthanon, Nebenbach des Mae Klang.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol (2016a). Tributaries (Malicky 1997a). Streams (Bunlue et al. 2012). Large streams with stone and rock partly covered by mosses, waterfalls (Malicky, Ivanov & Melnitsky 2020). Streams (Oláh, Johanson & Barnard 2008). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **China** (Malicky 2017a), **Laos** (Malicky 2017a; Oláh, Johanson & Barnard 2008), **Nepal** (Malicky 2018a), **Thailand** (Bunlue et al. 2012; Malicky 1997a; Malicky 2017a; Malicky, Ivanov & Melnitsky 2020; Prommi, Peumwarunyoo & Mansukphol 2016; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008. Hoa Binh Province: Oláh, Johanson & Barnard 2008. Lam Dong Province: Oláh, Johanson & Barnard 2008. Son La Province: Oláh, Johanson & Barnard 2008. Thanh Hoa Province: Oláh, Johanson & Barnard 2008).

*Remarks.* The male genitalia were re-described by Malicky (2017a).

***Cheumatopsyche dhanikari* Malicky, 1979**

*Cheumatopsyche dhanikari* Malicky, 1979: 100.

*Type locality.* India, Süd-Andaman, Nayachul-Fluß bei Mongelutonge.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Waterfalls on bare rock (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **India** (Malicky 1979; Oláh & Johanson 2008), **Laos** (Malicky 2017a), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2017b), **Thailand** (Malicky 1997a; Malicky 2017a; Malicky, Ivanov & Melnitsky 2020; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Chantaramongkol 2005; Prommi, Peumwarunyoo & Mansukphol 2016; Sangpradub 2017), **Vietnam** (Vinh Phuc Province: Malicky 1997a).

*Remarks.* The male was re-described by Malicky (1997a) and Malicky (2017a).

***Cheumatopsyche doan* Oláh & Johanson, 2008**

*Cheumatopsyche doan* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 52.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh, Johanson & Barnard 2008).

*Distribution.* **Laos** (Malicky 2010a), **Vietnam** (Lam Dong Province: Oláh, Johanson & Barnard 2008).

*Remarks.* The male forewing pattern was illustrated by Malicky (2010a).

***Cheumatopsyche dubitans* Mosely, 1942**

*Cheumatopsyche dubitans* Mosely, 1942: 352.

*Type locality.* China, Foochow.

*Type depository.* Male holotype in NHM.

*Habitat.* Artificial canal in village with slightly basic running water on bottom of concrete, gravel and woody debris (Prommi, Peumwarunyoo & Mansukphol 2016). Rivers and streams (Oláh, Johanson & Barnard 2008).

*Distribution.* **China** (Mosely 1942; Yang et al. 2005; Yang, Sun & Morse 2016), **India** (Oláh, Vinçon & Johanson, 2021/22), **Laos** (Malicky 1997a; Oláh, Johanson & Barnard 2008), **Thailand** (Malicky 1997a; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi, Peumwarunyo & Mansukphol 2016; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008).

*Remarks.* The male body was shortly described by Malicky (1997a). The male forewing pattern was illustrated by Malicky (2010a).

***Cheumatopsyche ecsedii* Oláh & Johanson, 2008**

*Cheumatopsyche ecsedii* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 133.

*Type locality.* Vietnam, Quang Nam Da Nang Province, Lo Xo Pass, 600 m, 16-ii-2006, light, Oláh Jr & Z Ecsedi.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Da Nang Province [Quang Nam Province]: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche ehi* Malicky, 2009**

*Cheumatopsyche ehi* Malicky, 2009a: 39.

*Type locality.* Laos, Hua Phan Prov., Mt. Phou Pan, 20°12'N, 104°01'E, 1500-1900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Laos** (Malicky 2009a), **Vietnam** (Tuyen Quang Province: Malicky 2009a).

***Cheumatopsyche fansipangensis* Mey, 1996**

*Cheumatopsyche fansipangensis* Mey, 1996a: 64.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100-2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Bhutan** (Malicky 2017a), **China** (Malicky 2015a), **Nepal** (Malicky 2017a; Malicky 2017b; Malicky 2018a), **Thailand** (Malicky

2017a), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a, Malicky 2017a).

*Remarks.* The male was re-described by Malicky (2015a) and Malicky (2017a).

***Cheumatopsyche hoasena* Oláh & Johanson, 2008**

*Cheumatopsyche hoasena* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 88.

*Type locality.* Vietnam, Hanoi, West Lake.

*Type depository.* Male holotype in OPC.

*Habitat.* Lake (Oláh, Johanson & Barnard 2008).

*Distribution.* **Vietnam** (Ha Noi: Oláh, Johanson & Barnard 2008).

*Remarks.* The species was collected from a lake *Habitat*, but it is possibly not the species *Habitat*.

***Cheumatopsyche holzschuhi* Malicky, 1997**

*Cheumatopsyche holzschuhi* Malicky, 1997a: 1019.

*Type locality.* Vietnam, Tam Dao, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008. Vinh Phuc Province: Malicky 1997a; Oláh, Johanson & Barnard 2008).

***Cheumatopsyche junolahi* Oláh & Johanson, 2008**

*Cheumatopsyche junolahi* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 150.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 700 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche kysonia* Oláh & Johanson, 2008**

*Cheumatopsyche kysonia* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 136.

*Type locality.* Vietnam, Ha Son Binh Province, Hoa Binh, 12 km to Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh, Johanson & Barnard 2008; Thanh Hoa Province: Oláh, Johanson & Barnard 2008).

### ***Cheumatopsyche langsonina* Navás, 1933**

*Cheumatopsyche langsonina* Navás, 1933a: 98.

*Type locality.* China, Lampson.

*Type depository.* Female holotype in MNHN.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Unspecified province: Armitage et al. 2005).

*Remarks.* The species was listed from Vietnam by Armitage et al. (2005) without collection data. The species was considered *incertae sedis* by Oláh, Johanson & Barnard (2008).

### ***Cheumatopsyche lolo* Oláh & Johanson, 2008**

*Cheumatopsyche lolo* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 138.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh, Johanson & Barnard, 2008).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh, Johanson & Barnard 2008).

### ***Cheumatopsyche lucida* (Ulmer, 1907)**

*Hydropsychodes lucida* Ulmer, 1907a: 29.

*Cheumatopsyche lucida* (Ulmer, 1907); Martynov 1935a: 177.

*Cheumatopsyche cava* Thawarorit, Sangpradub & Morse, 2013; Malicky 2014c: 51.

*Type locality.* Indonesia, Java, Semarang.

*Type depository.* Male holotype (or male and female syntypes) in RMNH.

*Habitat.* Waterfall (Thawarorit, Sangpradub & Morse 2013). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya,

Bunlue & Chantaramongkol 2013). Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Tributaries (Malicky, Suwannarat & Laudee 2018). Rivers, including slow-flowing warm water rivers, and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Rivers (Malicky, Ivanov & Melnitsky 2020). Rivers (Malicky, Melnitsky & Ivanov 2016). Waterfall in river (Laudee & Malicky 2017). Larvae found on the surface of stones in creeks (Laudee & Prommi (2016).

*Distribution.* **India** ("Malicky 2014b"), **Indonesia** (Malicky 2007b; Malicky, Ivanov & Melnitsky 2014; Malicky, Melnitsky & Ivanov 2016; Ulmer 1907a), **Laos** (Malicky 2010a; Laudee & Malicky 2017), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Philippines** (Malicky 2010c), **Thailand** (Malicky, Ivanov & Melnitsky 2020; Prommi, Peumwarunyoo & Mansukphol 2016; Thapanya, Bunlue & Chantaramongkol 2013; Thawarorit, Sangpradub & Morse 2013), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021).

*Remarks.* The larva was described by Laudee & Prommi (2016). Variation in male morphology discussed by Malicky (1997a). Malicky (2010c) list this species from Thailand, Vietnam and Indonesia, but did not list collecting data.

### ***Cheumatopsyche meo* Oláh & Johanson, 2008**

*Cheumatopsyche meo* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 32.

*Type locality.* Vietnam, Son La Province, Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh, Johanson & Barnard 2008).

### ***Cheumatopsyche meyi* Malicky, 1997**

*Cheumatopsyche meyi* Malicky, 1997a: 1019.

*Type locality.* Vietnam, Tam Dao, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1997a).

***Cheumatopsyche nigrescens* (Navás, 1932)**

*Ulmeria nigrescens* Navás, 1932a: 941.  
*Cheumatopsyche nigrescens* (Navás, 1932); Navás 1933a: 98.

*Type locality.* Tonkin, Hanoi.

*Type depository.* Female holo*Type depository* institution unknown.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Noi Province: Navás 1932a).

***Cheumatopsyche nohondoan* Oláh & Johanson, 2008**

*Cheumatopsyche nohondoan* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 60.

*Type locality.* Vietnam, Quang Nam Da Nang Province, Lo Xo Pass.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Da Nang Province [Quang Nam Province]: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche processuata* (Martynov, 1927)**

*Hydropsyche processuata* Martynov, 1927: 190.  
*Cheumatopsyche processuata* (Martynov, 1927); Martynov, 1934: 290.

*Type locality.* North Persia [Iran], Shellali.

*Type depository.* Holotype originally probably deposited in ZIN, but now missing (Oláh, Vinçon, Johanson 2021).

*Habitat.* Unknown.

*Distribution.* **India** (Oláh & Johanson 2008; Oláh, Johanson & Barnard 2008), **Iran** (Martynov 1927; Mirmoayedi & Malicky 2002), **Myanmar** (Oláh, Johanson & Barnard 2008; Wityi, Nozaki & Fujino 2015), **Pakistan** (Oláh & Johanson 2008), **Turkestan** (Sipahiler 2005), **Turkey** (Darilmaz & Salur 2015), **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008. Ha Noi:

Oláh, Johanson & Barnard 2008. Thai Nguyen Province: Oláh, Johanson & Barnard 2008).

*Remarks.* The male was re-described by Malicky 2013.

***Cheumatopsyche quangchua* Oláh, Vinçon & Johanson, 2021**

*Cheumatopsyche quangchua* Oláh, Vinçon & Johanson, 2021: 132.

*Type locality.* Vietnam, Bac Kan Province, Cho Moi District, Quang Chu Village.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh, Vinçon & Johanson 2021).

***Cheumatopsyche saplaca* Oláh & Johanson, 2008**

*Cheumatopsyche saplaca* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 37.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche simayorum* Oláh & Johanson, 2008**

*Cheumatopsyche simayorum* Oláh & Johanson, 2008: 182.

*Type locality.* Vietnam, Gia Lai Contum Province [Kon Tum Province], Lo Xo Pass, 1100 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Kon Tum Province: Oláh & Johanson 2008).

***Cheumatopsyche songbua* Oláh & Johanson, 2008**

*Cheumatopsyche songbua* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 139.



*Type locality.* Vietnam, Thanh Hoa Province, Cuc Phuong National Park, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh, Johanson & Barnard 2008. Hoa Binh Province: Oláh, Johanson & Barnard 2008. Thanh Hoa Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche songda* Oláh & Johanson, 2008**

*Cheumatopsyche songda* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 141.

*Type locality.* Vietnam, Ha Son Binh Province, Hoa Binh, 12 km to Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh, Johanson & Barnard 2008).

***Cheumatopsyche tamda* Oláh, Vinçon & Johanson, 2021**

*Cheumatopsyche quangchua* Oláh, Vinçon & Johanson, 2021: 134.

*Type locality.* Vietnam, Tamdao, 21°28'16.1" N, 105°33'55.6"E, 200 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh, Vinçon & Johanson 2021).

***Cheumatopsyche tincta* (Navás, 1932)**

*Ulmeria tincta* Navás, 1932a: 943.

*Cheumatopsyche tincta* (Navás, 1932); Navás 1933a: 98.

*Type locality.* Tonkin [Vietnam], Hanoi.

*Type depository.* Male holotype depository institution unknown.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Noi Province: Navás 1932a).

***Cheumatopsyche zao* Oláh & Johanson, 2008**

*Cheumatopsyche zao* Oláh & Johanson, 2008 in Oláh, Johanson & Barnard 2008: 145.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams and waterfalls (Oláh, Johanson & Barnard 2008).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh, Johanson & Barnard 2008).

***Diplectrona aligmada* Oláh, 2013**

*Diplectrona aligmada* Oláh, 2013a: 68.

*Type locality.* Vietnam, Lam Dong Province, Dalat, Ta Nung Valley.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Diplectrona aurovittata* (Ulmer, 1906)**

*Hydromanicus aurovittatus* Ulmer, 1906: 80.

*Diplectrona aurovittata* (Ulmer, 1906); Ulmer 1928: 317.

*Type locality.* Indonesia, Java, Preanger, 5000 ft.

*Type depository.* Male holotype in RMNH.

*Habitat.* Streams (Bunlue et al. 2012). Running water (Malicky, Ivanov & Melnitsky 2014).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2002; Malicky 2007b; Malicky et al. 2011; Malicky, Ivanov & Melnitsky 2014; Malicky, Melnitsky & Ivanov 2016; Ulmer 1906), **Laos** (Malicky 2002), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Thailand** (Bunlue et al. 2012; Malicky 2002; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Vinh Phuc Province: Malicky 2002).

*Remarks.* The male was re-described by Malicky (2002a).

***Diplectrona daotama* Oláh, Vinçon & Johanson, 2021**

*Diplectrona burha* Schmid, 1961; Malicky 2002: 1205. *Misidentification.*

*Diplectrona daotama* Oláh, Vinçon & Johanson, 2021: 34.

*Type locality.* Vietnam, Tam Dao, 21°27' 40.4"N, 105°38'33.7"E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2002).

*Remarks.* The species was illustrated by Malicky (2002a).

#### ***Diplectrona erinya* Malicky, 2002**

*Diplectrona erinya* Malicky, 2002: 1207.

*Type locality.* Vietnam: Tam Dao.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2002).

#### ***Diplectrona eurydike* Malicky & Chantaramongkol, 2002**

*Diplectrona eurydike* Malicky & Chantaramongkol, 2002 in Malicky, 2002: 1207.

*Type locality.* Thailand, Huai Nam Ru, 1400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Small waterfall (Oláh 2013). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky 2002), **Vietnam** (Hoa Binh Province: Oláh 2013; Quang Tri Province: Oláh 2013).

#### ***Diplectrona fama* Malicky, 2002**

*Diplectrona fama* Malicky, 2002: 1208.

*Type locality.* Vietnam, Tam Dao, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Malicky 2002; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Malicky 2002).

#### ***Diplectrona fansipanella* Mey, 1998**

*Diplectrona fansipanella* Mey, 1998a: 11.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Laos** (Malicky 2010a), **Vietnam** (Lao Cai Province: Mey 1998a).

#### ***Diplectrona flavospilota* Mey, 1998**

*Diplectrona flavospilota* Mey, 1998a: 11.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a; Vinh Phuc Province: Malicky 2002).

*Remarks.* Male re-described by Malicky (2002a).

#### ***Diplectrona hasada* Oláh, 2013**

*Diplectrona hasada* Oláh, 2013a: 70.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Duchma stream, spring area.

*Type depository.* Male holotype in OPC.

*Habitat.* Springs (Oláh 2013).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

#### ***Diplectrona joannisi* Navás, 1932**

*Diplectrona ioannisi* Navás, 1932a: 944.

*Type locality.* Tonkin [Vietnam], Cha pa [Sa Pa] (Gételot).

*Type depository.* Male holotype in MNHN.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Laos** (Malicky 2010a), **Malaysia** (Malicky 2002), **Thailand** (Bunlue et al. 2012; Malicky 2002; Nuntakwang, Chantaramongkol & Courtney, 2007), **Vietnam** (Lao Cai Province: Malicky 2002, Mey 2005a, Navás 1932a).

*Remarks.* Male lectotype designated by Mey (1998a: 15). The male was re-described by Mey (1998a) and Malicky (2002a).

***Diplectrona kismada* Oláh, 2013**

*Diplectrona kismada* Oláh, 2013a: 71.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh 2013).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Diplectrona mada* Oláh, 2013**

*Diplectrona mada* Oláh, 2013a: 72.

*Type locality.* Vietnam, Tam Dao National Park, Tam Dao City, 1,300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

***Diplectrona romada* Oláh, 2013**

*Diplectrona romada* Oláh, 2013a: 74.

*Type locality.* Vietnam, Lam Dong Province, Dalat, Prennn waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Small waterfall (Oláh 2013).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Diplectrona sotet* Oláh, 2013**

*Diplectrona sotet* Oláh, 2013a: 75.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh 2013).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Diplectrona tamdaophila* Mey, 1998**

*Diplectrona tamdaophila* Mey, 1998a: 15.

*Type locality.* Vietnam, Tam Dao, 900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams, brooks and springs (Oláh 2013; Oláh, Vinçon & Johanson 2021). River (Oláh, Oláh & Li 2020; Oláh, Vinçon & Johanson 2021).

*Distribution.* **China** (Oláh, Oláh & Li 2020), **Vietnam** (Lao Cai Province: Mey 1998a. Vinh Phuc Province: Mey 1998a, Oláh 2013; Oláh, Vinçon & Johanson 2021).

***Hydromanicus buenningi* Ulmer, 1907**

*Hydromanicus buenningi* Ulmer, 1907a: 25.

*Macronema moestum* Navás, 1932; Malicky, 1998a: 778.

*Type locality.* Tonkin, Montes Mauson [Vietnam, Lang Son Province]

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lang Son Province: Ulmer 1907a. Vinh Phuc Province: Malicky 1998a, Navás 1932a).

***Hydromanicus calyx* Genco, Morse, Caterino, Murray-Stoker & Pham, 2020**

*Hydromanicus calyx* Genco, Morse, Caterino, Murray-Stoker & Pham, 2020: 85.

*Type locality.* Vietnam, Bach Ma National Park, Pheasant Falls and its tributary, 16.2287°N, 107.8486°E, 159 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams (Genco et al. 2020).

*Distribution.* **Vietnam** (Thua Thien Hue Province: Genco et al. 2020).

***Hydromanicus demden* Oláh & Johanson, 2008**

*Hydromanicus demden* Oláh & Johanson, 2008: 15.

*Type locality.* Vietnam, Bach Ma [Bach Ma National Park], 700 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh & Johanson 2008).

***Hydromanicus fallax* Mey, 1996**

*Hydromanicus fallax* Mey, 1996a: 60.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2008. Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* Female described by Oláh & Johanson (2008a).

***Hydromanicus feminalis* (Martynov, 1934)**

*Hydatopsyche feminalis* Martynov, 1934: 297.

*Hydromanicus feminalis* (Martynov, 1934); Oláh & Johanson 2008: 14.

*Type locality.* Russia, South-Ussuri, Sutshan [Southern Ussuri, Partizamsk].

*Type depository.* The type depository institution is unknown.

*Habitat.* Fast flowing rivers and streams (Martynov 1934).

*Distribution.* **Russia** (Ivanov 2011a; Martynov 1934), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Hoa Binh Province: Oláh & Johanson 2008).

*Remarks.* The male was re-described by Oláh & Johanson (2008a).

***Hydromanicus hullamos* Oláh, 2013**

*Hydromanicus hullamos* Oláh, 2013a: 77.

*Type locality.* Vietnam, Nghe An Province, Frontier-Vietnam, 750 m, 19°40.879'N, 104°49.444'E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Oláh 2013).

***Hydromanicus inferior* Chantaramongkol & Malicky, 1995**

*Hydromanicus inferior* Chantaramongkol & Malicky, 1995: 94.

*Type locality.* Thailand, Doi Inthanon, Mae Klang, 400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Brooks and streams (Malicky 2006a).

*Distribution.* **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky 2018a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1995; Laudee & Prommi 2011), **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

*Remarks.* The male was re-described by Oláh & Johanson (2008a).

***Hydromanicus klanklini* (Malicky & Chantaramongkol, 1993)**

*Hydatomanius klanklini* Malicky & Chantaramongkol, 1993a: 470.

*Hydromanicus klanklini* (Malicky & Chantaramongkol, 1993); Oláh & Johanson 2008: 17.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams and waterfalls (Prommi, Permkam & Malicky 2006b).

*Distribution.* **Malaysia** (Malicky & Chantaramongkol 2000; Oláh & Johanson 2008), **Myanmar** (Oláh & Johanson 2008; Wityi, Nozaki & Fujino 2015), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a; Malicky & Chantaramongkol 2000; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi, Permkam & Malicky 2006b), **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

*Remarks.* The larva and pupa were described by Prommi, Permkam & Malicky (2006b). The male genitalia were re-described by Oláh & Johanson (20087a).

***Hydromanicus luctuosus* Ulmer, 1905**

*Hydromanicus luctuosus* Ulmer, 1905a: 92.

*Hydromanicus truncatus* Betten, 1909; Malicky, 2009a: 44.

*Type locality.* [India] Himalaya, Sikkim.

*Type depository.* Male and female syntypes in MZPW (former Stettiner Museum).

*Habitat.* Unknown.

*Distribution.* **Bhutan** (Malicky 2007a), **China** (Yang et al. 2005), **India** (Betten 1909; Ghosh &

Chaudhury 1998; Oláh & Johanson 2008; Oláh, Vincon & Johanson 2021; Ulmer 1905a), **Nepal** (Malicky 2006a; Malicky 2018a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* The male was re-described by Malicky (2009a). Morphological aberrations given by Malicky (2014b).

***Hydromanicus ovatus* (Li, Tian & Dudgeon, 1990)**

*Hydatomanicus ovatus* Li, Tian & Dudgeon, 1990: 40.  
*Hydromanicus ovatus* (Li, Tian & Dudgeon, 1990);  
Oláh & Johanson 2008: 21.

*Type locality.* China, Guangdong Province, Wuhua County.

*Type depository.* Male holotype in HKUBM.

*Habitat.* Streams (Oláh & Johanson 2008).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Malicky & Chantaramongkol 2000; Nghia Binh Province: Oláh & Johanson 2008).

*Remarks.* The male and female genitalia were re-described by Oláh & Johanson (2008a).

***Hydromanicus paros* Oláh, 2013**

*Hydromanicus paros* Oláh, 2013a: 78.

*Type locality.* Vietnam, Lao Cai Province, Fan Si Pan Mts, 16 km NW Sa Pa.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Hydromanicus punctosalis* Mey, 1996**

*Hydromanicus punctosalis* Mey, 1996a: 62.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Benlue et al. 2012a).

*Distribution.* **Thailand** (Benlue et al. 2012a), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

***Hydromanicus respersarius* (Mey, 1995)**

*Hydatopsyche respersaria* Mey, 1995: 212.

*Hydromanicus respersarius* (Mey, 1995); Oláh & Johanson 2008: 14.

*Type locality.* Vietnam, Tam Dao, 60 km NW von Hanoi, 900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Mey 1995).

***Hydromanicus sacso* Oláh & Johanson, 2008**

*Hydromanicus sacso* Oláh & Johanson, 2008a: 36.

*Type locality.* Vietnam, Lamdong, Baoloc, Duchma stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Waterfalls (Oláh & Johanson 2008).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

***Hydromanicus scotosius* (Mey, 1996)**

*Hydatomanicus scotosius* Mey, 1996a: 62.

*Hydatomanicus scotosia* Mey, 1996; Armitage et al. 2005: 31.

*Hydromanicus scotosius* (Mey, 1996); Oláh & Johanson 2008: 14.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Nepal** (Malicky 2006a, Malicky & Chantaramongkol 2000; Mattern 2015), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2000; Nuntakwang, Chantaramongkol & Courtney, 2007), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000).

***Hydromanicus tabernaemontanus* Mey, 1996**

*Hydromanicus tabernaemontanus* Mey, 1996a: 60.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100-2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a, Oláh 2013).

***Hydropsyche appendicularis* Martynov, 1931**

*Hydropsyche appendicularis* Martynov, 1931: 7.

*Type locality.* [China] Szechwan, Mount Omei, Shin Kai Si.

*Type depository.* Male holotype in USNM.

*Habitat.* Streams (Bunlue et al. 2012). Brooks, streams and rivers (Malicky 2006a).

*Distribution.* **China** (Martynov 1931; Yang, Sun & Morse 2016), **India** (Mey 1999b; Malicky & Chantaramongkol 2000; Oláh & Johanson 2008; Pandher et al. 2017), **Laos** (Malicky & Chantaramongkol 2000), **Nepal** (Malicky 2006a; Malicky 2014b; Malicky 2018a; Malicky & Chantaramongkol 2000; Mattern 2015; Oláh & Johanson 2008), **Pakistan** (Malicky & Chantaramongkol 2000; Oláh 1994), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Oláh 2013).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000) and Pandher et al. (2017a). Deformation of genitalia described by Malicky (2014b).

***Hydropsyche athene* Malicky & Chantaramongkol, 2000**

*Hydropsyche athene* Malicky & Chantaramongkol, 2000: 820.

*Type locality.* China, Zhejiang, Gutien Shan, 26°21'N, 119°26', 450 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Malicky & Chantaramongkol 2000; Yang, Sun & Morse 2016), **North Korea** (Oláh & Johanson 2008; Park & Kong

2020), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

***Hydropsyche bonuseventus* Malicky & Chantaramongkol, 2000**

*Hydropsyche bonuseventus* Malicky & Chantaramongkol, 2000: 805.

*Type locality.* Thailand, Doi Puka.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Mey 2005a).

***Hydropsyche boreas* Malicky & Chantaramongkol, 2000**

*Hydropsyche boreas* Malicky & Chantaramongkol, 2000: 806.

*Type locality.* Thailand, Mae Sai, 20°26'N, 99°50'E, 400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Malicky 2010a), **Thailand** (Malicky & Chantaramongkol 2000; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Hoa Binh Province: Malicky & Chantaramongkol 2000).

***Hydropsyche camillus* Malicky & Chantaramongkol, 2000**

*Hydropsyche camillus* Malicky & Chantaramongkol, 2000: 809.

*Type locality.* Thailand, Mogtian, ca. 20°02'N, 99°20'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low to moderate altitudes (36–220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Stream in agricultural area, with slightly basic water on bottom of gravel, sand and mud (Prommi, Peumwarunyoo & Mansukphol 2016). Streams (Bunlue et al. 2012).

Tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018). Brooks and shallow, slow-flowing streams in forest (Malicky, Ivanov & Melnitsky 2020). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **China** (Oláh, Oláh & Li 2020), **India** (Pandher et al. 2017), **Laos** (Malicky 2010a; Oláh & Johanson 2008), **Thailand** (Bunlue et al. 2012; Laudee & Prommi 2011; Malicky & Chantaramongkol 2000; Malicky, Ivanov & Melnitsky 2020 Nuntakwang, Chantaramongkol & Courtney 2007; Prommi, Peumwarunyoo & Mansukphol 2016; Seetapan & Prommi 2012), **Vietnam** (Bac Kan Province: Oláh & Johanson 2008. Hoa Binh Province: Oláh & Johanson 2008. Vinh Phuc Province: Malicky & Chantaramongkol 2000).

*Remarks.* The larva was described by Prommi (2016a).

#### ***Hydropsyche cerva* (Li & Tian, 1990)**

*Ceratopsyche cerva* Li & Tian, 1990: 134.

*Hydropsyche cerva* (Li & Tian, 1990); Oláh & Johanson 2008: 56.

*Type locality.* China, Yunnan Province, Xishu-angbanna.

*Type depository.* Male holotype in NAU.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **China** (Li & Tian 1990; Yang, Sun & Morse 2016; Yang et al. 2005), **Laos** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000). The species was originally described in *Ceratopsyche*, considered by the authors as a subgenus under *Hydropsyche*.

#### ***Hydropsyche compressa* (Li & Tian, 1990)**

*Ceratopsyche compressa* Li & Tian, 1990: 135.

*Hydropsyche compressa* (Li & Tian, 1990); Oláh & Johanson (2008a: 56).

*Type locality.* China, Yunnan Province, Kunming.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Li & Tian 1990; Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* The species was originally described in *Ceratopsyche*, considered by the authors as a subgenus under *Hydropsyche*.

#### ***Hydropsyche decora* Navás, 1932**

*Hydropsyche decora* Navás, 1932a: 940.

*Type locality.* Tonkin [Vietnam], Chapa [Sa Pa].

*Type depository.* Female holotype possibly in MNHN.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a; Navás 1932a).

*Remarks.* The male was re-described by Mey (1996b).

#### ***Hydropsyche dispater* Malicky & Mey, 2000**

*Hydropsyche dispater* Malicky & Mey, 2000 in Malicky & Chantaramongkol 2000: 813.

*Type locality.* Vietnam: Hoa Binh, Mai Chau.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Malicky & Chantaramongkol 2000).

#### ***Hydropsyche doctersi* Ulmer, 1951**

*Hydropsyche doctersi* Ulmer, 1951: 233.

*Type locality.* Indonesia, West-Java, Bandung.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laudee & Prommi 2011a). Streams (Bunlue et al. 2012). Stream (Oláh & Johanson 2008).

*Distribution.* **India** (Oláh & Johanson 2008; Pandher et al. 2017), **Indonesia** (Ulmer 1951), **Laos** (Oláh & Johanson 2008), **Malaysia** (Malicky & Chantaramongkol 2000; Malicky, Ivanov & Melnitsky 2014), **Thailand** (Bunlue et al. 2012; Laudee & Prommi 2011; Malicky &

Chantaramongkol 2000; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000).

### ***Hydropsyche dolichenus* Malicky & Mey, 2000**

*Hydropsyche dolichenus* Malicky & Mey, 2000 in Malicky & Chantaramongkol, 2000: 813.

*Type locality.* Vietnam: Hoa Binh, Mai Chai.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Springs (Oláh & Johanson 2008).

*Distribution.* **Vietnam** (Hoa Binh Province: Malicky & Chantaramongkol 2000; Oláh & Johanson 2008. Son La Province: Oláh & Johanson 2008).

### ***Hydropsyche dolosa* Banks, 1939a**

*Hydropsyche dolosa* Banks, 1939a: 489.

*Type locality.* China, SW Fukien, Gang Ken.

*Type depository.* Male holotype in MCZ.

*Habitat.* Streams (Prommi 2016). Stream with bottom of boulder, cobble and sand (Laudee & Prommi 2011).

*Distribution.* **China** (Banks 1939a), **Thailand** (Laudee & Prommi 2011; Prommi 2016), **Vietnam** (Vinh Phuc Province: Malicky & Chantaramongkol 2000).

*Remarks.* *Hydropsyche dolosa* Banks, 1939 was considered being synonym with *Hydropsyche formosana* Ulmer, 1911 by Mey 1999b. The species was re-described the name considered valid by Malicky & Chantaramongkol (2000). The larva was described by Prommi (2016a).

### ***Hydropsyche effusa* Mey, 1996**

*Hydropsyche effusa* Mey, 1996b: 148.

*Type locality.* Vietnam, Fan Si Pan, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996b, Mey 2005a; Oláh 2013; Oláh & Johanson 2008).

### ***Hydropsyche formosana* Ulmer, 1911**

*Hydropsyche formosana* Ulmer, 1911: 397.

*Hydropsyche kagiana* Kobayashi, 1987b; Oláh & Johanson 2008: 92.

*Mexipsyche infundibularis* Tian & Li, 1985; Tian, Yang & Li 1996: 107.

*Type locality.* [Taiwan] Formosa, Kanshirei.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at low to moderate altitude (23–220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue et al. 2012).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **China** (Yang, Sun & Morse 2016), **Korea** (Park & Kong 2020), **Taiwan** (Kobayashi 1987b; Malicky 2014a; Malicky & Chantaramongkol 2000; Oláh & Johanson 2008; Ulmer 1911; Yang et al. 2005), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011a; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Mey 2005a; Vinh Phuc Province: Malicky & Chantaramongkol 2000).

*Remarks.* The name *Hydropsyche dolosa* Banks, 1939 was considered valid by Malicky & Chantaramongkol (2000). The male was re-described by Malicky & Chantaramongkol (2000). The male genitalia were illustrated by Tian, Yang & Li (1996a).

### ***Hydropsyche harpagofalcata* Mey, 1995**

*Hydropsyche harpagofalcata* Mey, 1995: 216.

*Hydropsyche adrautos* Malicky & Chantaramongkol, 1996; Malicky 2013: 47.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500–1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Malicky 2019). Streams (Bunlue et al. 2012).

*Distribution.* **China** (Yang et al. 2005; Yang, Sun & Morse 2016), **India** (Pandher et al. 2017), **Laos** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Malicky 2019; Malicky & Chantaramongkol 1996; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Mey 1995, Mey 2005a).



*Remarks.* Male re-described by Pandher *et al.* (2017a).

***Hydropsyche injusta* Banks, 1938**

*Hydropsyche injusta* Banks, 1938: 233.

*Type locality.* Malaysia, Cameron Highlands, 4500-5000 ft.

*Type depository.* The male syntypes originated from the Selangor Museum, now possibly in the NMKL. Male paratypes are deposited in MCZ.

*Habitat.*

*Distribution.* **Malaysia** (Banks 1938), **Vietnam** (Thua Thien-Hue Province: Oláh & Johanson 2008; Vinh Phuc Province: Oláh & Johanson 2008).

*Remarks.* The male genitalia were re-described by Oláh & Johanson (2008a).

***Hydropsyche keoda* Oláh & Johanson, 2008**

*Hydropsyche keoda* Oláh & Johanson, 2008a: 146.

*Type locality.* Vietnam, Lamdong, Dalat, Monastery Balcony.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

***Hydropsyche lomdom* Oláh & Johanson, 2008**

*Hydropsyche lomdom* Oláh & Johanson, 2008a: 93.

*Type locality.* Vietnam, Bac Kan Province, Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2008).

***Hydropsyche napaea* Mey, 1996**

*Hydropsyche napaea* Mey, 1996a: 60.

*Type locality.* Vietnam, NW Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Fast-flowing streams (Prommi 2016).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* Larva described by Prommi (2016a).

***Hydropsyche pallipenne* Banks, 1938**

*Hydropsyche pallipenne* Banks, 1938: 234.

*Type locality.* Malaysia, Cameron Highlands, 4500-5000 ft.

*Type depository.* Male syntypes (no type specimen selected in original publication) originated from the Selangor Museum, now possibly in NMKL. A male paratype is deposited in MCZ.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue *et al.* 2012). Brooks and streams (Malicky 2006a). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **India** (Malicky & Chantaramongkol 2000; Oláh & Johanson 2008; Pandher *et al.* 2017), **Malaysia** (Banks 1938; Malicky & Chantaramongkol 2000; Oláh & Johanson 2008), **Myanmar** (Malicky 2010a; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky 2018a; Malicky & Chantaramongkol 2000; Mattern 2015), **Pakistan** (Malicky & Chantaramongkol 2000), **Thailand** (Bunlue *et al.* 2012; Laundee & Prommi 2011; Malicky & Chantaramongkol 2000; Malicky, Suwannarat & Laundee 2018; Nuntakwang, Chantaramongkol & Courtney 2007; Seetapan & Prommi 2012), **Vietnam** (Lao Cai Province: Mey 1995).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000) and Pandher *et al.* (2017a).

***Hydropsyche perfuscata* Mey, 1995**

*Hydropsyche perfuscata* Mey, 1995: 215.

*Ceratopsyche perfuscata* (Mey, 1995); Schuster 1984: 240.

*Hydropsyche perfuscata* Mey, 1995; Oláh & Johanson 2008: 56.

*Type locality.* Vietnam, Tam Dao, 60 km NW von Hanoi, 900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Mey 1995; Oláh & Johanson 2008).

*Remarks.* Belonging to *Ceratopsyche* Ross & Unzicker, 1977 (Schuster 1984). The male phallus was illustrated by Mey (2003).

### ***Hydropsyche pluvialis* Navás, 1932**

*Hydropsyche pluvialis* Navás, 1932a: 939.

*Ceratopsyche pluvialis* (Navás, 1932); Schuster 1984: 340.

*Hydropsyche pluvialis* Navás, 1932; Oláh & Johanson 2008: 56.

*Type locality.* Laos, Tonkin [Vietnam], Chapa [Sa Pa], 1500 m.

*Type depository.* Male holotype in MNHN.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996b; Mey 2005a).

*Remarks.* The *Type locality* was listed as Laos in the original publication. This was error according to Mey (1996b) and should be corrected to Vietnam. The male was re-described by Mey (1996b).

### ***Hydropsyche sangbung* Oláh & Johanson, 2008**

*Hydropsyche sangbung* Oláh & Johanson, 2008a: 96.

*Type locality.* Vietnam, Nghia Binh Province, Bung stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghia Binh Province: Oláh & Johanson 2008).

### ***Hydropsyche simulata* Mosely, 1942**

*Hydropsyche simulata* Mosely, 1942: 350.

*Hydropsyche chekiangana* Schmid, 1965; Tian, Yang & Li 1996: 93.

*Ceratopsyche simulata* (Mosely, 1942); Schuster 1984: 340.

*Hydropsyche simulata* Mosely, 1942; Oláh & Johanson 2008: 56.

*Type locality.* China [Fujian], Foochow.

*Type depository.* Male holotype in NHM.

*Habitat.* Streams (Xie et al. 2017).

*Distribution.* **China** (Malicky & Chantaramongkol 2000; Mosely 1942; Schmid 1965), **North Korea** (Oláh & Johanson 2008; Park & Kong 2020), **Vietnam** (Bac Kan Province: Oláh & Johanson 2008).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2000). The pupa was described by Xie et al. (2017). The larva was described by Xu, Sun & Wang (2018).

### ***Hydropsyche soinha* Oláh & Johanson, 2008**

*Hydropsyche soinha* Oláh & Johanson, 2008a: 66.

*Type locality.* Vietnam, Lamdong, Dalat, Monastery balcony.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Malaysia** (Oláh & Johanson 2008), **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

### ***Hydropsyche tanung* Oláh & Johanson, 2008**

*Hydropsyche tanung* Oláh & Johanson, 2008a: 69.

*Type locality.* Vietnam, Dalat, Tanung Valley.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2008).

### ***Hydropsyche trimonticola* Mey, 1996**

*Hydropsyche trimonticola* Mey, 1996b: 150.

*Type locality.* Vietnam, Tam dao.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Mey 1996b; Oláh & Johanson 2008).

*Remarks.* Male redescribed by Oláh & Johanson (2008a).

### ***Hydropsyche uvana* Mey, 1995**

*Hydropsyche uvana* Mey, 1995: 214.

*Ceratopsyche uvana* (Mey, 1995); Schuster 1984: 340.

*Hydropsyche uvana* Mey, 1995; Oláh & Johanson 2008: 56.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500-1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **India** (Oláh & Johanson 2008; Pandher et al. 2017), **Laos** (Oláh & Johanson 2008), **Myanmar** (Wityi, Nozaki, & Fujino 2015a), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2000), **Vietnam** (Lao Cai Province: Oláh 2013, Mey 1995, Mey 2005a).

*Remarks.* Belonging to *Ceratopsyche* Ross & Unzicker, 1977 (Schuster 1984). Male re-described by Malicky & Chantaramongkol (2000). The male genitalia were re-described by Oláh & Johanson (2008a).

### ***Hydropsyche vietnamensis* Mey, 1995**

*Hydropsyche vietnamensis* Mey, 1995: 214.

*Ceratopsyche vietnamensis* (Mey, 1995); Schuster 1984: 340.

*Hydropsyche vietnamensis* Mey, 1995; Oláh & Johanson 2008: 56.

*Type locality.* Vietnam, Tam Dao, 60 km NW von Hanoi, 900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a; Vinh Phuc Province: Mey 1995).

*Remarks.* Belonging to *Ceratopsyche* Ross & Unzicker, 1977 (Schuster 1984).

### ***Hydropsyche xenga* Oláh & Johanson, 2008**

*Hydropsyche xenga* Oláh & Johanson, 2008a: 152.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2008).

### ***Macrostemum albardanum* (Banks, 1931)**

*Macronema albardana* Banks, 1931a: 396.

*Macrostemum albardanum* (Banks, 1931); Flint & Bueno-Soria 1982: 369.

*Type locality.* Malaysia, [Peninsular] Annam.

*Type depository.* Male holotype in MCZ.

*Habitat.* Unknown.

*Distribution.* **Malaysia** (Banks 1931a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Malicky 2010a), **Vietnam** (Armitage et al. 2005).

*Remarks.* Armitage et al. (2005a) listed the species from Vietnam, but without locality data.

### ***Macrostemum bacham* Hoang, Tanida & Bae, 2005**

*Macrostemum bacham* Hoang, Tanida & Bae, 2005a: 163.

*Type locality.* Vietnam, Da Nang Province, Ba Na, Tuy Loan River, 200 m.

*Type depository.* Male holotype in SWU.

*Habitat.* Small forest streams (Oláh 2013).

Mid-reaches of unspoiled streams (Hoang, Tanida & Bae 2005).

*Distribution.* **Laos** (Malicky 2010a), **Vietnam** (Da Nang Province [Da Nang city]: Hoang, Tanida & Bae 2005. Dak Lak Province: Hoang, Tanida & Bae 2005. Hoa Binh Province: Oláh 2013. Quang Tri Province: Oláh 2013).

### ***Macrostemum buzoganos* Oláh, 2013**

*Macrostemum buzoganos* Oláh, 2013a: 80.

*Type locality.* Vietnam, Quan Tri Province, Da Krong Nature Reserve, 2 km SE of HQ.

*Type depository.* Male holotype in OPC.

*Habitat.* Small forest streams (Oláh 2013).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh 2013).

### ***Macrostemum centrotum* (Navás, 1917)**

*Macronema centrotum* Navás, 1917a: 403.

*Macrostemum centrotum* (Navás, 1917); Flint & Bueno-Soria 1982: 369.

*Type locality.* 'Indochina', 'Chapa' [Vietnam, Sa Pa in Fan Si Pan Mts].

*Type depository.* Male holotype possibly in MZBS.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016; Yang *et al.* 2005), **Vietnam** (Vinh Phuc Province: Malicky 1998a; Oláh 2013; Lao Cai Province: Mey 2005a, Navás 1917).

*Remarks.* The male was re-described by Malicky (1998a).

***Macrostemum dione* Malicky & Chantaramongkol, 1998**

*Macrostemum dione* Malicky & Chantaramongkol, 1998 in Malicky, 1998a: 776.

*Type locality.* Indonesia, Sumatra, Pematang Siantar.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (10 m and below) with mixed bottom of gravel and sand (Laundee & Prommi 2011a).

*Distribution.* **Indonesia** (Malicky 1998a; Malicky 2007b), **Laos** (Malicky 1998a), **Malaysia** (Malicky 1998a), **Thailand** (Laundee & Prommi 2011; Malicky 1998a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Malicky 1998a).

***Macrostemum dohrni* (Ulmer, 1905)**

*Macronema dohrni* Ulmer, 1905a: 69.

*Macrostemum dohrni* (Ulmer 1905); Flint & Bueno-Soria 1982: 369.

*Type locality.* Indonesia, Sumatra, Liangagas.

*Type depository.* Male holotype in PAN, former Stettin Museum.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Waterfalls (Malicky 1998a). Above waterfalls (Malicky, Suwannarat & Laundee 2018).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 2007b; Oláh & Johanson 2010c; Ulmer 1905a), **Malaysia** (Malicky 2010a), **Thailand** (Laundee & Prommi 2011; Malicky 1998a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dak Lak Province: Hoang, Tanida & Bae 2005. Hoa Binh Province: Oláh 2013).

*Remarks.* The male was re-described by Malicky (1998a). The female was described by Hoang, Tanida & Bae (2005a).

***Macrostemum fastosum* (Walker, 1852)**

*Macronema fastosa* Walker, 1852: 76.

*Macrostemum fastosum* (Walker 1852); Flint & Bueno-Soria 1982: 369.

*Macronema tripunctatum* Banks, 1924; Fischer 1963: 186.

*Macronema fastuosum* Walker, 1852 [sic]; Navás 1932a: 945.

*Type locality.* China, Hong Kong.

*Type depository.* Holotype (sex not stated) in NHM.

*Habitat.* Rivers (Oláh, Oláh & Li 2020). Mid-reaches of un-spoiled streams (Hoang, Tanida & Bae 2005). Streams (Malicky 2019). Streams (Bunlue *et al.* 2012). Rivers and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Bhutan** (Malicky 2007a; Schmid 1975), **Myanmar** (Mey & Malicky 2021; Wityi, Nozaki & Fujino 2015), **China** (Yang, Sun & Morse 2016; Walker 1852), **India** (Betten 1909; Ghosh & Chaudhury 1998; Malicky 1998a; Yang *et al.* 2005), **Indonesia** (Malicky 1998a; Malicky 2007b; Malicky, Ivanov & Melnitsky 2014; Oláh & Johanson 2010c; Oláh & Malicky 2011; Ulmer 1910), **Laos** (Malicky 1998a), **Malaysia** (Malicky, Ivanov & Melnitsky 2014; Yang *et al.* 2005), **Myanmar** (Malicky 1998a; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 1998a; Malicky 2006a; Malicky 2018a; Mattern 2015), **Philippines** (Banks 1924; Mey 1998b; Yang *et al.* 2005), **Sri Lanka** (Yang *et al.* 2005), **Taiwan** (Yang *et al.* 2005), **Thailand** (Bunlue *et al.* 2012; Malicky 1998a; Malicky 2019; Nuntakwang, Chantaramongkol & Courtney 2007; Seetapan & Prommi 2012), **Vietnam** (Bac Kan Province: Oláh 2013. Lao Cai Province: Mey 1995; Mey 2005a; Hoang, Tanida & Bae 2005; Navás 1932a. Quang Tri Province: Oláh 2013. Vinh Phuc Province: Malicky 1998a; Oláh 2013; Mey 1995; Hoang, Tanida & Bae 2005).

*Remarks.* The male genitalia and wing pattern was re-described by Malicky (1998a). The female was described by Hoang, Tanida & Bae (2005a). Variation in wing pattern indicated by Oláh & Johanson (2010c).

***Macrostemum fenestratum* (Albarda, 1881)**

*Macronema fenestratum* Albarda, 1881: 18.

*Macrostemum fenestratum* (Albarda, 1881); Flint & Bueno-Soria 1982: 369.

*Macronema similior* Banks, 1931a; Malicky, 2009a: 47.

*Macronema spectabilis* Banks, 1931a; Malicky 2013: 47.

*Macronema splendens* Banks, 1931b; Malicky, 2009a: 47.

*Type locality.* [Indonesia] Java, Solok.

*Type depository.* Female holotype in unknown depository.

*Habitat.* Running water at low to moderate altitude (5–220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Oláh 2013). Mid-reaches of natural streams (Hoang, Tanida & Bae 2005). Canal in mining, agricultural and forested area, with slightly basic water on artificial bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Rivers (Malicky, Melnitsky & Ivanov 2014).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **China** (Yang, Sun & Morse 2016), **Indonesia** (Albarda 1881; Malicky 1998a; Malicky 2007b; Malicky 2008b; Yang *et al.* 2005), **Laos** (Malicky 1998a), **Malaysia** (Banks 1931a; Banks 1931b; Malicky 1998a; Malicky, Ivanov & Melnitsky 2014), **Myanmar** (Mey & Malicky 2021), **Philippines** (Banks 1931a), **Thailand** (Banks 1931a; Laudee & Prommi 2011; Malicky 2009a; Melnitsky & Malicky 2008; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi, Peumwarunyoo & Mansukphol 2016; Sangpradub 2017), **Vietnam** (Dak Lak Province: Hoang, Tanida & Bae 2005. Dong Nai Province: Malicky 1998a. Thua Thien-Hue Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Lam Dong Province: Oláh 2013. Quang Binh Province: Oláh 2013. Quang Tri Province: Oláh 2013).

*Remarks.* The male was re-described and forewing pattern variation illustrated by Malicky (1998a) and Malicky (2009a). The female was described by Hoang, Tanida & Bae (2005a).

***Macrostemum floridum* (Navás, 1929)**

*Macronema floridum* Navás, 1929: 41.

*Macrostemum floridum* (Navás, 1929); Flint & Bueno-Soria 1982: 369.

*Type locality.* China, Long Tchéon, Kouang-Si.

*Type depository.* Male and female syntypes in MNHN.

*Habitat.* Running water at low altitude (19–23 m) with mixed bottom of boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Small forest streams (Oláh 2013). Mid-reaches of unspoiled streams (Hoang, Tanida & Bae 2005). Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Streams (Bunlue *et al.* 2012). Brooks and rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **China** (Navás 1929; Yang, Sun & Morse 2016), **India** (Nuntakwang, Chantaramongkol & Courtney 2007), **Laos** (Malicky 2010a), **Myanmar** (Mey & Malicky 2021), **Thailand** (Bunlue *et al.* 2012; Laudee & Prommi 2011; Malicky 1998a; Malicky, Ivanov & Melnitsky 2020; Prommi & Chantaramongkol 2005), **Vietnam** (Dong Nai Province: Malicky 1998a. Bac Kan Province: Oláh 2013. Dak Lak Province: Hoang, Tanida & Bae 2005. Hoa Binh Province: Oláh 2013. Son La Province: Oláh 2013. Quang Tri Province: Oláh 2013).

*Remarks.* The male was re-described by Malicky (1998a). The female was described by Hoang, Tanida & Bae (2005a).

***Macrostemum indistinctum* (Banks, 1911)**

*Macronema indistinctum* Banks, 1911: 106.

*Macrostemum indistinctum* (Banks 1911); Flint & Bueno-Soria 1982: 369.

*Macronema brisi* Navás, 1930; Malicky 1998a: 777.

*Macronema fulvescens* Martynov, 1935; Malicky 1998a: 777.

*Macrostemum saowapa* Chantaramongkol & Malicky, 1986; Flint 2003: 819.

*Type locality.* India, Pusa, Bengal.

*Type depository.* Male holotype in MCZ.

*Habitat.* Rivers and streams (Oláh 2013). Mid-reachers of preserved streams (Hoang, Tanida & Bae 2005). Rivers (Malicky, Melnitsky & Ivanov 2014). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Yang, Sun & Morse 2016), **India** (Banks 1911; Malicky 1998a; Martynov 1935a), **Indonesia** (Malicky 1998a; Malicky 2007b), **Laos** (Laudee & Malicky 2017; Malicky 1998a), **Malaysia** (Malicky 1998a), **Sri Lanka** (Chantaramongkol & Malicky 1986; Flint 2003; Malicky 1998a), **Thailand** (Malicky 1998a; Nuntakwang, Chantaramongkol & Courtney 2007; Sangpradub 2017), **Vietnam** (Dong Nai Province: Malicky 1998a. Ha Noi: Oláh 2013. Dak Lak Province: Hoang, Tanida & Bae 2005. Lam Dong Province: Oláh 2013. Quang Tri Province: Oláh 2013).

*Remarks.* The male was re-described by Malicky (1998a). The male and female was re-described by Flint (2003a). The female was described by Hoang, Tanida & Bae (2005a).

#### ***Macrostemum junolah* Oláh, 2013**

*Macrostemum junolah* Oláh, 2013a: 83.

*Type locality.* Vietnam, Binh Tri Thien Province, Bach Ma National Park, 750 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien Hue Province: Oláh 2013).

#### ***Macrostemum midas* Malicky & Chantaramongkol, 1998**

*Macrostemum midas* Malicky & Chantaramongkol, 1998 in Malicky, 1998a: 770.

*Type locality.* Thailand, Prov. Ranong, Klong Naka WS.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laudee & Prommi 2011a). Mid-reachers of un-spoiled streams (Hoang, Tanida & Bae 2005). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Streams (Bunlue et al. 2012). Waterfalls (Malicky 1998a). In tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **Myanmar** (Malicky 1998a), **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Malicky 2010a), **Malaysia** (Malicky 1998a), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Thailand** (Bunlue et al. 2012; Laudee & Prommi 2011; Malicky 1998a; Malicky, Suwannarat & Laudee 2018; Nuntakwang, Chantaramongkol & Courtney 2007; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Da Nang City: Hoang, Tanida & Bae 2005).

*Remarks.* The female was described by Hoang, Tanida & Bae (2005a).

#### ***Macrostemum seba* Malicky & Prommi, 2009**

*Macrostemum seba* Malicky & Prommi, 2009 in Malicky 2009a: 47.

*Type locality.* Thailand, Phangnga Province, Sriphanga NP, Tonetontoe WF [waterfall], 8°58'N, 98°27'E, 68 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Small forest streams (Oláh 2013). Waterfalls (Malicky 2009a).

*Distribution.* **Thailand** (Malicky 2009a), **Vietnam** (Quang Tri Province: Oláh 2013).

#### ***Macrostemum tonkinensis* (Mosely, 1934)**

*Macronema tonkinensis* Mosely, 1934: 140.

*Macrostemum tonkinensis* (Mosely, 1934); Flint & Bueno-Soria 1982: 369.

*Type locality.* [Vietnam, Lao Cai] Thai-Nien, Basin of Fleuve Rouge.

*Type depository.* Female holotype in NHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mosely 1934; Vinh Phuc Province: Malicky 1998a).

*Remarks.* The male was described by Malicky (1998a).

### ***Polymorphanisus astictus* Navás, 1923**

*Polymorphanisus astictus* Navás, 1923: 47.

*Polymorphanisus flavipes* Banks, 1939b; Barnard 1980: 79.

*Polymorphanisus hainanensis* Martynov, 1930; Barnard 1980: 79.

*Type locality.* China, Kouy-Tchéou, Reg. De Pin-Fa (reported by Barnard 1980 as “Kweichow, P’ing-Fa”).

*Type depository.* Male lectotype in MNHN, designated by Barnard (1980a)

*Habitat.* Small streams in forests (Oláh 2013).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Banks 1939b), **Indonesia** (Malicky 2007b), **Malaysia** (Barnard 1980), **Myanmar** (Mey & Malicky 2021), **Philippines** (Mey 1998b), **Thailand** (Barnard 1980; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Quang Tri Province: Oláh 2013),

*Remarks.* The species was described based on male and female syntypes. The publication year of the journal is given as 1922 in the journal, but it was printed in 1923. The male and female were re-described by Barnard (1980a).

### ***Polymorphanisus muluensis* Barnard 1980**

*Polymorphanisus muluensis* Barnard, 1980: 87.

*Type locality.* Malaysia, Borneo, Sarawak, Gunong Mulu National Park.

*Type depository.* Male holotype in NHM.

*Habitat.* Running water at low altitude (5-13 m and below) with mixed bottom of gravel and sand (Laundee & Prommi 2011a).

*Distribution.* **Malaysia** (Barnard 1980), **Laos** (Malicky 1998b), **Thailand** (Laundee & Prommi 2011), **Vietnam** (Dong Nai Province: Malicky 1998b).

### ***Polymorphanisus nigricornis* Walker 1852**

*Polymorphanisus nigricornis* Walker, 1852: 79.

*Type locality.* North Inda.

*Type depository.* Holotype (sex unknown) in NHM.

*Habitat.* Running water at low altitude (12 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a).

*Distribution.* **India** (Barnard 1980; Betten 1909; Walker 1852), **Indonesia** (Barnard 1980; Malicky 2007b), **Laos** (Malicky 1998b), **Malaysia** (Malicky 2010a; Malicky, Ivanov & Melnitsky 2014), **Thailand** (Laundee & Prommi 2011; Malicky 1998b; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Lao Cai Province: Barnard 1980. Dong Nai Province: Malicky 1998b).

*Remarks.* The male and female were re-described by Barnard (1980a).

### ***Polymorphanisus ocellaris* Ulmer, 1906**

*Polymorphanisus ocellaris* Ulmer, 1906a: 60.

*Polymorphanisus indicus* Banks, 1911; Barnard, 1980: 100.

*Type locality.* [Indonesia] Java.

*Type depository.* Female lectotype designated by Barnard (1980a) in RMNH.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Yang *et al.* 2005), **China** (Yang, Sun & Morse 2016), **India** (Banks 1911; Yang *et al.* 2005), **Indonesia** (Malicky 1998b; Malicky 2007b; Ulmer 1906), **Laos** (Malicky 2010a), **Malaysia** (Malicky, Ivanov & Melnitsky 2014; Yang *et al.* 2005), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Sri Lanka** (Barnard 1980; Yang *et al.* 2005), **Thailand** (Malicky 1998b; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam:** (Dong Nai Province: Malicky 1998b).

*Remarks.* The male and female were re-described by Barnard (1980a).

### ***Polymorphanisus umbripes* Barnard, 1980**

*Polymorphanisus umbripes* Barnard, 1980: 95.

*Type locality.* India, Mysore, Shimoga, Tunga River, 1865 ft.

*Type depository.* Female holotype in MCZ.

*Habitat.* Mid and lower reaches of large

streams with cobble substrates (Hoang, Tanida & Bae 2005).

*Distribution.* **India** (Barnard 1980), **Vietnam** (Lam Dong Province: Hoang, Tanida & Bae 2005).

*Remarks.* The male is presently unknown (Hoang, Tanida & Bae 2005). The female was re-described by (Hoang, Tanida & Bae (2005a).

#### ***Polymorphanisus unipunctus* Banks, 1940**

*Polymorphanisus unipunctus* Banks, 1940: 206.

*Type locality.* China, Szechwan, Suifu [Ipin].

*Type depository.* Female holotype in USNM.

*Habitat.* Unknown.

*Distribution.* **China** (Banks 1940a; Yang, Sun & Morse 2016), **Laos** (Malicky 2010a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Dong Nai Province: Malicky 1998b; Vinh Phuc province: Malicky 1998b).

*Remarks.* The male was described by Malicky (1998b).

#### ***Potamyia binhoa* Oláh, Vinçon & Johanson, 2021/22**

*Potamyia binhoa* Oláh, Vinçon & Johanson, 2021: 139.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh, Vinçon & Johanson 2021).

#### ***Potamyia chinensis* (Ulmer, 1915)**

*Hydropsyche chinensis* Ulmer, 1915: 47.

*Cheumatopsyche chinensis* (Ulmer, 1915); Martynov 1934: 289.

*Synatopsyche chinensis* (Ulmer, 1915); Malicky 1997a: 1034.

*Potamyia chinensis* (Ulmer, 1915); Tian & Li 1987: 128.

*Hydropsyche echigoensis* Tsuda, 1949; Oláh, Barnard & Malicky 2006: 751.

*Cheumatopsyche tienmuiaca* Schmid 1965; Tian, Yang & Li 1996: 138.

*Type locality.* China, Peking.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Man-made ponds with sand for water cleaning (Hirabayashi et al. 2005). Rivers (Hirabayashi et al. 2011; Kimura, Inoue & Hirabayashi 2011), lotic water (Uenishi & Tanida 2012). Rivers (Kobayashi, Nozaki & Takemon 2017). River banks (Oláh, Oláh & Li 2020).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Japan** (Hirabayashi et al. 2005; Hirabayashi et al. 2011; Kimura, Inoue & Hirabayashi 2008; Kimura, Inoue & Hirabayashi 2011; Nozaki & Nakamura 2007; Tanida & Kuranishi 2016; Tsuda 1949), **Korea** (Park & Kong 2020; Tanida & Kuranishi 2016), **North Korea** (Park & Kong 2020), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016; Vshivkova et al. 2016), **Vietnam** (Bac Kan Province: Oláh, Barnard & Malicky 2006. Hoa Binh Province: Oláh, Barnard & Malicky 2006. Lam Dong Province: Oláh, Barnard & Malicky 2006. Son La Province: Oláh, Barnard & Malicky 2006).

*Remarks.* The male was re-described by Oláh, Barnard & Malicky (2006a). The male genitalia were illustrated by Malicky (2013a) and Tian, Yang & Li (1996a).

#### ***Potamyia congsa* Oláh et al., 2021**

*Potamyia congsa* Oláh, Vinçon & Johanson, 2021: 141.

*Type locality.* Vietnam, Hanoi, Red River.

*Type depository.* Male holotype in OPC.

*Habitat.* Stones in large rivers (Oláh, Vinçon & Johanson 2021)

*Distribution.* **Vietnam** (Ha Noi: Oláh, Vinçon & Johanson 2021).

#### ***Potamyia euadne* Malicky & Sangpradab, 2001**

*Potamyia euadne* Malicky & Sangpradab, 2001 in Malicky et al., 2001: 12.

*Type locality.* Thailand, Prov. Mae Hong Son, Ban Huai Hia, 19°39'N, 98°14'E, 1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Lakes (Oláh, Barnard & Malicky 2006).



*Distribution.* **Thailand** (Malicky et al. 2001), **Vietnam** (Ha Noi: Oláh, Barnard & Malicky 2006).

*Remarks.* The male was re-described by Oláh, Barnard & Malicky (2006a).

### ***Potamyia flavata* (Banks, 1934)**

*Hydropsyche flavata* Banks, 1934: 569.

*Potamyia flavata* (Banks, 1934); Malicky 1997a: 1035.

*Potamyia proboscida* Li & Tian, 1996 in Tian, Yang & Li, 1996a; Oláh, Barnard & Malicky 2006: 755.

*Type locality.* Malaysia, Malay Peninsula, Kuala Lumpur.

*Type depository.* Male syntypes (no type specimen selected in original publication) originated from the Selangor Museum, now NMKL.

*Habitat.* Streams and canals in cultivated and mining areas, with slightly basic water on bottom of cobble, gravel and sand (Prommi, Peumwarunyoo & Mansukphol 2016). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Stony river shores (Oláh, Barnard & Malicky 2006). Small streams in agricultural and rural environments (Cheunbarn & Chantaramongkol 2005). Streams (Bunlue et al. 2012). Rivers, including slowflowing warm-water rivers, and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Rivers (Malicky, Melnitsky & Ivanov 2016). Slow to moderately fast-flowing small to medium sized streams with moderately clean water and water temperatures of 26.3–29.8°C (Maneechan, Kruttha & Prommi 2018). Streams with bottom of gravel and sand (Laudee & Prommi 2011).

*Distribution.* **China** (Tian, Yang & Li 1996; Yang, Sun & Morse 2016), **Indonesia** (Malicky, Ivanov & Melnitsky 2014; Malicky, Melnitsky & Ivanov 2016; Oláh, Barnard & Malicky 2006. Oláh, Vinçon & Johanson 2021), **Malaysia** (Banks 1934; Malicky, Ivanov & Melnitsky 2014; Oláh, Vinçon & Johanson 2021), **Myanmar** (Mey & Malicky 2021), **Thailand** (Bunlue et al. 2012; Cheunbarn & Chantaramongkol 2005; Laudee & Prommi 2011; Maneechan, Kruttha & Prommi 2018; Nuntakwang, Chantaramongkol & Court-

ney 2007; Oláh, Vinçon & Johanson 2021; Prommi, Peumwarunyoo & Mansukphol 2016; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Ha Noi: Oláh, Barnard & Malicky 2006. Hoa Binh Province: Oláh, Barnard & Malicky 2006. Son La Province: Oláh, Barnard & Malicky 2006).

*Remarks.* The male was re-described by Oláh, Barnard & Malicky (2006a). The larva and pupa were described by Maneechan, Kruttha & Prommi (2018). The male genitalia were re-described by Malicky (1997a). *Potamyia proboscida* Li & Tian, 1996 was restored as valid by Oláh, Vinçon & Johanson 2021. Malicky (1997a: 1035) listed *Potamyia klakahana* (Ulmer, 1951) as a synonym of *Potamyia flava* (Banks, 1934). Oláh, Vinçon & Johanson (2021) restored the status of *Potamyia klakahana* (Ulmer, 1951), a species only recorded from Indonesia.

### ***Potamyia fulvescens* (Navás, 1932)**

*Ulmeria fulvescens* Navás, 1932a: 942.

*Cheumatopsyche fulvescens* (Navás, 1932); Navás 1933a: 98.

*Potamyia fulvescens* (Navás, 1932); Mey 1998a: 15.

*Type locality.* Tonkin, Cha pa [Vietnam, Sa Pa].

*Type depository.* Male lectotype selected by Mey (1998a) in MNHN.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Mey & Malicky 2021), **Vietnam** (Lao Cai Province: Oláh, Barnard & Malicky 2006; Mey 1998a, 2005a)

*Remarks.* Male lectotype designated by Mey (1998a). The male was re-described by Mey (1998a).

### ***Potamyia huberti* Malicky, 1997**

*Potamyia huberti* Malicky, 1997a: 1036.

*Type locality.* Vietnam, Nam Cat Tien, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1997a).

*Remarks.* The male was re-described by Oláh, Barnard & Malicky (2006).

***Potamyia moccha* Oláh et al., 2021**

*Potamyia moccha* Oláh, Vinçon & Johanson, 2021: 143.

*Type locality.* Vietnam, Son La Province, Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh, Vinçon & Johanson 2021).

***Potamyia nuonga* Oláh & Barnard, 2006**

*Potamyia nuonga* Oláh & Barnard, 2006 in Oláh, Barnard & Malicky, 2006: 749.

*Potamyia parva* Tian & Li, 1987; Oláh, Morse & Sun 2008: 9.

*Type locality.* Vietnam, [Son La Province] Moc Chau National Reserve.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **China** (Oláh, Morse & Sun 2008; Tian, Yang & Li 1996; Yang, Sun & Morse 2016), **Vietnam** (Bac Kan Province: Oláh, Barnard & Malicky, 2006).

*Remarks.* Male genitalia illustrated by Malicky (2013a) and Tian, Yang & Li (1996a). The nomenclatorial history of the name was given by Oláh, Morse & Sun (2008a).

***Potamyia phaidra* Malicky & Chantaramongkol, 1997**

*Potamyia phaidra* Malicky & Chantaramongkol, 1997 in Malicky, 1997a: 1037.

*Cheumatopsyche diversa* Thawarorit, Sangpradub & Morse, 2013; Malicky 2014c: 51.

*Type locality.* Thailand, Pai, 600 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

Tributaries (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **Laos** (Malicky 2014c), **Myanmar** (Mey & Malicky 2021), **Thailand** (Laudee & Prommi 2011; Malicky 1997a; Malicky 2014b; Prommi & Chantaramongkol 2005; Prommi, Permkam & Sites 2006; Thapanya, Bunlue & Chantaramongkol, 2013a), **Vietnam** (Lao Cai Province: Mey 2005a; Lam Dong Province: Oláh, Barnard & Malicky 2006).

*Remarks.* The male was re-described by Oláh, Barnard & Malicky (2006a). The larva and pupa were described by Prommi, Permkam & Sites (2006a). Deformation of genitalia described by Malicky (2014b). Malicky (2010) indicated that the species is known from Laos, and (Malicky 2014c) again stated that the species is common also in Laos but no records were presented.

***Potamyia trenhona* Oláh & Barnard, 2006**

*Potamyia trenhona* Oláh & Barnard, 2006 in Oláh, Barnard & Malicky, 2006: 753.

*Type locality.* Vietnam, Lamdong, Baoloc, Loc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh, Barnard & Malicky 2006; Vinh Phuc Province: Oláh, Barnard & Malicky 2006).

***Potamyia vietnama* Oláh, Vinçon & Johanson, 2021**

*Potamyia vietnama* Oláh, Vinçon & Johanson, 2021: 156.

*Potamyia phaidra* Malicky & Chantaramongkol in Malicky, 1997; Oláh et al. 2006a: 753 (misidentification).

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Loc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh, Vinçon & Johanson 2021).

***Pseudoleptonema egena* Oláh, 2013**

*Pseudoleptonema egena* Oláh, 2013a: 85.

*Type locality.* Vietnam, Binh Tri Thien Province, Bach Ma National Park, 700 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Small forest streams (Oláh 2013). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Vietnam** (Thua Thien Hue Province: Oláh 2013; Quang Tri Province: Oláh 2013; Kon Tum Province: Oláh 2013).

### ***Pseudoleptonema maganos* Oláh, 2013**

*Pseudoleptonema maganos* Oláh, 2013a: 87.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh 2013).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013).

### ***Pseudoleptonema paniae* (Malicky & Chantaramongkol, 1991)**

*Trichomacronema paniae* Malicky & Chantaramongkol, 1991b: 114.

*Pseudoleptonema paniae* (Malicky & Chantaramongkol, 1991); Oláh 2013: 84.

*Type locality.* Thailand, Doi Inthanon, Siribhum Waterfall, at Ban Khun Klang, 1300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue *et al.* 2012). Fast-flowing water over rocks, waterfalls (Malicky & Chantaramongkol 1991b).

*Distribution.* **Thailand** (Bunlue *et al.* 2012; Malicky & Chantaramongkol 1991b), **Vietnam** (province not given: Hoang & Bae 2006).

### ***Pseudoleptonema quinquefasciatum* (Martynov, 1935)**

*Macronema quinquefasciatum* Martynov, 1935a: 190.

*Pseudoleptonema quinquefasciatum* (Martynov, 1935); Malicky 1998a: 779.

*Type locality.* India, Almora District, Kumaon Hills, Katarmal, 4500 ft.

*Type depository.* Male holotype in IMK.

*Habitat.* Mid-reaches of natural streams (Hoang, Tanida & Bae 2005). Streams (Bunlue *et al.*

2012). Streams (Prommi, Permkam & Malicky 2006a). Brooks and rivers (Malicky 2006a).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Martynov 1935a), **Laos** (Malicky 1998a), **Myanmar** (Mey & Malicky 2021; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 1998a; Malicky 2006a; Mattern 2015), **Philippines** (Malicky 2010c), **Thailand** (Bunlue *et al.* 2012; Malicky 1998a; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi, Permkam & Malicky 2006a), **Vietnam** (Da Nang City: Hoang, Tanida & Bae 2005. Dak Lak Province: Hoang, Tanida & Bae 2005. Nghe An Province: Hoang, Tanida & Bae 2005).

*Remarks.* The male was re-described by Malicky (1998a). The male and female was re-described by Hoang, Tanida & Bae (2005a). The larva and pupa were described by Prommi, Permkam & Malicky (2006a).

### ***Pseudoleptonema supalak* Malicky & Chantaramongkol, 1998**

*Pseudoleptonema supalak* Malicky & Chantaramongkol, 1998 in Malicky, 1998a: 780.

*Type locality.* Thailand, Nam Nao National-park, Pranlaeng.

*Type depository.* Male holotype in MPC.

*Habitat.* Forest streams (Oláh 2013). Mid-reaches of natural streams (Hoang, Tanida & Bae 2005). Streams (Bunlue *et al.* 2012). Streams (Prommi, Permkam & Malicky 2006a). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Thailand** (Malicky 1998a; Prommi, Permkam & Malicky 2006a; Seetapan & Prommi 2012), **Vietnam** (Dak Lak Province: Hoang, Tanida & Bae 2005. Hoa Binh Province: Oláh 2013; Quang Tri Province: Oláh 2013).

*Remarks.* The male was re-described by Hoang, Tanida & Bae (2005a). The larva and pupa was described by Prommi, Permkam & Malicky (2006a).

### ***Pseudoleptonema tamdao* (Malicky, 1998)**

*Trichomacronema tamdao* Malicky, 1998a: 779.

*Pseudoleptonema tamdao* (Malicky, 1998); Oláh 2013: 88.

*Type locality.* Vietnam, Tam Dao, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Vinh Phuc Province: Malicky 1998a, Oláh 2013).

### **Hydroptilidae Stephens, 1836**

#### ***Catoxyethira vedonga* Oláh, 1989**

*Catoxyethira vedonga* Oláh, 1989: 266.

*Type locality.* Vietnam, Cucphuong, 400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Karstic spring brooks in rain forest (Oláh 1989).

*Distribution.* **Vietnam** (Thanh Hoa Province: Oláh 1989).

#### ***Chrysotrichia bachma* Murray-Stoker & Morse, 2020**

*Chrysotrichia bachma* Murray-Stoker & Morse, 2020 in Murray-Stoker et al. 2020: 100.

*Type locality.* Vietnam, Thừa Thiên Huế Province, Bach Mã National Park, tributary to Pheasant Falls (tributary to Truoi River), 16.2287°N, 107.8486°E, 159 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams (Murray-Stoker et al. 2020).

*Distribution.* **Vietnam** (Thừa Thiên Huế Province: Murray-Stoker et al. 2020).

#### ***Chrysotrichia choliona* Oláh, 1989**

*Chrysotrichia choliona* Oláh, 1989: 264.

*Type locality.* Vietnam, Son La Province, Moc Chau.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring brooks (Oláh 1989).

*Distribution.* **Vietnam** (Son La Province: Oláh 1989).

#### ***Chrysotrichia echna* Oláh & Johanson, 2010**

*Chrysotrichia echna* Oláh & Johanson, 2010f: 130.

*Type locality.* Vietnam, Lamdong Province, Baoloc, River Da Nga.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Chrysotrichia hacha* Oláh & Johanson, 2010**

*Chrysotrichia hacha* Oláh & Johanson, 2010f: 131.

*Type locality.* Vietnam, Lamdong Province, Baoloc, River Da Nga.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers (Oláh & Johanson 2010f).

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Chrysotrichia hailana* Oláh & Johanson, 2010**

*Chrysotrichia hailana* Oláh & Johanson, 2010f: 133.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Loch Chau Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Chrysotrichia monga* Oláh, 1989**

*Chrysotrichia monga* Oláh, 1989: 265.

*Type locality.* Vietnam, Cucphuong, 400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Karstic spring brooks (Oláh 1989).

*Distribution.* **Malaysia** (Malicky 2010a), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Thanh Hoa Province: Oláh 1989; Bac Kan Province: Oláh 1989).

#### ***Chrysotrichia serrula* Oláh & Johanson, 2010**

*Chrysotrichia serrula* Oláh & Johanson, 2010f: 138.

*Type locality.* Vietnam, Lamdong Province, Baoloc, loc Chau Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Chrysotrichia thira* Oláh & Johanson, 2010**

*Chrysotrichia thira* Oláh & Johanson, 2010f: 138.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Hydroptila dayung* Wells & Huisman, 1992**

*Hydroptila dayung* Wells & Huisman, 1992: 105.

*Type locality.* Malaysia, East Malaysia, Sabah, 60 km W Lahad Datu, DVFC, confluence Sg. Segama – Sg. Palum Tambun, 4°58'N, 117°48'E, 150 m.

*Type depository.* Male holotype in RMNH.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2010a), **Malaysia** (Wells & Huisman 1992), **Taiwan** (Malicky 2014a; Malicky & Chantaramongkol 2007), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2007).

***Hydroptila gapdoi* Oláh, 1989**

*Hydroptila gapdoi* Oláh, 1989: 283.

*Hydroptila acrodonta* Xue & Yang, 1990: 126; Wells & Malicky 1997: 183.

*Type locality.* Vietnam, Tamdao, 800 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989). Swampy area (Oláh & Johanson 2010f).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Oláh & Johanson 2010f), **Indonesia** (Malicky 2007b; Malicky & Chantaramongkol 2007; Wells & Malicky 1997), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Vinh Phuc Province: Oláh 1989).

*Remarks.* Wells & Malicky (1997a) indicated that *Hydroptila gapdoi* and *Hydroptila acrodonta*

might be synonyms but without making a conclusion about that. This idea was in concordance with that of Malicky & Chantaramongkol (2007).

***Hydroptila gaya* Oláh, 1989**

*Hydroptila gaya* Oláh, 1989: 278.

*Type locality.* Vietnam, Tamdao, 200 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small tributaries and streams (Oláh 1989).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Bac Kan Province: Oláh 1989. Hoa Binh Province: Oláh 1989. Thanh Hoa Province: Oláh 1989. Vinh Phuc Province: Oláh 1989).

***Hydroptila giama* Oláh, 1989**

*Hydroptila giama* Oláh, 1989: 285.

*Hydroptila hubenovi* Kumanski, 1990; Malicky 2013: 42.

*Type locality.* Vietnam, Tamdao, 1300 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989). Low-altitude stony stream (Kumanski 1990). Streams (Oláh & Johanson 2010f).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Oláh & Johanson 2010f), **North Korea** (Kumanski 1990; Park & Kong 2020), **Vietnam** (Lao Cai Province: Mey 2005a; Vinh Phuc Province: Oláh 1989; Yang et al. 2005).

***Hydroptila khonga* Oláh & Johanson, 2010**

*Hydroptila khonga* Oláh & Johanson, 2010f: 80.

*Type locality.* Lamdong Province, Baoloc, Baco stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Hydroptila namcattien* Malicky & Chantaramongkol, 2007**

*Hydroptila namcattien* Malicky & Chantaramongkol, 2007: 1020.

*Hydroptila motminh* Oláh & Johanson, 2010; Malicky 2013: 43.

*Type locality.* Vietnam, Nam Cat Tien, 11°26' N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Brooks and small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Thailand** (Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2007).

#### ***Hydroptila ngaythibaya* Oláh, 1989**

*Hydroptila ngaythibaya* Oláh, 1989: 283.

*Type locality.* Vietnam, Ngoclac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Rivers (Oláh 1989).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 1989. Hoa Binh Province: Oláh 1989. Thanh Hoa Province: Oláh 1989).

#### ***Hydroptila orion* Malicky & Chantaramongkol, 2007**

*Hydroptila orion* Malicky & Chantaramongkol, 2007: 1018.

*Type locality.* Thailand, Tung Salaeng National Park, 16°49'N, 100°49'E, 600 m.

*Type depository.* Male holotype in MPC.

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Hydroptila portunus* Malicky & Chantaramongkol, 2007**

*Hydroptila portunus* Malicky & Chantaramongkol, 2007: 1013.

*Type locality.* Laos, Prov Viangchan, Phou Khao Khouay National Park, Tad Leuk, 90 km E Vientiane, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Tributaries (Malicky, Suwannarat & Laudee 2018). Rivers and shallow, slow-flowing

streams in forest (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Laos** (Malicky & Chantaramongkol 2007), **Thailand** (Laudee & Prommi 2011; Malicky, Ivanov & Melnitsky 2020; Malicky, Suwannarat & Laudee 2018), **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010f).

#### ***Hydroptila sidong* Oláh, 1989**

*Hydroptila sidong* Oláh, 1989: 284.

*Hydroptila tiani* Yang & Xue, 1992; Malicky 2013: 43.

*Type locality.* Vietnam, Tamdao, 200 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh 1989).

*Remarks.* The male was re-described by Zhou, Sun & Yang (2009a).

#### ***Hydroptila thaphena* Oláh, 1989**

*Hydroptila thaphena* Oláh, 1989: 280.

*Hydroptila triangula* Xue & Yang, 1990; Oláh & Johanson 2010f: 86.

*Type locality.* Vietnam, Tamdao, 200 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **China** (Xue, Luo & Guo 1992; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh 1989).

#### ***Hydroptila theano* Malicky & Chantaramongkol, 2007**

*Hydroptila theano* Malicky & Chantaramongkol, 2007: 1011.

*Type locality.* Thailand, Huai Huat National Park, 16°55'N, 104°11'E, 400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Hydroptila thiba* Oláh, 1989**

*Hydroptila thiba* Oláh, 1989: 277.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams and waterfalls in streams (Oláh 1989).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Yang, Sun & Morse 2016), **Vietnam** (Hoa Binh Province: Oláh 1989. Vinh Phuc Province: Oláh 1989).

#### ***Hydroptila thisa* Oláh, 1989**

*Hydroptila thisa* Oláh, 1989: 279.

*Type locality.* Vietnam, Hoabinh, 8 km from the city in the direction of Dabac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Vietnam** (Hoa Binh Province: Oláh 1989. Son La Province: Oláh 1989).

#### ***Hydroptila thuna* Oláh, 1989**

*Hydroptila thuna* Oláh, 1989: 281.

*Hydroptila apiculata* Yang & Xue, 1992; Malicky & Chantaramongkol 2007: 1023.

*Hydroptila molione* Malicky, 2004; Malicky & Chantaramongkol 2007: 1023.

*Hydroptila triangularis* Wells & Dudgeon 1990; Wells & Malicky 1997: 183.

*Type locality.* Vietnam, Hoabinh, 8 km from Hoabin in the diorection of Dabac.

*Type depository.* Male holotype in HNHM, Hungary.

*Habitat.* Small streams (Oláh 1989, Oláh & Johanson 2010f). Streams (Bunlue *et al.* 2012). Rivers (Malicky, Melnitsky & Ivanov 2014). Brooks and small rivers (Malicky, Ivanov & Melnitsky 2020). Streams in mountain and lowland areas (Ito, Ohkawa, Hattori 2011). *Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Xue, Luo & Guo 1992; Yang, Sun & Morse 2016), **India** (Oláh 1989), **Indonesia** (Malicky 2007b; Wells & Malicky 1997), **Japan** (Ito 2015; Ito, Ohkawa, Hattori 2011), **Laos** (Malicky & Chantaramongkol 2007; Oláh & Johanson 2010f), **Nepal** (Malicky 2004; Malicky & Chantaramongkol 2007; Mattern 2015), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016), **Tai**

**wan** (Malicky 2014a; Malicky & Chantaramongkol 2007), **Thailand** (Bunlue *et al.* 2012; Laudee & Prommi 2011; Malicky & Chantaramongkol 2007; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Bac Kan Province: Oláh 1989. Hoa Binh Province: Oláh 1989. Vinh Phuc Province: Oláh 1989. Ha Phong City: Oláh 1989. Son La Province: Oláh 1989. Thanh Hoa Province: Oláh 1989).

*Remarks.* The male and female were re-described by Ito, Ohkawa & Hattori (2011a). Japanese records of *Hydroptila phenianica* by Shimura (2010) is based on misidentification (Ito 2015a).

#### ***Hydroptila venus* Malicky & Chantaramongkol, 2007**

*Hydroptila venus* Malicky & Chantaramongkol, 2007: 1016.

*Type locality.* Malaysia, Perak, Belum exp base camp, 5°30'N, 101°26'E, 250 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Malaysia** (Malicky & Chantaramongkol 2007), **Thailand** (Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Malicky, Ivanov & Melnitsky 2020).

*Remarks.* Malicky, Ivanov & Melnitsky (2020) listed the species from Vietnam without collecting data, but excluded Malaysia. Despite absence of data connected with the record the species is included herein.

#### ***Hydroptila vitcona* Oláh & Johanson, 2010**

*Hydroptila vitcona* Oláh & Johanson, 2010f: 88.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Loc Chau Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Microptila dironga* Oláh & Johanson, 2010**

*Microptila dironga* Oláh & Johanson, 2010f: 90.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Baco Stream, 26-x-1988, net leg Oláh.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

#### ***Microptila hintama* Oláh, 1989**

*Microptila hintama* Oláh, 1989: 271.

*Microptila xedapa* Oláh, 1989; Malicky & Chantaramongkol 2007: 1026.

*Type locality.* Vietnam, Hoabinh, 20 km from the city in the direction of Tanlac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small streams, waterfalls (Oláh 1989). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 2007), **Vietnam** (Hoa Binh Province: Oláh 1989. Lam Dong Province: Oláh & Johanson 2010f. Vinh Phu Province: Oláh 1989;).

*Remarks.* Male re-described by Malicky & Chantaramongkol (2007).

#### ***Orthotrichia bencana* Oláh, 1989**

*Orthotrichia bencana* Oláh, 1989: 291.

*Orthotrichia adunca* Yang & Xue, 1992; Malicky & Chantaramongkol 2007: 1041.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams and rivers (Oláh 1989).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Bac Kan Province: Oláh 1989).

#### ***Orthotrichia indica* Martynov, 1935**

*Orthotrichia indica* Martynov, 1935a: 116.

*Type locality.* Myanmar, Inlé Lake, S. Shan States.

*Type depository.* Male holotype in the IMK.

*Habitat.* Streams and lakes (Oláh 1989). Streams (Oláh & Johanson 2010f). Lakes (Martynov 1935a).

*Distribution.* **India** (Oláh 1989), **Indonesia** (Malicky 2007b; Malicky & Chantaramongkol 2007), **Laos** (Oláh & Johanson 2010f), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Myanmar** (Martynov 1935a; Wityi, Nozaki & Fujino 2015), **Sri Lanka** (Malicky & Chantaramongkol 2007), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Ha Noi: Oláh 1989, Vinh Phuc Province: Oláh 1989).

*Remarks.* The male was re-described by Oláh (1989a).

#### ***Orthotrichia litoralis* (Ulmer, 1951)**

*Baliotrichia litoralis* Ulmer, 1951: 89.

*Orthotrichia litoralis* (Ulmer 1951); Marshall 1979: 213.

*Orthotrichia littoralis* [sic]; Mattern 2015: 501.

*Orthotrichia kasyi* Chantaramongkol & Malicky, 1986; Malicky & Chantaramongkol 2007: 1033.

*Orthotrichia veikaba* Wells, 1991; Malicky & Chantaramongkol 2007: 1033.

*Type locality.* Indonesia, Bali, Baturiti-See.

*Type depository.* Male holotype in ZMH.

*Habitat.* Lakes (Oláh & Johanson 2010f). Lakes (Ulmer 1951).

*Distribution.* **Australia** (Wells & Dostine 2016), **India** (Oláh & Johanson 2010f), **Indonesia** (Malicky 2007b; Ulmer 1951), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Nepal** (Malicky & Chantaramongkol 2007, Mattern 2015), **Papua New Guinea** (Wells 1991), **Sri Lanka** (Chantaramongkol & Malicky 1986), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2007).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2007).

#### ***Orthotrichia luonga* Oláh, 1989**

*Orthotrichia luonga* Oláh, 1989: 289.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Phuluong, Dongdat River.

*Type depository.* Male holotype in HNHM.

*Habitat.* Rivers (Oláh 1989).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 1989; Hoa Binh Province: Oláh 1989).



***Orthotrichia maeandrica* (Ulmer 1951)**

*Javanotrichia maeandrica* Ulmer, 1951: 76.

*Orthotrichia maeandrica* (Ulmer 1951); Marshall 1979: 213.

*Type locality.* Indonesia, Java, Buitenzorg, Bellevue.

*Type depository.* Male holotype in ZMH.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky 2007b; Ulmer 1951), **Laos** (Oláh & Johanson 2010f), **Malaysia** (Malicky & Chantaramongkol 2007; Malicky, Ivanov & Melnitsky 2014), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2007).

***Orthotrichia momanga* Oláh, 1989**

*Orthotrichia momanga* Oláh, 1989: 290.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 1989).

***Orthotrichia monga* Oláh & Johanson, 2010**

*Orthotrichia monga* Oláh & Johanson, 2010f: 117.

*Type locality.* Vietnam, Lamdong Province, Dalat, Prenn Waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers and waterfalls (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Orthotrichia prena* Oláh & Johanson, 2010**

*Orthotrichia prena* Oláh & Johanson, 2010f: 121.

*Type locality.* Vietnam, Lamdong Province, Dalat, Prenn waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Waterfalls (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Orthotrichia suchiara* Oláh, 1989**

*Orthotrichia suchiara* Oláh, 1989: 292.

*Type locality.* Vietnam, Ngoclac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Stony streams, rivers (Oláh 1989).

*Distribution.* **Laos** (Oláh & Johanson 2010f), **Vietnam** (Hoa Binh Province: Oláh 1989. Thanh Hoa Province: Oláh 1989).

***Orthotrichia thaleia* Malicky & Chantaramongkol, 2007**

*Orthotrichia thaleia* Malicky & Chantaramongkol, 2007: 1035.

*Type locality.* Vietnam, Nam Cat Tien, 11°26' N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Maicky & Chantaramongkol 2007).

***Orthotrichia tragetti* Mosely, 1930**

*Orthotrichia tragetti* Mosely, 1930: 247.

*Type locality.* United Kingdom, Hampshire, Aubridge Danes, Romsey.

*Type depository.* Male holotype in NHM.

*Habitat.* The littoral zones of lakes water (Bagge 1987). Adults collected at lakes and streams (Arefina, Vshivkova & Morse 2002). Lakes (Mosely 1930). Rivers (Kobayashi, Nozaki & Takemon 2017).

*Distribution.* **China** (Xue, Luo & Guo 1992; Yang, Sun & Morse 2016), **Japan** (Ito 2013; Kobayashi, Nozaki & Takemon 2017; Nozaki 2010a), **Russia** (Arefina, Vshivkova & Morse 2002; Ivanov 2011a; Potikha & Vshivkova 2016; Vshivkova *et al.* 2016), **South Korea** (Park *et al.* 2018; Park & Kong 2020), **Turkey** (Darilmaz & Salur 2015), **Europa** (Neu *et al.* 2018), **Vietnam** (Ha Noi: Oláh 1989).

*Remarks.* The male was re-described by Oláh (1989a). The male and female was re-described by Ito (2013a).

***Orthotrichia tronoca* Oláh & Johanson, 2010**

*Orthotrichia tronoca* Oláh & Johanson, 2010f: 123.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Orthotrichia vertumnus* Malicky & Chantaramongkol, 2007**

*Orthotrichia vertumnus* Malicky & Chantaramongkol, 2007: 1032.

*Type locality.* Vietnam, Nam Cat Tien National Park, 11°26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2007).

***Oxyethira bogambara* Schmid, 1958**

*Oxyethira bogambara* Schmid, 1958: 67.

*Oxyethira hainanensis* Yang & Xue, 1992; Malicky & Chantaramongkol 2007: 1030.

*Oxyethira paramartha* Schmid, 1960; Malicky & Chantaramongkol 2007: 1030.

*Oxyethira haianensi* [sic]; Yang et al. 2005: 458.

*Type locality.* Sri Lanka, Maturata.

*Type depository.* Male holotype in USNM.

*Habitat.* Waterfalls (Oláh & Johanson 2010f). Rivers with waterfalls (Melnitsky & Malicky 2008). Lakes and rivers entering lakes (Mey 2006). Streams (Oláh 1989). Large rocky bed rivers (Schmid 1958).

*Distribution.* **Australia** (Malicky & Chantaramongkol 2007), **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2007b; Malicky & Chantaramongkol 2007; Mey 2006; Oláh & Johanson 2010f), **Malaysia** (Malicky & Chantaramongkol 2007; Malicky, Ivanov & Melnitsky 2014), **Nepal** (Malicky 2017b; Malicky & Chantaramongkol 2007; Mattern 2015), **New Guinea** (Wells 1991), **Pakistan** (Schmid 1960), **Philippines** (Wells 1991), **Sri Lanka** (Schmid 1958), **Taiwan** (Malicky & Chantaramongkol 2007), **Thailand** (Malicky & Chantaramongkol 2007; Melnitsky & Malicky 2008), **Vietnam** (Bac Kan

Province: Oláh 1989; Hai Phong City: Oláh 1989; Thanh Hoa Province: Oláh 1989; Son La Province: Oláh 1989; Lam Dong Province: Oláh & Johanson 2010f).

*Remarks.* The male was re-described by Oláh 1989. The male was re-described and the female edescribed by Wells (1991).

***Oxyethira campanula* Botosaneanu, 1970**

*Oxyethira campanula* Botosaneanu, 1970: 291.

*Oxyethira aspera* Yang & Kelley, 1997; Malicky & Chantaramongkol 2007: 1030.

*Oxyethira lobophora* Mey, 1998; Wells & Mey 2002: 130.

*Oxyethira paieon* Malicky, 2004; Malicky & Chantaramongkol 2007: 1030.

*Type locality.* Democratic People's Republic of Korea, Mts. Mjohjang-dsan, district Hjangsan, Hjangam-ri.

*Type depository.* Male holotype in MZPW.

*Habitat.* Mountain streams (Botosaneanu 1970). Large streams (Malicky 2004).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2007b; Oláh & KA Johanson 2010f), **North Korea** (Botosaneanu 1970; Park & Kong 2020), **Laos** (Oláh & KA Johanson 2010f), **Nepal** (Malicky 2004; Mattern 2015), **Philippines** (Mey 1998b; Wells & Mey 2002), **Taiwan** (Malicky 2014a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Lam Dong Province: Oláh & KA Johanson 2010f).

*Remarks.* Male re-described by Malicky & Chantaramongkol (2007).

***Oxyethira datra* Oláh, 1989**

*Oxyethira datra* Oláh, 1989: 287.

*Oxyethira josifovi* Kumanski, 1990; Malicky & Chantaramongkol 2007: 1030.

*Type locality.* Vietnam, Cucphuong, 400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Rivers, streams and ponds (Arefina, Vshivkova & Morse 2002; Nozaki & Tanida 2007). Streams and small torrents (Kumanski 1990a).

*Distribution.* **Japan** (Malicky & Chantaramongkol 2007; Nozaki & Tanida 2007), **North Korea** (Park & Kong 2020), **Russia** (Arefina, Vshivkova & Morse 2002), **Vietnam** (Thanh Hoa Province: Oláh 1989).

*Remarks.* According to Oláh & Ito (2013a) the record from Japan by Malicky & Chantaramongkol (2007) invalid. The male holotype was re-described by Oláh & Ito (2013a).

### ***Oxyethira falcata* Morton, 1893**

*Oxyethira falcata* Morton, 1893: 80.

*Oxyethira galcata* [sic]; Armitage et al. 2005.

*Oxyethira assia* Botosaneanu & Moubayed in Moubayed & Botosaneanu, 1985; Malicky 2005c: 547.

*Oxyethira bidentata* Nybom, 1948; Nybom 1954: 1.

*Oxyethira boreella* Svensson & Tjeder, 1975; Malicky 2007c: 51.

*Oxyethira dentata* Nybom, 1954; Kelley 1984: 186.

*Oxyethira rhodani* Schmid, 1947; Schmid 1960: 98.

*Type locality.* [United Kingdom] Scotland, Redmyre Loch, near Carluke, about 600 ft.

*Type depository.* Type (unspecified gender) possibly in NHM.

*Habitat.* Mainly standing water (Graf et al. 2008), in Lebanon found in karst springs and spring streams at medium flow to larger streams, current moderate to slow, coarse substrate with sparse vegetation near the banks, presence of mosses in channeled springs and also with dense macrophyte vegetation (Moubayed & Botosaneanu 1985).

*Distribution.* **Algeria** (Morton 1896), **China** (Yang, Sun & Morse 2016), **Europe** (Neu et al. 2018), **Iran** (Mirmoayedi & Malicky 2002), **Kazakhstan** (Smirnova et al. 2016), **Lebanon** (Moubayed & Botosaneanu 1985), **Russia** (Ivanov 2011), **Turkey** (Darilmaz & Salur 2015), **Vietnam** (Lao Cai Province: Mey 2005).

### ***Oxyethira incana* Ulmer, 1906**

*Oxyethira incana* Ulmer, 1906: 102.

*Gnathotrichia australiensis* Wells, 1981; Kelley 1984: 439.

*Stenoxyethira excisa* Kimmins, 1951; Kelley 1984: 439.

*Oxyethira galekoluma* Schmid, 1958; Malicky & Chantaramongkol 2007: 1029.

*Gnathotrichia isabellina* Ulmer, 1951; Marshall 1979: 207.

*Type locality.* Indonesia, Pekalongan, v. Deventer.

*Type depository.* Female holotype in ZMH.

*Habitat.* Large rocky bed rivers (Schmid 1958). Rivers (Wells 1981).

*Distribution.* **Australia** (Wells 1981), **Indonesia** (Malicky 2007b; Ulmer 1906; Ulmer 1951), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Myanmar** (Kimmins 1951; Wityi, Nozaki & Fujino 2015), **New Caledonia** (Wells & Johanson 2015), **Sri Lanka** (Schmid 1958), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f; Thua Thien-Hue Province: Oláh & Johanson 2010f).

*Remarks.* The male and female were re-described by Wells (1990) and the male again by Wells & Johanson (2015a). Malicky (2013a) referred to Ulmer 1907 instead of Ulmer 1906 as the author and date.

### ***Plethus banchaia* Oláh, 1989**

*Plethus banchaia* Oláh, 1989: 261.

*Type locality.* Vietnam, Tamdao, 1300 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Vinh Phuc Province: Oláh 1989).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2007).

### ***Plethus hinchuna* Oláh & Johanson, 2010**

*Plethus hinchuna* Oláh & Johanson, 2010f: 140.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

### ***Plethus roreta* Oláh, 1989**

*Plethus roreta* Oláh, 1989: 262.

*Type locality.* Vietnam, Tamdao, 1300 m.  
*Type depository.* Male holotype in HNHM.  
*Habitat.* Streams and waterfalls in streams (Oláh 1989).  
*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1989).

***Plethus sigiama* Oláh, 1989**

*Plethus sigiama* Oláh, 1989: 260.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh.  
*Type depository.* Male holotype in HNHM.  
*Habitat.* Small spring waterfalls (Oláh 1989).  
*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1989).

***Plethus toana* Oláh, 1989**

*Plethus toana* Oláh, 1989: 263.

*Type locality.* Vietnam, Tamdao, 1300 m.  
*Type depository.* Male holotype in HNHM.  
*Habitat.* Streams (Oláh 1989).  
*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1989).

***Pseudoxyethira cavernosa* (Mey, 1996)**

*Scelotrichia cavernosa* Mey, 1996a: 50.  
*Orientalitrichia cavernosa* (Mey, 1996); Koçak & Kemal 2012: 4.  
*Pseudoxyethira cavernosa* (Mey, 1996a); Zheu, Yang & Morse 2016: 214.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400–1600 m.  
*Type depository.* Male holotype in ZMHB.  
*Habitat.* Unknown.  
*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Pseudoxyethira nana* (Mey, 1996)**

*Sclerotrichia nana* Mey, 1996a: 50.  
*Orientalitrichia nana* (Mey, 1996); Koçak & Kemal 2012: 4.  
*Pseudoxyethira nana* (Mey, 1996); Zheu, Yang & Morse 2016: 214.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.  
*Habitat.* Unknown.  
*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Pseudoxyethira rincorama* (Oláh, 1989)**

*Sclerotrichia rincorama* Oláh, 1989: 269.  
*Orientalitrichia rincorama* (Mey, 1996); Koçak & Kemal 2012: 4.  
*Pseudoxyethira rincorama* (Oláh, 1989); Zheu, Yang & Morse 2016: 214.

*Type locality.* Vietnam, Tamdao, 1300 m.  
*Type depository.* Male holotype in HNHM.  
*Habitat.* Streams and waterfalls in streams (Oláh 1989).  
*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1989).

***Pseudoxyethira thingana* (Oláh, 1989)**

*Sclerotrichia thingana* Oláh, 1989: 267.  
*Orientalitrichia thingana* (Mey, 1996); Koçak & Kemal 2012: 4.  
*Pseudoxyethira thingana* (Oláh, 1989); Zhou, Yang & Morse 2016: 214.

*Type locality.* Vietnam, Tamdao, 200 m.  
*Type depository.* Male holotype in HNHM.  
*Habitat.* Streams (Oláh 1989). Waterfalls and very fast streams with large rocks (Ito 2017a). Tributaries (Zhou, Yang & Morse 2016).  
*Distribution.* **China** (Zhou, Yang & Morse 2016), **Japan** (Ito 2017a), **Vietnam** (Vinh Phuc Province: Oláh 1989).

*Remarks.* The male was re-described by Ito (2017) and Zhou, Yang & Morse (2016).

***Pseudoxyethira thunama* (Oláh, 1989)**

*Sclerotrichia thunama* Oláh, 1989: 270.  
*Orientalitrichia thunama* (Mey, 1996); Koçak & Kemal 2012: 4.  
*Pseudoxyethira thunama* (Oláh, 1989); Zheu, Yang & Morse 2016: 214.

*Type locality.* Vietnam, Cucphuong, 400 m.

*Type depository.* Male holotype in HNHM.  
*Habitat.* Karstic spring brooks in rain forest (Oláh 1989).

*Distribution.* **Vietnam** (Thanh Hoa Province: Oláh 1989).

***Pseudoxyethira toira* (Oláh, 1989)**

*Sclerotrichia toira* Oláh, 1989: 268.

*Orientalitrichia toira* (Mey, 1996); Koçak & Kemal 2012: 4.

*Pseudoxyethira toira* (Oláh, 1989); Zheu, Yang & Morse 2016: 214.

*Type locality.* Vietnam, Tamdao, 1300 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1989).

***Stactobia banra* Oláh, 1989**

*Stactobia banra* Oláh, 1989: 259.

*Stactobia banga* [sic]; Armitage et al. 2005: 28.

*Type locality.* Vietnam, Ha Son Binh Province, Hoa Binh.

*Type depository.* Male holotype in HNHM.

*Habitat.* Karstic spring brooks (Oláh 1989).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1989).

***Stactobia bienda* Oláh, 1989**

*Stactobia bienda* Oláh, 1989: 255.

*Type locality.* Vietnam, Cucphuong, 400 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Karstic spring brooks (Oláh 1989).

*Distribution.* **Vietnam** (Thanh Hoa Province: Oláh 1989).

***Stactobia regularis* Mey, 1996**

*Stactobia regularis* Mey, 1996a: 50.

*Type locality.* Vietnam, Okuiho, 14 km nördlich Sa Pa, am Fuße des Fan Si Pan Bergmassiv, 1100 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Stactobia thacla* Oláh, 1989**

*Stactobia thacla* Oláh, 1989: 256.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu village.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 1989).

***Stactobia trungcha* Oláh, 1989**

*Stactobia trungcha* Oláh, 1989: 258.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu village.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 1989).

***Stactobiella danra* Oláh & Johanson, 2010**

*Stactobiella danra* Oláh & Johanson, 2010f: 151.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010f).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010f).

***Tricholeiochiton fortensis* (Ulmer, 1951)**

*Synagotrichia fortensis* Ulmer, 1951: 82.

*Tricholeiochiton fortensis* (Ulmer, 1951); Marshall 1979: 210.

*Tricholeiochiton lacustris* Kimmins, 1951; Malicky 2013: 43.

*Type locality.* Indonesia, Sumatra, Fort de Kock.

*Type depository.* Male holotype in ZMH.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky 2007b; Ulmer 1951), **Malaysia** (Malicky 2010a), **Myanmar** (Kimmins 1951; Wityi, Nozaki & Fujino

2015), **Nepal** (Malicky & Chantaramongkol 2007, Mattern 2015), **Thailand** (Malicky & Chantaramongkol 2007), **Vietnam** (Vinh Phuc Province: Malicky & Chantaramongkol 2007).

***Ugandatrichia frigoris* Mey, 1998**

*Ugandatrichia frigoris* Mey, 1998a: 7.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1400 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Spring stream in primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Ugandatrichia hairanga* Oláh, 1989**

*Ugandatrichia hairanga* Oláh, 1989: 274.

*Type locality.* Vietnam, Tamdao, 1300 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1989). Streams (Bunlue et al. 2012). Waterfall (Malicky & Chantaramongkol 1991a). Waterfalls on bare rock (Malicky, Ivanov & Melnitsky 2020). Waterfall (Laudee 2008).

*Distribution.* **Malaysia** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1991a; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Vinh Phuc Province: Oláh 1989).

*Remarks.* The larva was described by Laudee (2008a).

***Ugandatrichia hongia* Oláh, 1989**

*Ugandatrichia hongia* Oláh, 1989: 275.

*Ugandatrichia navicularis* Xue & Yang, 1990; Malicky & Chantaramongkol 1991a: 82.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laudee & Prommi 2011a). Streams (Murray-Stoker et al. 2020; Oláh 1989). Streams (Bunlue et al. 2012). Waterfall

(Malicky & Chantaramongkol 1991a). Waterfalls (Laudee 2008).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Oláh & Johanson 2010f), **Thailand** (Bunlue et al. 2012, Laudee & Prommi 2011, Malicky & Chantaramongkol 1991a), **Vietnam** (Hoa Binh Province: Oláh 1989. Thừa Thiên Huế Province: Murray-Stoker et al. 2020. Vinh Phuc Province: Oláh 1989).

*Remarks.* The larva was described by Laudee (2008a).

***Ugandatrichia sanana* Oláh, 1989**

*Ugandatrichia sanana* Oláh, 1989: 276.

*Ugandatrichia spinata* Wells & Dudgeon, 1990; Malicky 2013: 43.

*Type locality.* Vietnam, Tamdao, 800 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small sun exposed stream (Oláh 1989).

*Distribution.* **China** (Wells & Dudgeon 1990; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh 1989).

***Vietrichia linghia* Oláh, 1989**

*Vietrichia linghia* Oláh, 1989: 274.

*Type locality.* Vietnam, Hoabinh, 20 km in the direction of Tanlac.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small waterfall (Oláh 1989).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1989).

**Lepidostomatidae Ulmer, 1903**

***Lepidostoma aranos* Oláh, 2013**

*Lepidostoma aranos* Oláh, 2013a: 112.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh 2013).

*Distribution.* **Vietnam** (Kon Tum Province: Oláh 2013; Lam Dong Province: Oláh 2013).

***Lepidostoma arcuatum* (Hwang, 1957)**

*Goerinnella arcuata* Hwang, 1957: 402.

*Lepidostoma arcuatum* (Hwang, 1957); Weaver 2002a: 183.

*Type locality.* China, Fujian, Shaowu.

*Type depository.* Male lectotype in NAU.

*Habitat.*

*Distribution.* **China** (Hwang 1957; Yang, Sun & Morse 2016), **Laos** (Malicky 2010a), **Vietnam** (Lao Cai Province: Mey 2005a, Yang & Weaver 2002).

*Remarks.* The male was re-described by Yang & Weaver (2002a). The larva, pupa and case was described by Shan & Yang (2004a).

***Lepidostoma bamboo* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma bamboo* Weaver, Arefina-Armitage & Armitage, 2010: 426.

*Type locality.* Vietnam, Lao Cai, ca. 12 km along road from Sa Pa to Lai Chau, 22.35°N, 103.77°E, 1950 m.

*Type depository.* Male holotype in ROM.

*Habitat.* 6 meter wide stream in bamboo forest (Weaver, Arefina-Armitage & Armitage 2010).

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma cataracta* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma cataracta* Weaver, Arefina-Armitage & Armitage, 2010: 418.

*Type locality.* Vietnam, Lao Cai, Sa Pa, large waterfall on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma crepusculum* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma crepusculum* Weaver, Arefina-Armitage & Armitage, 2010: 420.

*Type locality.* Vietnam, Quang Nam, Ngoc Linh, 1470 m, 15.00°N, 108.04°E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma dipterocarpium* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma dipterocarpium* Weaver, Arefina-Armitage & Armitage, 2010: 429.

*Type locality.* Vietnam, Thua Thien-Hue, Bach Ma National Park, Parashorea trail, dipterocarp forest, 9 km from park entrance, 16.20°N, 107.85°E, 1000 m.

*Type depository.* Male holotype in ROM.

*Habitat.* Streams in dipterocarp forest, and semitropical evergreen forest (Weaver, Arefina-Armitage & Armitage 2010).

*Distribution.* **Vietnam** (Quang Nam Province: Weaver, Arefina-Armitage & Armitage 2010; Thua Thien-Hue Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma doligung* (Malicky, 1979)**

*Goerodes doligung* Malicky, 1979: 100.

*Lepidostoma doligung* (Malicky, 1979); Weaver 2002a: 184.

*Type locality.* India, Süd-Andaman, Nayachul-Fluß bei Mongelutonge.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Streams (Bunlue *et al.* 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014;), **China** (Yang, Sun & Morse 2016), **India** (Malicky 1979; Yang *et al.* 2005), **Indonesia** (Malicky 2007b; Yang *et al.* 2005), **Japan** (Shimura 2010; Tanida & Kuranishi 2016), **Laos** (Unspecified province: Malicky 2010a), **Taiwan** (Malicky 2014a; Yang *et al.* 2005),

**Thailand** (Bunlue *et al.* 2012; Prommi & Chantaramongkol 2005; Thapanya, Bunlue & Chantaramongkol 2013; Yang *et al.* 2005), **Vietnam** (Hoa Binh Province: Yang & Weaver 2002; Yang *et al.* 2005).

***Lepidostoma egenes* Oláh, 2013**

*Lepidostoma egenes* Oláh, 2013a: 105.

*Type locality.* Vietnam, Hoa Binh Province, Hoa Binh, 8 km to Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 2013. Son La Province: Oláh 2013).

***Lepidostoma erech* Malicky, 2008**

*Lepidostoma erech* Malicky, 2008a: 52.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a).

***Lepidostoma esau* Malicky, 2008**

*Lepidostoma esau* Malicky, 2008a: 52.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a).

***Lepidostoma esban* Malicky, 2008**

*Lepidostoma esban* Malicky, 2008a: 52.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Springs and spring brooks in forest (Oláh 2013).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a, Oláh 2013).

***Lepidostoma ezer* Malicky, 2008**

*Lepidostoma ezer* Malicky, 2008a: 56.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a).

***Lepidostoma fansipanense* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma fansipanense* Weaver, Arefina-Armitage & Armitage, 2010: 412.

*Type locality.* Vietnam, Fan Si Pan, Sa Pa.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma fedos* Oláh, 2013**

*Lepidostoma fedos* Oláh, 2013a: 113.

*Type locality.* Vietnam, Lao Cai Province, Fan Si Pan Mts, 14 km NW Sa Pa, 22°20.9'N 103°46.06'E, 1900–2000 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Lepidostoma flavum* (Ulmer, 1926)**

*Crunoeciella flava* Ulmer, 1926: 83.

*Goerodes flavus* (Ulmer, 1926); Fischer 1970: 20.

*Lepidostoma flavum* (Ulmer, 1926); Weaver 2002a: 184.

*Type locality.* China, Kuangtung Province, Mahn tsi shan.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams in mixed hardwood and bamboo forests (Ulmer 1926).

*Distribution.* **China** (Yang & Weaver 1997; Yang, Sun & Morse 2016), **Laos** (Malicky 2010a), **Vietnam** (Unspecified province: Malicky 2010a).



*Remarks.* The male was re-described by Yang & Weaver (2002a). The larva was described by Yang & Yang (2002).

***Lepidostoma fura* Oláh, 2013**

*Lepidostoma fura* Oláh, 2013a: 106.

*Type locality.* Vietnam, Cucphuong National Park.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks in forested karstic area (Oláh 2013).

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh 2013).

***Lepidostoma gad* Malicky, 2008**

*Lepidostoma gad* Malicky, 2008a: 52.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a).

***Lepidostoma gomer* Malicky, 2009**

*Lepidostoma gomer* Malicky, 2009a: 49.

*Type locality.* Vietnam, Gia Lai, Ankhe District, Tram Lap, Azun River, 2 km NW on trail from forestry building, 14°27'N, 108°33'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Rivers (Malicky 2009a). Small tributary (Oláh 2013).

*Distribution.* **Vietnam** (Kon Tum Province: Oláh 2013; Lam Dong Province: Oláh 2013; Quang Tri Province: Oláh 2013; Vinh Phuc Province: Oláh 2013; Gia Lai Province: Malicky 2009a).

***Lepidostoma hansmalickyi* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma hansmalickyi* Weaver, Arefina-Armitage & Armitage, 2010: 408.

*Type locality.* Vietnam, Lao Cai, Sa Pa, large waterfall on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013, Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma hinnuleus* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma hinnuleus* Weaver, Arefina-Armitage & Armitage, 2010: 431.

*Type locality.* Vietnam, Lao Cai, 1.5 m wide stream near mt pass on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Streams in secondary forests (Weaver, Arefina-Armitage & Armitage 2010).

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma horgos* Oláh, 2013**

*Lepidostoma horgos* Oláh, 2013a: 107.

*Type locality.* Vietnam, Binh Tri Thien Province [Thua Thien-Hue Province], Bach Ma National Park, 850 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh 2013).

***Lepidostoma incomptum* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma incomptum* Weaver, Arefina-Armitage & Armitage, 2010: 424.

*Type locality.* Vietnam, Ha Giang, 1780 m, 22.77°N, 104.82°E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Giang Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma ives* Oláh, 2013**

*Lepidostoma ives* Oláh, 2013a: 108.

*Type locality.* Vietnam, Lamdong, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh 2013; Lam Dong Province: Oláh 2013; Quang Tri Province: Oláh 2013).

***Lepidostoma laocai* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma laocai* Weaver, Arefina-Armitage & Armitage, 2010: 414.

*Type locality.* Vietnam, Lao Cai, Sa Pa, along road from Quy Hô to Ta Giang Phinh.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma madaras* Oláh, 2013**

*Lepidostoma madaras* Oláh, 2013a: 110.

*Type locality.* Vietnam, Binh Tri Thien Province [Thua Thien-Hue Province], Bach Ma National Park, 1,250 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Small streams (Oláh 2013).

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh 2013).

***Lepidostoma montatan* Malicky & Chantaramongkol, 1994**

*Lepidostoma montatan* Malicky & Chantaramongkol, 1994: 356.

*Type locality.* Thailand, Chiangmai Zoo, 400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Armitage & Arefina-Armitage 2009). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1994), **Vietnam** (Nghe An Province: Armitage & Arefina-Armitage 2009; Thua Thien-Hue Province: Armitage & Arefina-Armitage 2009).

***Lepidostoma moschocerus* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma moschocerus* Weaver, Arefina-Armitage & Armitage, 2010: 422.

*Type locality.* Vietnam, Quang Nam, Ngoc Linh, 920 m, 15.19°N, 108.04°E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma moulmina* (Mosely, 1949)**

*Adinarthrum moulmina* Mosely, 1949a: 238.

*Lepidostoma moulmina* (Mosely, 1949); Weaver 2002a: 182.

*Type locality.* India, Tenasserim, Sukli, 75 km E Moulmein, 600 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Malicky 2019). Streams (Bunlue et al. 2012).

*Distribution.* **Myanmar** (Mosely 1949a; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Mattern 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010, Bunlue et al. 2012; Malicky 2019), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Lepidostoma nyulos* Oláh, 2013**

*Lepidostoma nyulos* Oláh, 2013a: 111.

*Type locality.* Vietnam, Lamdong, Baoloc, Ba-co Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Lepidostoma oblok* Oláh, 2013**

*Lepidostoma oblok* Oláh, 2013a: 115.

*Type locality.* Vietnam, Tam Dao National Park, Tam Dao City, 1,300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring in deep forest (Oláh 2013).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

***Lepidostoma oblokos* Oláh, 2013**

*Lepidostoma oblokos* Oláh, 2013a: 116.

*Type locality.* Vietnam, Tam Dao National Park, 1,400 m, 2 km from Tam Dao City.

*Type depository.* Male holotype in OPC.

*Habitat.* Small-sized streams in dark forest (Oláh 2013).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

***Lepidostoma propriopalpus* (Hwang, 1957)**

*Goerinella propriopalpa* Hwang, 1957: 400.

*Lepidostoma propriopalpus* (Hwang, 1957); Weaver 2002: 186.

*Lepidostoma propriopalpatum* [sic]; Mey 2005: 283.

*Type locality.* China, Fujian, Shaowu.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* The male was re-described by Yang & Weaver (2002a).

***Lepidostoma pseudabruptum* Malicky & Chantaramongkol, 1994**

*Lepidostoma pseudabruptum* Malicky & Chantaramongkol, 1994: 353.

*Type locality.* Thailand, Loei Province, Phu Luang Wildlife Sanctuary, 700-900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams and rivers (Armitage & Arefina-Armitage 2009). Streams (Bunlue et al. 2012). Above waterfalls (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **Laos** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1994), **Vietnam** (Gia Lai Province: Armitage & Arefina-Armitage 2009; Quang Nam Province: Armitage & Arefina-Armitage 2009; Thua Thien-Hue Province: Armitage & Arefina-Armitage 2009; Nghe An Province: Oláh 2013).

***Lepidostoma rovidiv* Oláh, 2013**

*Lepidostoma rovidiv* Oláh, 2013a: 117.

*Type locality.* Vietnam, Lao Cai Province, Sa Pa, Fan-si-pan Mts, 14 km NW Sa Pa, 1,900 m, 22°20.9'N 103°46.06'E.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Lepidostoma sarnak* Oláh, 2013**

*Lepidostoma sarnak* Oláh, 2013a: 118.

*Type locality.* Vietnam, Son La Province, Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Springs (Oláh 2013).

*Distribution.* **Vietnam** (Son La Province: Oláh 2013).

***Lepidostoma teuthis* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma teuthis* Weaver, Arefina-Armitage & Armitage, 2010: 416.

*Type locality.* Vietnam, Fan Si Pan, Sa Pa.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Lepidostoma timbaka* (Mosely, 1949)**

*Anacrunoecia timbaka* Mosely, 1949b: 414.

*Lepidostoma timbaka* (Mosely, 1949; Weaver 2002: 183.

*Dinarthrum hirta* (Navás, 1932); Weaver, Arefina-Armitage & Armitage 2010: 428.

*Lepidostoma navasi* Weaver, 2002; Weaver, Arefina-Armitage & Armitage, 2010: 428.

*Type locality.* [Myanmar] Burma, Kambaiti.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Malicky 2019). Streams (Bunlue et al. 2012).

*Distribution.* **Myanmar** (Mosely 1949b; Wityi, Nozaki & Fujino 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010, Bunlue

et al. 2012; Malicky 2019), **Vietnam** (Lao Cai Province: Navás 1932a).

*Remarks.* The male was re-described by Weaver, Arefina-Armitage & Armitage (2010a).

***Lepidostoma wolframi* Weaver, Arefina-Armitage & Armitage, 2010**

*Lepidostoma wolframi* Weaver, Arefina-Armitage & Armitage, 2010: 410.

*Type locality.* Vietnam, Fan Si Pan, Sa Pa.

*Type depository.* Male holotype in ZMHB.

*Distribution.* **Vietnam** (Lao Cai Province: Weaver, Arefina-Armitage & Armitage 2010).

***Paraphlegopteryx malickyi* Weaver, 1999**

*Paraphlegopteryx malickyi* Weaver, 1999: 446.

*Type locality.* Thailand, Doi Inthanon, 18°35' N, 98°30'E, 2300 m.

*Type depository.* Male holotype in John Weaver Private Collection.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Laos** (Malicky 2010a), **Thailand** (Bunlue et al. 2012; Weaver 1999), **Vietnam** (Lao Cai Province: Mey 2005a, Weaver 1999).

***Paraphlegopteryx meyi* Weaver, 1999**

*Paraphlegopteryx meyi* Weaver, 1999: 453.

*Type locality.* Vietnam, Fan Si Pan mt.

*Type depository.* Male holotype in WUNH.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a, Weaver 1999).

***Paraphlegopteryx subcircularis* Schmid, 1965**

*Paraphlegopteryx subcircularis* Schmid, 1965: 152.

*Type locality.* China, Zhejiang, West Tien-mu-shan.

*Type depository.* Male holotype in ZFMK.

*Distribution.* **China** (Yang, Sun & Morse 2016; Yang & Weaver 1997), **Vietnam** (Unspecified province: Malicky 2010a; Yang et al. 2005).

*Remarks.* The male was re-described by Weaver (1999a) and Yang & Weaver (2002a). It

was reported from Vietnam but no collecting informations have been recorded.

***Paraphlegopteryx tonkinensis* Ulmer, 1907**

*Paraphlegopteryx tonkinensis* Ulmer, 1907a: 6.

*Type locality.* Tonkin, Montes Mauson [Vietnam, Lang Son Province].

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lang Son Province: Ulmer 1907a).

*Remarks.* The male was re-described and the female was described based on re-examination the the type material by Weaver (1999a).

***Zephyropsyche weaveri* Malicky & Chantaramongkol, 1994**

*Zephyropsyche weaveri* Malicky & Chantaramongkol, 1994: 350.

*Type locality.* Thailand, Doi Inthanon, 2300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1994), **Vietnam** (Lao Cai Province: Mey 2005a).

**Leptoceridae Leach, 1815**

***Adicella kalypso* Malicky, 2002**

*Adicella kalypso* Malicky, 2002 in Malicky et al. 2002b: 24.

*Type locality.* Vietnam: Tam Dao, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Vinh Phuc Province: Malicky et al. 2002).

***Adicella kassandra* Malicky, 2002**

*Adicella kassandra* Malicky, 2002 in Malicky et al. 2002b: 28.

*Type locality.* Vietnam: Tam Dao, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky et al. 2002b).

***Adicella palaimon* Malicky, 2006**

*Adicella palaimon* Malicky, 2006b: 1513.

*Type locality.* Vietnam, Nam Cat Tien.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 2006b).

***Adicella penicillaris* Yang & Morse, 2000**

*Adicella penicillaris* Yang & Morse, 2000: 95.

*Type locality.* China, Jiang-xi Province, Qin-hua-he, 57 km N Wu-yuan, 250 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Adicella rhesos* Malicky, 2006**

*Adicella rhesos* Malicky, 2006b: 1512.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2006b).

***Ceraclea helena* Malicky & P Laudee, 2002**

*Ceraclea helena* Malicky & Laudee, 2002 in Malicky et al., 2002b: 20.

*Type locality.* Vietnam: Nam Cat Tien, 11° 26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Laos** (Laudee & Malicky 2017; Malicky et al. 2002), **Thailand** (Malicky et al. 2002; Nuntakwang, Chantaramongkol & Court-

ney 2007), **Vietnam** (Dong Nai Province: Malicky et al. 2002).

***Ceraclea hippodameia* Malicky & Chantaramongkol, 2002**

*Ceraclea hippodameia* Malicky & Chantaramongkol, 2002 in Malicky et al., 2002b: 18.

*Type locality.* Vietnam: Nam Cat Tien, 11° 26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky et al. 2002b), **Vietnam** (Dong Nai Province: Malicky et al. 2002).

***Ceraclea ianthe* Malicky, 2002**

*Ceraclea ianthe* Malicky, 2002 in Malicky et al., 2002b: 22.

*Type locality.* Vietnam: Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky et al. 2002b).

***Ceraclea idaia* Malicky & Chaibu, 2002**

*Ceraclea idaia* Malicky & Chaibu, 2002 in Malicky et al., 2002a: 23.

*Type locality.* Laos, Ban Phabat, 70 km NE Vientiane, 18°16'N, 103°10'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (36 m and below) with mixed bottom of gravel, sand and clay (Laudee & Prommi 2011a).

*Distribution.* **Laos** (Malicky et al. 2002), **Thailand** (Laudee & Prommi 2011; Malicky et al. 2002; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Malicky et al. 2002).

***Ceraclea nycteola* Mey, 1997**

*Ceraclea nycteola* Mey, 1997b: 203.

*Ceraclea celata* Yang & Morse, 2000; Malicky 2013: 51.

*Type locality.* Vietnam, 14 km nordlich von Sa Pa, am FuÙe des Fan Si Pan Bergsmassiv, 1100 m.

*Type depository.* Male holotype in MZHB.

*Habitat.* Unknown.

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

#### ***Ceraclea troilus* Malicky, 2006**

*Ceraclea troilus* Malicky, 2006b: 1516.

*Type locality.* Vietnam, Na Hang, 160 m, NWW Hanoi.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2006b).

#### ***Leptocerus colophallus* Yang & Morse, 1997**

*Leptocerus colophallus* Yang & Morse in Vshivkova, Morse & Yang, 1997a: 179.

*Type locality.* China, San-gang.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Russia** (Ivanov 2011a; Yang et al. 2005), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The species name was given by Vshivkova, Morse & Yang (1997a) in a key p. 179, and illustrations p. 177 (male) p. 178 (female). The type was clarified together with details about type locality and type depository by Yang & Morse (2000a).

#### ***Leptocerus hamatus* Yang & Morse 2000**

*Leptocerus hamatus* Yang & Morse, 2000: 76.

*Type locality.* China, Gui-zhou Province, Hua-xi Xian, 1000 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Vietnam** (Dak Lak

Province: Malicky pers. comm. 2021. Tuyen Quang Province: Malicky pers. comm. 2021).

#### ***Leptocerus masik* Malicky, 1995**

*Leptocerus masik* Malicky, 1995a: 870.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1995a).

#### ***Leptocerus posticooides* Malicky, 1995**

*Leptocerus posticooides* Malicky, 1995a: 870.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Brooks and streams with stone and rock partly covered by mosses, waterfalls (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Thailand** (Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Dong Nai Province: Malicky 1995a).

#### ***Leptocerus tursiops* Malicky 1979**

*Leptocerus tursiops* Malicky, 1979: 102.

*Type locality.* India, Süd-Andaman, Nayachul-Fluß bei Mongelutonge.

*Type depository.* Male holotype in MPC.

*Habitat.* Brooks and small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **India** (Malicky 1979), **Thailand** (Malicky, Ivanov & Melnitsky 2020; Malicky 2010a), **Vietnam** (Unspecified province: Malicky 2010a).

#### ***Oecetis asmada* Malicky 1979**

*Oecetis asmada* Malicky, 1979: 102.

*Type locality.* India, Süd-Andaman, Nayachul-Fluß bei Mongelutonge.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (19 m) with mixed bottom of gravel and sand (Laundee

& Prommi 2011a). Streams (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **India** (Malicky 1979), **Indonesia** (Malicky 2005a; Malicky 2007b), **Thailand** (Laudee & Prommi 2011; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020. Unspecified province: Malicky 2005a. Lam Dong Province: Oláh 2013).

#### ***Oecetis bellula* Yang & Morse, 2000**

*Oecetis bellula* Yang & Morse, 2000: 127.

*Type locality.* China, Jiang-xi Province, Yushan Xian, San-qing-shan, Shuang-xi-he, 80 km S Yo-shan, 470 m.

*Type depository.* Male holotype in NAU.

*Distribution.* **China** (Yang & Morse 2000; Yang et al. 2005), **Vietnam** (Vinh Phuc Province: Oláh 2013).

#### ***Oecetis biramosa* Martynov, 1936**

*Oecetis biramosa* Martynov, 1936: 269.

*Oecetis aglaura* Schmid, 1950; Schmid 1958: 140.

*Type locality.* India, Orissa, Balighai, near Puri.

*Type depository.* Male holotype in IMK.

*Habitat.* Running water at low altitude (36 m) with bottom of gravel, sand and clay (Laudee & Prommi 2011a). Shallow streams below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Large rivers with trees on marshy banks (Schmid 1958). Soft bottom stream (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Malicky 2005a; Martynov 1936), **Malaysia** (Malicky 2005a), **Sri Lanka** (Malicky 2005a; Schmid 1958), **Thailand** (Laudee & Prommi 2011; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007; Sangpradub 2017; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020. Unspecified province: Armitage 2005a, Schmid 1950).

*Remarks.* The male was re-described by Yang & Morse (2000a).

#### ***Oecetis brachyura* Yang & Morse, 1997**

*Oecetis brachyura* Yang & Morse, 1997: 191.

*Oecetis bracyura* [sic]; Nozaki & Nakamura, 2007: 99.

*Type locality.* China, Gui-zhou Province, Hua-xi Xian, 26.25°N, 106.40°E, 1000 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Rivulets (Beketov 2006).

*Distribution.* **China** (Yang et al. 2005), **Japan** (Nozaki & S Nakamura 2007), **Russia** (Beketov 2006), **Vietnam** (Hoa Binh Province: Oláh 2013).

*Remarks.* A complete description was given by Yang & Morse (2000a).

#### ***Oecetis coomana* Navás, 1932**

*Oecetis coomana* Navás, 1932a: 947.

*Type locality.* Tonkin [Vietnam], rég. de Hoa-Bihn [Hoa Binh Province].

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013. Ha Noi: Oláh 2013. Hoa Binh Province: Navás 1932a; Oláh 2013. Lam Dong Province: Oláh 2013. Son La Province: Oláh 2013. Thanh Hoa Province: Oláh 2013. Vinh Phuc Province: Oláh 2013; Schmid 1995a).

#### ***Oecetis diclava* Mey, 1998**

*Oecetis diclava* Mey, 1998a: 16.

*Type locality.* Vietnam, Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005a).

#### ***Oecetis empusa* Malicky & Chaibu, 2000**

*Oecetis empusa* Malicky & Chaibu, 2000 in Malicky et al. 2000b: 30.

*Type locality.* Thailand, Chiangmai, Stream Ping at Ban Ping Khong, 10 km NE Chiang Dao, 19°27'N, 99°00'E, 420 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Brooks and rivers (Malicky, Ivanov & Melnitsky 2020). Waterfall in river (Laudee & Malicky 2017). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Soft bottom streams (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Laudee & Malicky 2017; Malicky 2005a), **Thailand** (Laudee & Prommi 2011; Malicky et al. 2000b; Nuntakwang, Chantaramongkol & Courtney 2007; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020. Unspecified province: Malicky 2005a).

*Remarks.* The wings and male abdominal tergites and genitalia were illustrated by Malicky (2005a). The Vietnamese record was either Tamdao or Nam Cat Tien (Malicky 2005a).

***Oecetis gretae* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis gretae* Johanson, Pham, Malm & Sjöberg, 2020: 314.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, nr. Ngoc Thanh Village, 21°23'40.1''N, 105°42'54.9''E.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis hageni* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis hageni* Johanson, Pham, Malm & Sjöberg, 2020: 319.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, nr. Ngoc Thanh Village, 21°23'38.9''N, 105°42'50.7''E.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis huppini* Malicky, 2009**

*Oecetis huppini* Malicky, 2009a: 49, 52.

*Type locality.* Vietnam, Gia Lai, An Khe District, Tram Lap, Azun River, 2 km NW on train from forestry building, 14°27'N, 108°33'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Gia Lai Province: Malicky 2009a).

***Oecetis iakchos* Malicky & Chantaramongkol, 2005**

*Oecetis iakchos* Malicky & Chantaramongkol, 2005: 620.

*Type locality.* Laos, Central Laos, Kham Muan Province, Ban Khun Ngeun.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Laos** (Malicky 2005a), **Vietnam** (Vinh Phuc Province: Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis iros* Malicky & Bunlue, 2005**

*Oecetis iros* Malicky & Bunlue, 2005 in Malicky, 2005a: 628.

*Type locality.* Thailand, Kao Yai Nationalpark, Kong Keo Waterfall.

*Type depository.* Male holotype in MPC.

*Habitat.* Waterfalls (Malicky 2005a).

*Distribution.* **Laos** (Malicky 2005a), **Thailand** (Malicky 2005a), **Vietnam** (Vinh Phuc Province: Oláh 2013).



***Oecetis ixion* Malicky, 2005**

*Oecetis ixion* Malicky, 2005a: 626.

*Type locality.* Indonesia, Sumatra, Aceh, Krueing Luas, 2°51'N, 97°45'E, 10 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky 2005a; Malicky 2007b), **Malaysia** (Malicky 2005a), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021).

***Oecetis jachin* Malicky & Mey, 2010**

*Oecetis jachin* Malicky & Mey, 2010 in Malicky 2010b: 45.

*Type locality.* Cambodia, Cardamon Mts., Cham Kar Chhrey, 12°20'N, 103°01'E, 350 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Lowland streams in forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Cambodia** (Malicky 2010b), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis jacobsoni* Ulmer, 1930**

*Oecetis jacobsoni* Ulmer, 1930: 465.

*Oecetis naravitta* Schmid 1958; Malicky 2005a: 625.

*Type locality.* Indonesia, Sumatra, Fort de Kock.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at low altitude (4 m) with mixed bottom of clay and sand (Laundee & Prommi 2011a). Rivers (Malicky, Melnitsky & Ivanov 2014). Lakes (Malicky 2017b).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 2007b; Ulmer 1930), **Nepal** (Malicky 2005a; Malicky, 2017b; Malicky 2018a; Mattern 2015), **Sri Lanka** (Malicky 2005a; Schmid 1958), **Thailand** (Laundee & Prommi 2011; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Unspecified province: Malicky 2005a. Lam Dong Province: Oláh 2013).

*Remarks.* The male genitalia were re-described by Schmid (1995a).

***Oecetis kanalas* Oláh, 2013**

*Oecetis kanalas* Oláh, 2013a: 120.

*Type locality.* Vietnam, Hoa Binh Province, Hoabinh, 12 km to Dabac.

*Type depository.* Male holotype in OPC.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Son La Province: Oláh 2013. Thanh Hoa Province: Oláh 2013).

***Oecetis kitar* Oláh, 2013**

*Oecetis kitar* Oláh, 2013a: 124.

*Type locality.* Vietnam, Nghe An Province, Po Phuong Village, 280 m, 19°38.442'N, 104°58.302'E.

*Type depository.* Male holotype in HNHM.

*Distribution.* **Vietnam** (Nghe An Province: Oláh 2013).

***Oecetis koteles* Oláh, 2013**

*Oecetis koteles* Oláh, 2013a: 122.

*Type locality.* Vietnam, Tam Dao, 200 m.

*Type depository.* Male holotype in OPC.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Vinh Phuc Province: Oláh 2013).

***Oecetis lacustris* (Pictet, 1834)**

*Mystacide lacustris* Pictet, 1834: 171.

*Oecetis lacustris* (Pictet, 1834); McLachlan 1877: 333.

*Oecetis lacustris orientalis* Martynov, 1935; Yang & Morse 2000: 117.

*Oecetis lacustris martynovi* Yang & Morse, 2000; Yang & Morse 2000: 117.

*Type locality.* Switzerland, Versoix.

*Type depository.* Gender and depository institution not given.

*Habitat.* Littoral and sublittoral parts of small, eutrophic lakes, on solid bottom of sand and detritus or silt; sometimes among plants; in creeks or mouths of slow rivers; small floodplain water bodies, ponds (Lepneva 1971). Channels and lentic waters with variation in plant cover (Graf et al. 2008).

*Distribution.* **China** (Yang & Morse 2000), **Europe** (Neu et al. 2018), **Mongolia** (Chuluunbat, Morse & Boldbaatar 2016), **Kazakhstan** (Smirnova et al. 2016), **Russia** (Ivanov 2011), **Taiwan** (Malicky 2014a), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* Yang & Morse (2000) indicate that the type material is deposited in Museum of Natural History, Geneva, Switzerland.

#### ***Oecetis ladon* Malicky & Laudee, 2005**

*Oecetis ladon* Malicky & Laudee, 2005 in Malicky, 2005a: 609.

*Type locality.* Nam Cat Tien, 11°26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Malicky 2005a).

#### ***Oecetis laodike* Malicky & Cheunbarn, 2005**

*Oecetis laodike* Malicky & Cheunbarn, 2005 in Malicky, 2005a: 634.

*Type locality.* Vietnam, Nam Cat Tien, 11°26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (5–36 m) with mixed bottom of gravel, sand and clay (Laudee & Prommi 2011a).

*Distribution.* **Thailand** (Laudee & Prommi 2011; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Thamsen-anupap 2012), **Vietnam** (Dong Nai Province: Malicky 2005a).

#### ***Oecetis lata* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis lata* Johanson, Pham, Malm & Sjöberg, 2020: 312.

*Type locality.* Vietnam, Vinh Phuc Province, Me Linh District, nr. Ngoc Thanh Village, 21°23'40.1''N, 105°42'54.9''E.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Vinh Phuc Province: Johanson, Pham, Malm & Sjöberg 2020).

#### ***Oecetis learchos* Malicky & Chantaramongkol, 2005**

*Oecetis learchos* Malicky & Chantaramongkol, 2005; Malicky 2005a: 627.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Vinh Phuc Province: Malicky 2005a).

#### ***Oecetis makris* Malicky, 2005**

*Oecetis makris* Malicky, 2005a: 614.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2005a; Oláh 2013).

#### ***Oecetis malickyi* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis malickyi* Johanson, Pham, Malm & Sjöberg, 2020: 316.

*Type locality.* Vietnam, Ninh Binh Province, immediately S Cuc Phuong National Park, 20.2328°S, 105.6650°E.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Ninh Binh Province: Johanson, Pham, Malm & Sjöberg 2020).

#### ***Oecetis manabat* Malicky, 2009**

*Oecetis manabat* Malicky, 2009a: 49.

*Type locality.* Vietnam, Na Hang, 160 km NWW Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.  
*Habitat.* Rivers (Oláh 2013).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Tuyen Quang Province: Malicky 2009a).

***Oecetis maron* Malicky & Chantaramongkol, 2005**

*Oecetis maron* Malicky & Chantaramongkol in Malicky, 2005a: 613.

*Type locality.* Indonesia, Sumatra, Kebun Sei Kopas.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Johanson, Pham, Malm & Sjöberg 2020). Mountain streams (Nuntakwang, Chantaramongkol & Courtney 2007).

*Distribution.* **Indonesia** (Malicky 2005a), **Malaysia** (Malicky 2005a), **Thailand** (Malicky 2005a), **Vietnam** (Vinh Phuc Province: Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis meghadouta* Schmid 1958**

*Oecetis meghadouta* Schmid, 1958: 148.

*Type locality.* Sri Lanka, Labugama, 173 ft. *Type depository.* Male holotype in USNM. *Habitat.*

Running water at low altitude (below 4-13 m) with mixed bottom of gravel, sand and clay (Laundee & Prommi 2011a). Medium sized rivers with large rocks and sand banks (Schmid 1958).

*Distribution.* **India** (Malicky 2005a), **Laos** (Malicky 2010a), **Malaysia** (Wells & Yule 2008), **Myanmar** (Malicky 2005a; Wityi, Nozaki & Fujino 2015), **Sri Lanka** (Schmid 1958), **Thailand** (Laudee & Prommi 2011; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The male was re-described by Wells & Yule (2008a). The records from India, Myanmar and Thailand given by Malicky (2005a) excluded collection information.

***Oecetis mekana* Kimmins 1963**

*Oecetis mekana* Kimmins 1963: 299.

*Type locality.* [Myanmar] Burma, Tenasserim, Mekane, 90 km E Moulmein, 200 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Unknown.

*Distribution.* **India** (Schmid 1995b), **Myanmar** (Kimmins 1963; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky 2017b; Mattern 2015), **Vietnam** (Unspecified province: Malicky 2005a).

*Remarks.* The male genitalia were was re-described by Schmid (1995a).

***Oecetis meleagros* Malicky & Thani, 2005**

*Oecetis meleagros* Malicky & Thani, 2005 in Malicky 2005a: 620.

*Type locality.* Vietnam, Nam Cat Tien, 11° 26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (12-23 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Brooks (Malicky, Ivanov & Melnitsky 2020). Streams (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Thailand** (Laudee & Prommi 2011; Malicky, Ivanov & Melnitsky 2020; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Malicky 2005a; Johanson, Pham, Malm & Sjöberg 2020).

***Oecetis mezentius* Malicky, 2005**

*Oecetis mezentius* Malicky, 2005a: 619.

*Type locality.* Vietnam, Nam Cat Tien, 11° 26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 2005a).

***Oecetis nigropunctata* Ulmer, 1908**

*Oecetis nigropunctata* Ulmer, 1908: 345.

*Oecetis pallidipunctata* Martynov, 1935; Kumanski 1991: 50.

*Type locality.* Japan, Kanagawa.

*Type depository.* Male holotype in ZMH.

*Habitat.* Lakes (Kimura *et al.* 2007), lakes with rocky shores (Uenishi & Tanida 2012). Small spring brooks with bottom of plant debris and riparian vegetation (Nozaki, Togashi & Sato 2016).

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Japan** (Kimura *et al.* 2007; Nozaki & Nakamura 2007; Nozaki, Togashi & Sato 2016; Tanida & Kuranishi 2016; Uenishi & Tanida 2012; Ulmer 1908; Yang *et al.* 2005), **Laos** (Tanida & Kuranishi 2016), **North Korea** (Park & Kong 2020), **Russia** (Arefina & Armitage 2005; Ivanov 2011a; Martynov 1935b; Potikha & Vshivkova 2016; Schmid 1995a; Vshivkova *et al.* 2016; Zasyrkina 2016), South Korea (Park & Kong 2020), **South Korea** (Lee, Hwang & Bae 2012), **Taiwan** (Malicky 2014a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The male and female were re-described by Yang & Morse (2000a) and Lee, Hwang & Bae (2012a).

#### ***Oecetis oblos* Oláh, 2013**

*Oecetis oblos* Oláh, 2013a: 125.

*Type locality.* Vietnam, Tam Dao, 200 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

#### ***Oecetis olahi* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis olahi* Johanson, Pham, Malm & Sjöberg, 2020: 319.

*Type locality.* Vietnam, Dong Nai Province, Vinh Cuu District, Vinh Cuu Nature Reserve, Ma Da stream, 11°22'38.2''N, 107°03'36.7''E, 78 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Ninh Binh Province: Johanson, Pham, Malm & Sjöberg 2020).

#### ***Oecetis orientalis* Navás, 1921**

*Oecetis orientalis* Navás, 1921: 80.

*Type locality.* Tonquin, Cho gahn [Cho Ganh].

*Type depository.* Holotype (sex not stated) possibly MZBS.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Navás 1921).

#### ***Oecetis pomona* Malicky, 2006**

*Oecetis pomona* Malicky, 2006b: 1518.

*Type locality.* Vietnam, Na Hang, 160 km NWW von Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 2013. Tuyen Quang Province: Malicky 2006b).

#### ***Oecetis porntipae* Johanson, Pham, Malm & Sjöberg, 2020**

*Oecetis porntipae* Johanson, Pham, Malm & Sjöberg, 2020: 317.

*Type locality.* Vietnam, Dong Nai Province, Vinh Cuu District, Vinh Cuu Nature Reserve, Ma Da stream, 11°22'38.2''N, 107°03'36.7''E, 78 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams in lowland forests (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020).

#### ***Oecetis purusamedha* Schmid, 1995**

*Oecetis purusamedha* Schmid, 1995a: 61.

*Oecetis cyrtocercis* Yang & Morse, 2000; Malicky 2005a: 616.

*Type locality.* India, Assam, United Jaintia and Khasi Hills, Umlangshor.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams (Bunlue *et al.* 2012). Tributaries (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Schmid 1995a), **Indonesia** (Malicky 2005a; Malicky 2007b), **Laos** (Malicky 2005a), **Malaysia** (Malicky 2005a), **Thailand** (Bunlue et al. 2012; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Unspecified province: Malicky 2005a. Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Lam Dong Province: Oláh 2013. Vinh Phuc Province: Oláh 2013).

*Remarks.* Female abdominal tergites described by Malicky (2005a).

### ***Oecetis raghava* Schmid, 1995**

*Oecetis raghava* Schmid, 1995a: 60.

*Type locality.* India, Assam, NEFA, Kameng Frontier Division, Bhairabkunda.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams (Bunlue et al. 2012). Brooks and rivers (Malicky 2006a). Lowland streams (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **India** (Schmid 1995a), **Laos** (Malicky 2005a), **Nepal** (Malicky 2005a; Malicky 2006a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Malicky 2005a; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020. Unspecified province: Malicky 2005a).

### ***Oecetis scutata* Ulmer, 1930**

*Oecetis scutata* Ulmer, 1930: 463.

*Type locality.* Indonesia, South Sumatra, Lampongs, Wai Lima.

*Type depository.* Male holotype in ZMH.

*Habitat.* Third order creeks in almost flat lowland (Freitag & Mey 2020).

*Distribution.* **Indonesia** (Malicky 2007b; Ulmer 1930), **Philippines** (Freitag & Mey 2020), **Vietnam** (Unspecified province: Malicky 2010a).

### ***Oecetis sima* Oláh, 2013**

*Oecetis sima* Oláh, 2013a: 127.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Loc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

### ***Oecetis spatula* Chen, 2000**

*Oecetis spatula* Chen, 2000 in Yang & Morse 2000: 114.

*Type locality.* Taiwan, Tai-pei Co., Nai-sung Creek, 25.1°N, 121.6°E.

*Type depository.* Male holotype in NTM.

*Habitat.* Unknown.

*Distribution.* **China** (Yang et al. 2005), **Indonesia** (Malicky 2005a), **Japan** (Shimura 2010; Tanida & Kuranishi 2016), **Taiwan** (Malicky 2014a; Yang & Morse 2000; Yang et al. 2005), **Vietnam** (Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Vinh Phuc Province: Oláh 2013).

### ***Oecetis tompa* Oláh, 2013**

*Oecetis tompa* Oláh, 2013a: 128.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh 2013).

### ***Oecetis tripunctata* (Fabricius, 1793)**

*Phryganea tripunctata* Fabricius, 1793: 81.

*Oecetis tripunctata* (Fabricius, 1793); McLachlan 1877: 337.

*Oecetis buitenzorgensis* Ulmer 1951; Malicky 2009a: 49.

*Oecetis caelum* Chen & Morse, 1991; Malicky 2014a: 1631.

*Setodes punctatella* Rambur, 1842a; Fischer 1966: 146.

*Oecetis alexanderi* Kumanski, 1976; Kumanski 1988: 318.

*Oecetis ovamboensis* Barnard, 1934; Mey & de Moor 2019: 138.

*Type locality.* Saxony [Germany, Halle]

*Type depository.* Type gender and depository institution unknown.

*Habitat.* Running water at low altitude (36 m and below) with bottom of boulder, cobble, gravel, sand and clay (Laundee & Prommi 2011a). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Streams (Bunlue et al. 2012). Brooks, streams and rivers (Malicky 2006a). Tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018). Rivers (Malicky, Melnitsky & Ivanov 2014; Waringer & Graf 2014). Rivers and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Various types of running water (Malicky, Ivanov & Melnitsky 2020). Lakes (Mey 2006). Dryland rivers (Mey & de Moor 2019). Streams (Johanson, Pham, Malm & Sjöberg 2020).

*Distribution.* **Australia** (Wells 2006), **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **China** (Yang & Morse 2000; Yang et al. 2005), **Europe** (Neu et al. 2018), **Indonesia** (Malicky 2007b; Malicky, Ivanov & Melnitsky 2014; Mey 2006; Oláh & Malicky 2011; Ulmer 1951), **Japan** (Tanida & Kuranishi 2016), **Laos** (Malicky 2010a), **Madagascar** (Malicky 2015b), **Malaysia** (Malicky 2010a; Malicky, Ivanov & Melnitsky 2014), **Namibia** (Mey & de Moor 2019), **Nepal** (Malicky 2006a; Malicky 2018a; Mattern 2015), **North Korea** (Park & Kong 2020), **Papua New Guinea** (Oláh & Mey 2013), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016), **Taiwan** (Chen & Morse 1991; Malicky 2014a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010, Bunlue et al. 2012; Laudee & Prommi 2011; Malicky, Ivanov & Melnitsky 2020; Malicky, Suwannarat & Laudee 2018; Sangpradub 2017; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Dong Nai Province: Johanson, Pham, Malm & Sjöberg 2020; Malicky pers. comm. 2021. Bac Kan Province: Oláh 2013. Hoa Binh Province: Oláh 2013. Lam Dong Province: Oláh 2013. Son La Province: Oláh 2013. Thanh Hoa Province: Oláh 2013).

*Remarks.* The male and female were re-described by Yang & Morse (2000a). The male was re-described by Wells (2006a), Malicky (2009a) and Malicky (2015b). The larva was described by Waringer & Graf (2014).

### ***Oecetis tus* Oláh, 2013**

*Oecetis tus* Oláh, 2013a: 129.

*Type locality.* Vietnam, Nghe An Province, Po Phuong Village, 280 m, 19°38.442'N, 104°58.302'E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Oláh 2013).

### ***Oecetis varosi* Oláh, 2013**

*Oecetis varosi* Oláh, 2013a: 123.

*Type locality.* Vietnam, Saigon, Than Loc fish ponds.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ho Chi Minh City: Oláh 2013).

### ***Parasetodes respersellus* (Rambur, 1842)**

*Setodes respersella* Rambur, 1842a: 515.

*Parasetodes respersellus* (Rambur, 1842); Martynov 1935b: 261.

*Leptocella bakeri* Banks, 1913a; Kimmins 1963: 288.

*Leptocella maculata* Banks 1911; Malicky 2006b: 1515.

*Parasetodes ussuriensis* Martynov, 1935; Schmid 1958: 124.

*Type locality.* France, Paris.

*Type depository.* Type gender and depository institution unknown.

*Habitat.* In Europe it has been found in large rivers, small rivers and streams (Mora et al. 2014). They appear to be associated with sandy substrate with silt, and also riparian, macrophytes and submerged vegetation (Mora et al. 2014). Rivers (Malicky, Melnitsky & Ivanov 2014).

*Distribution.* **Cambodia** (Ito & Kuhara 2007; Malicky, Melnitsky & Ivanov 2014), **China** (Yang, Sun & Morse 2016), **Europe** (Mora et al. 2014), **India** (Banks 1911; Kimmins 1963; Yang et al. 2005), **Indonesia** (Malicky 2006b; Malicky 2007b), **Japan** (Tanida & Kuranishi 2016), **Laos** (Malicky 2006b), **Malaysia** (Malicky, Ivanov &

Melnitsky 2014), **Mongolia** (Chuluunbat, Morse & Boldbaatar 2016), **Myanmar** (Kimmins 1963; Malicky 2006b; Wityi, Nozaki & Fujino 2015; Yang *et al.* 2005), **Nepal** (Malicky 2006b; Mattern 2015), **Philippines** (Banks 1913a; Yang *et al.* 2005), **Russia** (Ivanov 2011a; Martynov 1935b; Potikha & Vshivkova 2016), **Sri Lanka** (Kimmins 1963; Malicky 2006b; Yang *et al.* 2005), **Thailand** (Laudee & Prommi 2011; Malicky 2006b), **Turkey** (Buczynska, Shapoval & Buczynski 2014), **Vietnam** (Unspecified province: Malicky 2006b).

*Remarks.* The female was described by Yang & Morse (2000a). The male and female was re-described by Ito & Kuhara (2007a). The male was re-described by Buczynska, Shapoval & Buczynski (2014). The larva was described by Mora *et al.* (2014a). The male genitalia were re-described by Malicky (2006b). Malicky (2006b) listed a number of countries from where material is examined, but without any specific records.

#### ***Poecilopsyche helle* Malicky, 2002**

*Poecilopsyche helle* Malicky, 2002 in Malicky *et al.* 2002b: 17.

*Type locality.* Vietnam: Tam Dao, 21°28'N, 105°38'E, mainstream, 800 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky *et al.* 2002b).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky *et al.* 2002b).

#### ***Setodes alampata* Schmid, 1987**

*Setodes alampata* Schmid, 1987a: 36.

*Type locality.* India, Assam, United Jaintia and Khasi Hills, Mawja.

*Type depository.* Male holotype in CNC.

*Habitat.* Very large streams with irregular courses with rapids and basins (Schmid 1987).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Schmid 1987), **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

*Remarks.* The male was re-described and female described by Yang & Morse (2000a).

#### ***Setodes argentiguttatus* Gordon & Schmid, 1987**

*Setodes argentiguttatus* Gordon & Schmid, 1987 in Schmid 1987: 142.

*Type locality.* Thailand, chw Loei, amp. Muang, Loei River.

*Type depository.* Male holotype in TISTR.

*Habitat.* Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

Streams (Bunlue *et al.* 2012). Rivers (Schmid 1987).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Bunlue *et al.* 2012; Laudee & Prommi 2011; Malicky & Chantaramongkol 2006; Schmid 1987; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Hoa Binh Province: Oláh 2013).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2006). Malicky & Chantaramongkol (2006) reproted the species from unlisted localities in northern Thailand.

#### ***Setodes bispinus* Yang & Morse, 1989**

*Setodes bispinus* Yang & Morse, 1989: 13.

*Type locality.* China, Jiang-xi Province, Wuyuan.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Malicky 2010a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Bac Kan Province: Malicky pers. comm. 2021; Oláh 2013. Thai Nguyen Province: Oláh 2013. Tuyen Quang Province: Malicky & Chantaramongkol 2006.).

*Remarks.* The female was described by Yang & Morse (2000a). The male was re-described by Malicky & Chantaramongkol (2006).

#### ***Setodes brevicaudatus* Yang & Morse, 1989**

*Setodes brevicaudatus* Yang & Morse, 1989: 31.

*Type locality.* China, Si-chuan Province, Yunyang.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Malicky & Chantaramongkol 2006), **Thailand** (Malicky & Chantaramongkol 2006), **Vietnam** (Gia Lai Province: Malicky pers. comm. 2021. Tuyen Quang Province: Malicky & Chantaramongkol 2006).

*Remarks.* The male was re-described by Malicky & Chantaramongkol (2006).

#### ***Setodes hadoram* Malicky, 2009**

*Setodes hadoram* Malicky, 2009a: 52.

*Type locality.* Vietnam, Dak Lak, Yok Don National Park, HQ, ca 2 km SE Ban Don, 12°53'N, 107°48'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dak Lak Province: Malicky 2009a).

#### ***Setodes harar* Malicky, 2009**

*Setodes harar* Malicky, 2009a: 52.

*Type locality.* Vietnam, Dak Lak, Yok Don NP, HQ, 2 km SE Ban Don, 12°53'N, 107°48'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dak Lak Province: Malicky 2009a).

#### ***Setodes hermes* Malicky & Chantaramongkol, 2006**

*Setodes hermes* Malicky & Chantaramongkol, 2006: 1556.

*Type locality.* Vietnam, Nam Cat Tien, 11°26'N, 107°26'E, 200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky & Chantaramongkol 2006).

#### ***Setodes melampus* Malicky & Chantaramongkol, 2006**

*Setodes melampus* Malicky & Chantaramongkol, 2006: 1545.

*Type locality.* Vietnam, 160 km NWW of Hanoi, NE of Na Hang.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

#### ***Setodes memnon* Malicky & Chantaramongkol, 2006**

*Setodes memnon* Malicky & Chantaramongkol, 2006: 1548.

*Type locality.* Vietnam, 160 km NWW Hanoi, NE Na Hang.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

#### ***Setodes mixoparthenos* Malicky & Chantaramongkol, 2006**

*Setodes mixoparthenos* Malicky & Chantaramongkol, 2006: 1536.

*Type locality.* Vietnam, 160 km NWW Hanoi, NE Na Hang, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2006b).

#### ***Setodes neoptolemos* Malicky & Chantaramongkol, 2006**

*Setodes neoptolemos* Malicky & Chantaramongkol, 2006: 1539.

*Type locality.* Vietnam, 160 km NWW Hanoi, NE von Na Hang, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.



*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

***Setodes nephele* Malicky & Chantaramongkol, 2006**

*Setodes nephele* Malicky & Chantaramongkol, 2006: 1548.

*Type locality.* Vietnam, 160 km NWW Hanoi, NE Na Hang, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

***Setodes wortagl* Malicky & Chantaramongkol, 2006**

*Setodes wortagl* Malicky & Chantaramongkol, 2006: 1550.

*Type locality.* Vietnam, 160 km NWW Hanoi, NE of Na Hang, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky & Chantaramongkol 2006).

***Tagalopsyche brunnea* (Ulmer, 1905)**

*Setodes brunnea* Ulmer, 1905b: 90.

*Tagalopsyche brunnea* (Ulmer, 1905); Ulmer 1930: 468.

*Tagalopsyche fletcheri* Kimmins, 1963; Malicky 2006b: 1511.

*Tagalopsyche jolandae* Holzenthal & Andersen, 2007; Malicky 2013: 51.

*Type locality.* Male holotype (lost): Indonesia, Java, Borobudur. Male neotype: Indonesia, Semarang.

*Type depository.* Male neotype, designated by Ulmer (1951), in ZMH.

*Habitat.* River (Holzenthal & Andersen 2007). Tributaries (Malicky, Suwannarat & Laudee 2018). Rivers and irrigation canals (Malicky, Ivanov & Melnitsky 2014).

*Distribution.* **Brunei** (Holzenthal & Andersen 2007), **India** (Holzenthal & Andersen 2007);

Kimmins 1963), **Indonesia** (Holzenthal & Andersen 2007; Malicky 2006b; Malicky 2007b; Malicky, Ivanov & Melnitsky 2014; Ulmer 1910, Ulmer 1930), **Malaysia** (Holzenthal & Andersen 2007; Malicky 2006b; Malicky, Ivanov & Melnitsky 2014), **Thailand** (Malicky 2006b; Sangpradub 2017), **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2015).

*Remarks.* The male was re-described by Malicky (2006b). The male and female were re-described by Holzenthal & Andersen (2007a). Malicky (2006b) listed a number of countries from where material was examined, but without any specific records.

***Triaenodes catbana* Oláh, 2016**

*Triaenodes catbana* Oláh, 2016a: 36.

*Type locality.* Vietnam, Cat Ba Island, Goi Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh 2016a).

*Distribution.* **Vietnam** (Hai Phong City: Oláh 2016a).

***Triaenodes dusrus* Schmid, 1965**

*Triaenodes dusrus* Schmid, 1965: 147.

*Triaenodes dusra* Schmid, 1965; Oláh 2016a: 37.

*Type locality.* China, Li-Kiang.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Small rivers in forest and waterfalls on bare rock (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2005b; Malicky 2007b), **Malaysia** (Malicky 2005b; Oláh 2016a), **Thailand** (Malicky 2005b; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Bac Kan Province: Oláh 2016a. Son La Province: Oláh 2016a. Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* A revised diagnosis was presented by Yang & Morse (2000a). Malicky (2005b) stated that the species is found in Thailand, Vietnam, Indonesia and Malaysia, but without further details.

***Triaenodes menestheus* Malicky, 2005**

*Triaenodes menestheus* Malicky, 2005b: 35.

*Type locality.* Indonesia, Nord-Sumatra, Huta Padang.

*Type depository.* Male holotype in MPC.

*Habitat.* Tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **Indonesia** (Malicky 2005b; Malicky 2007b), **Malaysia** (Malicky 2005b), **Thailand** (Malicky 2005b), **Vietnam** (Unspecified province: Malicky 2005b).

***Triaenodes plectus* Ulmer, 1908**

*Triaenodes plectus* Ulmer, 1908: 344.

*Triaenodella gracillima* Martynov, 1935; Uenishi 1993: 82.

*Type locality.* Japan, Kitayoshinomura.

*Type depository.* Male holotype in ZMH.

*Habitat.* Streams (Bunlue et al. 2012). Small rivers (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Indonesia** (Malicky 2005b; Malicky 2007b), **Laos** (Malicky 2005b), **Japan** (Ito & Nagasaka 2014; Malicky 2005b; Tanida & Kuranishi 2016; Uenishi 1993; Ulmer 1908; Yang et al. 2005), **Laos** (Malicky 2005b), **Malaysia** (Huisman & Andersen 2001; Malicky 2005b), **Russia** (Ivanov 2011a; Ivanov & Melnitsky 2007; Malicky 2005b; Martynov 1935b; Potikha & Vshivkova 2016; Yang et al. 2005), **Thailand** (Bunlue et al. 2012; Malicky 2005b; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Unspecified province: Malicky 2005b. Bac Kan Province: Oláh 2016a).

*Remarks.* The male and female were re-described by Yang & Morse (2000a).

***Triaenodes pentheus* Malicky, 2005**

*Triaenodes pentheus* Malicky, 2005b: 34.

*Type locality.* Thailand, Doi Angkang.

*Type depository.* Male holotype in MPC.

*Habitat.* Lakes (Malicky 2018a).

*Distribution.* **Nepal** (Malicky 2005b; Malicky 2006a; Malicky 2018a; Mattern 2015), **Thailand**

(Malicky 2005b), **Vietnam** (Son La Province: Oláh 2016a).

***Triaenodes qinglingensis* Yang & Morse, 2000**

*Triaenodes qinglingensis* Yang & Morse, 2000: 102.

*Type locality.* China, Shaan-xi Province, Qingling, 1400 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang & Morse 2000; Yang, Sun & Morse 2016), **Japan** (Nozaki & Nakamura 2002; Nozaki & Nakamura 2007), **Laos** (Malicky 2005b), **Russia** (Potikha & Vshivkova 2016), **Thailand** (Malicky 2005b), **Vietnam** (Bac Kan Province: Oláh 2016a. Vinh Phuc Province: Oláh 2016a).

***Triaenodes sokaga* Oláh, 2016**

*Triaenodes sokaga* Oláh, 2016a: 56.

*Type locality.* Vietnam, [Son La Province] Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh 2016a).

***Trichosetodes harmas* Oláh, 2013**

*Trichosetodes harmas* Oláh, 2013a: 131.

*Type locality.* Vietnam, Nghe An Province, Po Phuong Village, 280 m, 19°38.442'N, 104°58.302'E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Oláh 2013).

***Trichosetodes sotet* Oláh, 2013**

*Trichosetodes sotet* Oláh, 2013a: 132.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Da Gna River.

*Type depository.* Male holotype in OPC.

*Habitat.* unknown

*Distribution.* **Vietnam** (Lam Dong Province: Oláh 2013).

***Triplectides indicus* (Walker, 1852)**

*Leptocerus indicus* Walker, 1852: 72.

*Triplectides indicus* (Walker 1852); Betten & Mosely 1940: 233.

*Type locality.* [India] North Bengal.

*Type depository.* Type (unknown gender) in NHM.

*Habitat.* Rivers and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Lakes (Malicky 2018a).

*Distribution.* **India** (Walker 1852), **Indonesia** (Malicky 2007b; Malicky, Ivanov & Melnitsky 2014), **Laos** (Malicky 2010a), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Nepal** (Malicky 2006a; Malicky 2018a; Mattern 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010, Laudee & Prommi 2011; Sangpradub 2017), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The female type was re-described by Betten & Mosely (1940: 233).

**Limnephilidae Kolenati, 1848**

***Nothopsyche muqua* Malicky & Chantaramongkol 1989**

*Nothopsyche muqua* Malicky & Chantaramongkol, 1989b: 122.

*Type locality.* Thailand, Doi Inthanon, Ban Khun Klang, 98°32'N, 18°32'E, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1989b), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005a).

*Remarks.* The male genitalia were re-described and head described by Mey (1996c).

***Nothopsyche nigropedaria* Mey, 1996**

*Nothopsyche nigropedaria* Mey, 1996c: 101.

*Type locality.* Vietnam, Nord Vietnam, Fan Si Pan Massiv, 1600 m, 22.20°N, 103.40°E.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996c, Mey 2005a, Oláh 2013).

***Pseudostenophylax vietnamensis* Mey, 1997**

*Pseudostenophylax vietnamensis* Mey, 1997b: 201.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan Bergsmassiv, Nordseite, 2100-2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Pseudostenophylax xuthus* Mey, 1997**

*Pseudostenophylax xuthus* Mey, 1997b: 201.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan Bergsmassiv, Nordseite, 2100-2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

**Limnacentropodidae Tsuda, 1942**

***Limnacentropus auratus* Malicky & Chantaramongkol, 1989**

*Limnacentropus auratus* Malicky & Chantaramongkol, 1989: 119.

*Type locality.* Thailand, Prov. Chiangmai, Fang, 450 m.

*Type depository.* Male holotype in UOPJ.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1989), **Vietnam** (Kon Tum Province: Malicky pers. comm. 2021).

**Molannidae Wallengren, 1891**

***Molanna moesta* Banks, 1906**

*Molanna moesta* Banks, 1906: 110.

*Molanna falcata* Ulmer, 1908; Wiggins 1968: 2.

*Molanna stenoptera* Navás, 1933a; Fischer 1972: 39.

*Type locality.* Japan, Gifu.

*Type depository.* Male holotype in MCZ.

*Habitat.* Lakes (Kimura et al. 2007). Rocky and pebble shores in lakes (Uenishi & Tanida 2012).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Japan** (Banks 1906; Ito 1998; Kimura et al. 2007; Navás 1933b; Nozaki & Tanida 2007; Ulmer 1908), **Kazakhstan** (Oláh 2010; Smirnova et al. 2016), **Mongolia** (Chuluunbat, Morse & Boldbaatar 2016), **North Korea** (Park & Kong 2020), **Russia** (Ivanov 2011; Potikha & Vshivkova 2016; Vshivkova et al. 2016), **South Korea** (Park & Kong 2020), **Vietnam** (Lao Cai Province: Mey 2005a. Nghe An Province: Oláh 2013).

*Remarks.* The species was re-described by Ito (1998a). Sensillae of the antennae were described by Ivanov & Melnitsky (2016a).

#### ***Molannodes sani* (Malicky, 1995)**

*Indomolannodes sani* Malicky, 1995a: 873.

*Molannodes sani* (Malicky, 1995); Arefina-Armitage & Armitage 2015: 16.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

#### ***Molannodes sapa* Arefina-Armitage & Armitage, 2015**

*Molannodes sapa* Arefina-Armitage & Armitage, 2015: 16.

*Type locality.* Vietnam, Lao Cai Province, ca 12 km along road from Sa Pa to Lai Chau, near 6 m wide stream, bamboo forest, 1950 m, 22°20' 58''N, 103°46'15''E.

*Type depository.* Male holotype in ROM.

*Habitat.* Stream in bamboo forest (Arefina-Armitage & Armitage 2015).

*Distribution.* **Vietnam** (Lao Cai Province: Arefina-Armitage & Armitage 2015).

#### **Odontoceridae Wallengren, 1891**

##### ***Cephalopsyche gorgona* Arefina-Armitage & Armitage, 2010**

*Cephalopsyche gorgona* Arefina-Armitage & Armitage, 2010: 10.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 1460 m, 15°11.2'N, 108°02.3'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2010).

##### ***Cephalopsyche nevoissi* Arefina-Armitage & Armitage, 2010**

*Cephalopsyche nevoissi* Arefina-Armitage & Armitage, 2010: 11.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 830 m, 15°10'N, 108°05'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2010).

##### ***Lannapsyche bachoi* Malicky, 1995**

*Lannapsyche bachoi* Malicky, 1995a: 871.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring brooks and streams (Oláh & Johanson 2010e).

*Distribution.* **Laos** (Malicky 2010a), **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010e).

*Remarks.* Male head described by Oláh & Johanson (2010e).

##### ***Lannapsyche xylostelloides* Mey, 1997**

*Lannapsyche xylostelloides* Mey, 1997b: 203.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Marilia malickyi* Oláh & Johanson, 2010**

*Marilia malickyi* Oláh & Johanson, 2010e: 84

*Type locality.* Laos, Luang Namtha Prov., Nam Ha NBCA, Lakkhammai Village, Nam Leung Stream, UTM 47Q0744602, 2339873, 749 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Oláh & Johanson 2010e).

*Distribution.* **Laos** (Oláh & Johanson 2010e), **Malaysia** (Oláh & Johanson 2010e), **Vietnam** (Quang Tri Province: Oláh & Johanson 2010e).

***Marilia sumatrana* Ulmer, 1951**

*Marilia sumatrana* Ulmer, 1951: 379.

*Type locality.* Indonesia, Sumatra, 500 m.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Shallow streams with wide riparian zone both above and below artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

Streams (Bunlue *et al.* 2012). Tributaries (Malicky, Suwannarat & Laudee 2018). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 2007b; Ulmer 1951), **Laos** (Malicky 2010a; Oláh & Johanson 2010e), **Malaysia** (Malicky 2010a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010, Bunlue *et al.* 2012; Laudee & Prommi 2011; Seetapan & Prommi 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Bac Kan Province: Oláh & Johanson 2010e. Dong Nai Province: Malicky pers. comm. 2021. Ninh Binh Province: Oláh & Johanson 2010e. Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The male was re-described and the female head was described by Oláh & Johanson (2010e).

***Phraepsyche epha* Malicky, 2008**

*Phraepsyche epha* Malicky, 2008a: 56.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2008a).

***Phraepsyche pectinata* Oláh & Johanson, 2010**

*Phraepsyche pectinata* Oláh & Johanson, 2010e: 114.

*Type locality.* Vietnam, Lamdong, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams and waterfalls (Oláh & Johanson 2010e).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010e).

***Psilotreta albogera* Mey, 1997**

*Psilotreta albogera* Mey, 1997b: 202.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan Bergsmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **China** (Arefina-Armitage & Armitage 2011a), **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a).

***Psilotreta androconiata* Mey, 1997**

*Psilotreta androconiata* Mey, 1997b: 202.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1997b, Mey 2005a, Oláh 2013).

***Psilotreta bidens* Mey, 1995**

*Psilotreta bidens* Mey, 1995: 216.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500–1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* 3 m wide tributary of rivers (Arefina-Armitage & Armitage 2011a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1995, Mey 2005a; Nghe An Province: Arefina-Armitage & Armitage 2011a).

#### ***Psilotreta enikoe* Oláh & Johanson, 2010**

*Psilotreta enikoe* Oláh & Johanson, 2010e: 98.

*Type locality.* Vietnam, Quang Tri Province, Dak Krong Nature Reserve, 2 km SE of HQ.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Johanson 2010e).

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Arefina-Armitage & Armitage 2011a; Quang Tri Province: Oláh & Johanson 2010e).

#### ***Psilotreta frigidaria* Mey, 1997**

*Psilotreta frigidaria* Mey, 1997b: 202.

*Type locality.* Vietnam, nordwestlich von Sa Pa, Fan Si Pan gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Arefina-Armitage & Armitage 2011a, Mey 1997b, Mey 2005a).

#### ***Psilotreta jaroschi* Malicky, 1995**

*Psilotreta jaroschi* Malicky, 1995a: 871.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010e; Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010e).

*Remarks.* According to Malicky (1997b) the illustrations of *Psilotreta jaroschi* Malicky, 1995 and *Psilotreta spitzeri* Malicky, 1995 were mixed.

Yuan & Yang (2011) redescribed the males and gave additional *Distribution* information.

#### ***Psilotreta kurenschikovorum* Arefina-Armitage & Armitage, 2011**

*Psilotreta kurenschikovorum* Arefina-Armitage & Armitage, 2011a: 3.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, Parashorea Trail, 9 km from park entrance, 16°12'2.4''N, 107°50'49.6''E, 1000 m.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Arefina-Armitage & Armitage 2011a).

#### ***Psilotreta papaceki* Malicky, 1995**

*Psilotreta papaceki* Malicky, 1995a: 872.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in Malicky Private Collection.

*Habitat.* Spring brooks, streams and waterfalls (Oláh & Johanson 2010e).

*Distribution.* **Laos** (Arefina-Armitage & Armitage 2011a), **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage, 2011a; Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010e).

#### ***Psilotreta spitzeri* Malicky, 1995**

*Psilotreta spitzeri* Malicky, 1995a: 871.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams with small waterfalls (Arefina-Armitage & Armitage 2011a). Spring brooks (Oláh & Johanson 2010e).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010e, Arefina-Armitage & Armitage 2011a).

*Remarks.* According to Malicky (1997b) the illustrations of *Psilotreta jaroschi* Malicky, 1995 and *Psilotreta spitzeri* Malicky, 1995 were mixed.

**Philopotamidae Stephens, 1829**

***Chimarra aculeata* Blahnik, Arefina-Armitage & Armitage, 2012**

*Chimarra aculeata* Blahnik, Arefina-Armitage & Armitage, 2012: 4.

*Type locality.* Vietnam, Ha Giang Province, 22°46.07'N, 104°49.51'E, 1170 m.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Giang Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra akkaorum* Chantaramongkol & Malicky, 1989**

*Chimarra akkaorum* Chantaramongkol & Malicky, 1989: 240.

*Type locality.* Thailand, Mogtian.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Shallow streams with wide riparian zone above artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013). Streams (Bunlue et al. 2012). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Oláh & Malicky 2010), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Prommi & Chantaramongkol 2005; Sangpradub 2017; Seetapan & Prommi 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010; Ninh Binh Province: Oláh & Malicky 2010; Son La Province: Oláh & Malicky 2010; Vinh Phuc Province: Oláh & Malicky 2010).

***Chimarra alcornae* Malicky, 1995**

*Chimarra alcornae* Malicky, 1995a: 860.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Chimarra alleni* Chantaramongkol & Malicky, 1989**

*Chimarra alleni* Chantaramongkol & Malicky, 1989: 235.

*Chimarra kuala* Oláh, 1993; Malicky 2013: 44.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Oláh & Malicky 2010). Streams (Bunlue et al. 2012). Small tributaries in deep valleys (Oláh 2013).

*Distribution.* **Malaysia** (Oláh 1993), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989), **Vietnam** (Bac Kan Province: Oláh & Malicky 2010; Hoa Binh Province: Oláh & Malicky 2010; Lam Dong Province: Oláh & Malicky 2010; Son La Province: Oláh & Malicky 2010; Vinh Phuc Province: Oláh & Malicky 2010).

***Chimarra andrikovicsi* Oláh & Malicky, 2010**

*Chimarra andrikovicsi* Oláh & Malicky, 2010: 17.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh Reservoir, River Suoi.

*Type depository.* Male holotype in OPC.

*Habitat.* Rivers (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).

***Chimarra areli* Malicky & Mey, 2008**

*Chimarra areli* Malicky & Mey, 2008 in Malicky 2008a: 46.

*Type locality.* Cambodia, Cardamom mts., Tumpor area, 12°22'N, 103°02'E, 1250 m.

*Type depository.* Male holotype in ZMH.

*Habitat.* Unknown.

*Distribution.* **Cambodia** (Malicky 2008a; Malicky, Melnitsky & Ivanov 2014), **Vietnam** (Kon Tum Province: Blahnik, Arefina-Armitage & Armitage 2012; Quang Nam Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra argax* Malicky, 1989**

*Chimarra argax* Malicky, 1989: 136.

*Type locality.* Indonesia, Sumatra, Dolok Merangir.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low to moderate altitude (19–220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laudee & Prommi 2011a).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 1989; Malicky 2007b), **Laos** (Malicky 2010a), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Laudee & Prommi 2011), **Vietnam** (Thua Thien-Hue Province: Malicky pers. comm. 2021).

***Chimarra atara* Malicky & Chantaramongkol, 1993**

*Chimarra atara* Malicky & Chantaramongkol, 1993b: 1147.

*Type locality.* Thailand, Chiangmai Zoo, 400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Malaysia** (Malicky & Chantaramongkol 1993b), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Quang Tri Province: Oláh & Malicky 2010).

***Chimarra bachmana* Oláh & Malicky, 2010**

*Chimarra bachmana* Oláh & Malicky, 2010: 17.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 1165 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh & Malicky 2010).

***Chimarra bancha* Oláh & Malicky, 2010**

*Chimarra bancha* Oláh & Malicky, 2010: 18.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Chimarra bimbltona* Malicky, 1979**

*Chimarra bimbltona* Malicky, 1979: 97.

*Type locality.* India, South Andaman, Bimblton.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Oláh & Malicky 2010). Tributaries (Malicky, Suwannarat & Laudee 2018).

*Distribution.* **India** (Malicky 1979), **Nepal** (Malicky 2006a; Malicky 2017b), **Thailand** (Laudee & Prommi 2011; Malicky, Suwannarat & Laudee 2018; Mattern 2015), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010; Vinh Phuc Province: Oláh & Malicky 2010).

***Chimarra caimochina* Oláh & Malicky, 2010**

*Chimarra caimochina* Oláh & Malicky, 2010: 18.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 700 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh & Malicky 2010).

***Chimarra carinata* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra carinata* Blahnik, Arefina-Armitage & Armitage, 2012: 21.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 950 m, 15°11.2'N, 108°02.3'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra Chiangmaiensis* Chantaramongkol & Malicky 1989**

*Chimarra Chiangmaiensis* Chantaramongkol & Malicky 1989: 237.



*Type locality.* Thailand, Chiangmai Zoo, 400 m.  
*Type depository.* Male holotype in MPC.

*Habitat.* Running water at low altitude (23 m) with mixed bottom of gravel and sand (Laudee & Prommi 2011a). Streams (Bunlue et al. 2012). Tributaries (Malicky, Suwannarat & Laudee 2018). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Indonesia** ("Malicky, Ivanov & Melnitsky 2014"), **Laos** (Laudee & Malicky 2017; Malicky 2010a), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Laudee & Prommi 2011; Prommi & Thamsen-anupap 2012; Sangpradub 2017), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

*Remarks.* The male genitalia were re-described by Malicky (2017a).

***Chimarra corneola* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra corneola* Blahnik, Arefina-Armitage & Armitage, 2012: 19.

*Type locality.* Vietnam, Gia Lai Province, An Khe District, 10 km NW Buoebloy, Cha River, on road to Tram Lap.

*Type depository.* Male holotype in ROM.

*Habitat.* Rivers (Blahnik, Arefina-Armitage & Armitage 2012).

*Distribution.* **Vietnam** (Gia Lai Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra cucphuonga* Oláh & Malicky, 2010**

*Chimarra cucphuonga* Oláh & Malicky, 2010: 18.

*Type locality.* Vietnam, Ninh Binh Province, Cucphuong National Park, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Malicky 2010).

***Chimarra cumata* Malicky & Chantaramongkol, 1993**

*Chimarra cumata* Malicky & Chantaramongkol, 1993b: 1145.

*Type locality.* Thailand, Doi Inthanon, Mae Klang, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Larger streams (Malicky 2007a).

*Distribution.* **Bhutan** (Malicky 2007a), **Nepal** (Malicky 2006a; Malicky, 2017b; Mattern 2015), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra dakronga* Oláh & Malicky, 2010**

*Chimarra dakronga* Oláh & Malicky, 2010: 19.

*Type locality.* Vietnam, Quang Tri Province, Da Krong Nature Reserve, 2 km SE of HQ.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Malicky 2010).

***Chimarra damqua* Oláh & Malicky, 2010**

*Chimarra damqua* Oláh & Malicky, 2010: 19.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 1165 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh & Malicky 2010).

***Chimarra devva* Malicky & Chantaramongkol, 1993**

*Chimarra devva* Malicky & Chantaramongkol, 1993b: 1147.

*Type locality.* Thailand, Doi Inthanon, 1600 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b; Seetapan & Prommi 2012), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra dexara* Oláh & Malicky, 2010**

*Chimarra dexara* Oláh & Malicky, 2010: 19.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Chimarra doisongta* Oláh & Malicky, 2010**

*Chimarra doisongta* Oláh & Malicky, 2010: 19.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 100 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Malicky 2010; Thua Thien-Hue Province: Oláh & Malicky 2010).

***Chimarra fansipangensis* Mey, 1998**

*Chimarra fansipangensis* Mey, 1998a: 10.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, Okuiho bei Sa Pa, 22°20'N, 103°40'E, 1100 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Chimarra gether* Malicky, 2009**

*Chimarra gether* Malicky, 2009a: 16.

*Type locality.* Vietnam, Dak Lak, Yok Don NP, HQ, ca 2 km SE Ban Ban Don, 12°53'N, 107°48'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dak Lak Province: Malicky 2009a; Bac Kan Province: Oláh & Malicky 2010).

***Chimarra guiva* Oláh & Malicky, 2010**

*Chimarra guiva* Oláh & Malicky, 2010: 20.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

***Chimarra haimuoi* Malicky, 1995**

*Chimarra haimuoi* Malicky, 1995a: 858.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Chimarra haimuoiba* Malicky, 1995**

*Chimarra haimuoiba* Malicky, 1995a: 858.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Chimarra haimuoibon* Malicky, 1995**

*Chimarra haimuoibon* Malicky, 1995a: 859.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Chimarra haimuoihai* Malicky, 1995**

*Chimarra haimuoihai* Malicky, 1995a: 859.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Oláh & Malicky 2010).

***Chimarra haimuoimot* Malicky, 1995**

*Chimarra haimuoimot* Malicky, 1995a: 859.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010. Vinh Phuc Province: Malicky 1995a; Oláh & Malicky 2010).

***Chimarra haimuoinam* Malicky, 1995**

*Chimarra haimuoinam* Malicky, 1995a: 858.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010; Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Chimarra hoangliensis* Mey, 2005**

*Chimarra hoangliensis* Mey, 2005: 277.

*Type locality.* Vietnam, Lao Cai Province, Sa Pa, Fan Si Pan Mts.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra huonghoa* Oláh & Malicky, 2010**

*Chimarra huonghoa* Oláh & Malicky, 2010: 20.

*Type locality.* Vietnam, Quang Tri Hue Province, Huong Hoa Nature Reserve, near Cup Village, 16°56'15N, 10°34'52E, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Malicky 2010).

***Chimarra insolita* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra insolita* Blahnik, Arefina-Armitage & Armitage, 2012: 6.

*Type locality.* Vietnam, Ha Giang Province, 1210 m, 22°45.55'N, 104°50.02'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Giang Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra inthanonensis* Chantaramongkol & Malicky, 1989**

*Chimarra inthanonensis* Chantaramongkol & Malicky, 1989: 232.

*Type locality.* Thailand, Doi Inthanon, brooklet W of the guesthouse.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue *et al.* 2012). Brooklets (Chantaramongkol & Malicky 1989).

*Distribution.* **Thailand** (Bunlue *et al.* 2012; Chantaramongkol & Malicky 1989), **Vietnam** (Unspecified province: Malicky 2010a).

***Chimarra jaroschi* Malicky, 1994**

*Chimarra jaroschi* Malicky, 1994a: 164.

*Type locality.* Vietnam, Tam Dao, 900–1000 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1994a; Oláh & Malicky 2010).

***Chimarra joliveti* Jacquemart, 1979**

*Chimarra joliveti* Jacquemart, 1979: 1.

*Type locality.* Thailand, Khao Yai.

*Type depository.* Male holotype in IRSNB.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Chantaramongkol & Malicky 1989; Jacquemart 1979; Malicky 2014b),

**Vietnam** (Kon Tum Province: Oláh & Malicky 2010; Lam Dong Province: Oláh & Malicky 2010).

*Remarks.* Deformation of genitalia described by Malicky (2014b).

***Chimarra juliana* Oláh & Malicky, 2010**

*Chimarra juliana* Oláh & Malicky, 2010: 21.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

***Chimarra juliatra* Oláh & Malicky, 2010**

*Chimarra juliatra* Oláh & Malicky, 2010: 21.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu, 24-25-v-1987, light, Oláh.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Chimarra ketla* Oláh & Malicky, 2010**

*Chimarra ketla* Oláh & Malicky, 2010: 21.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Chimarra khamuorum* Chantaramongkol & Malicky, 1989**

*Chimarra khamuorum* Chantaramongkol & Malicky, 1989: 237.

*Type locality.* Thailand, Doi Angkang, 1460 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6–7.8 (Prommi & Chantaramongkol 2005). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Prommi & Chantaramongkol 2005), **Vietnam** (Dong Nai Province: Oláh & Malicky 2010).

***Chimarra khula* Oláh & Malicky, 2010**

*Chimarra khula* Oláh & Malicky, 2010: 22.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Chimarra lacaya* Oláh & Malicky, 2010**

*Chimarra lacaya* Oláh & Malicky, 2010: 22.

*Type locality.* Vietnam, Quang Tri Province, Da Krong Nature Reserve, 2 km SE of HQ.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Malicky 2010).

***Chimarra lahuorum* Chantaramongkol & Malicky, 1989**

*Chimarra lahuorum* Chantaramongkol & Malicky, 1989: 228.

*Type locality.* Thailand, Huay Sai Lüang waterfall on the western slope of Doi Inthanon, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky 2019). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Malicky 2019), **Vietnam** (Lao Cai Province: Oláh 2013, Mey 2005).

***Chimarra lannaensis* Chantaramongkol & Malicky, 1989**

*Chimarra lannaensis* Chantaramongkol & Malicky, 1989: 231.

*Chimarra shiva* Malicky & Chantaramongkol, 1993; Malicky 2013: 44.

*Chimarra lannaensis* [sic]; Armitage et al. 2005: 29.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky 2019). Streams (Oláh & Malicky 2010). Streams (Bunlue et al. 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Oláh & Malicky 2010), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Malicky 2019; Malicky & Chantaramongkol 1993b; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010; Lao Cai Province: Mey 2005; Son La Province: Oláh & Malicky 2010; Vinh Phuc Province: Mey 1995).

***Chimarra litugena* Malicky & Chantaramongkol 1993**

*Chimarra litugena* Malicky & Chantaramongkol, 1993b: 1146.

*Type locality.* Thailand, Doi Inthanon, Bang Khun Klang, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993b), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra loanga* Oláh & Malicky, 2010**

*Chimarra loanga* Oláh & Malicky, 2010: 22.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh, 20 km towards Tanlac.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010; Lam Dong Province: Oláh & Malicky 2010).

***Chimarra maoga* Oláh & Malicky, 2010**

*Chimarra maoga* Oláh & Malicky, 2010: 22.

*Type locality.* Vietnam, Quang Tri Hue Province, Huong Hoa Nature Reserve, near Cup village, 16°56'15''N, 106°34'52''E, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Forest stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Quang Tri Province: Oláh & Malicky 2010).

***Chimarra meorum* Chantaramongkol & Malicky, 1989**

*Chimarra meorum* Chantaramongkol & Malicky, 1989: 229.

*Type locality.* Thailand, Doi Chiang Dao, 1150 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Oláh & Malicky 2010). Streams (Bunlue et al. 2012). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Seetapan & Prommi 2012), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Chimarra mina* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra mina* Blahnik, Arefina-Armitage & Armitage, 2012: 8.

*Type locality.* Vietnam, Ha Tinh Province, Huong Son, 900 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra mlabriorum* Chantaramongkol & Malicky, 1989**

*Chimarra mlabriorum* Chantaramongkol & Malicky, 1989: 224.

*Type locality.* Thailand, Doi Angkhan, 1460 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Chantaramongkol & Malicky 1989), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra mommaides* Mey, 1998**

*Chimarra mommaides* Mey, 1998a: 7.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1400 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Chimarra motranga* Oláh & Malicky, 2010**

*Chimarra motranga* Oláh & Malicky, 2010: 19.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Chimarra muoibay* Malicky, 1995**

*Chimarra muoibay* Malicky, 1995a: 857.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Chimarra muoichin* Malicky, 1995**

*Chimarra muoichin* Malicky, 1995a: 857.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Sangpradub 2017), **Vietnam** (Dong Nai Province: Malicky 1995a; Lam Dong Province: Oláh & Malicky 2010).

***Chimarra muoitam* Malicky, 1995**

*Chimarra muoitam* Malicky, 1995a: 857.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1995a; Thua Thien-Hue Province: Oláh & Malicky 2010).

***Chimarra nahesson* Malicky & Chantaramongkol, 1993**

*Chimarra nahesson* Malicky & Chantaramongkol, 1993a: 438.

*Type locality.* Thailand, Doi Inthanon, Siribhum waterfall, 1300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Streams (Malicky & Chantaramongkol 1993a).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a; Thapanya, Chantaramongkol & McQuillan 2005), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra okuihorum* Mey, 1998**

*Chimarra okuihorum* Mey, 1998a: 10.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, Okuiho bei Sa Pa, 22°20'N, 103°40'E, 1100 m. Tributaries (Malicky, Suwannarat & Laudee 2018).

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a). Spring brooks (Oláh & Malicky 2010). Rivers with waterfalls (Melnitsky & Malicky 2008). Brooks and large streams with stone and rock partly covered by mosses, waterfalls (Malicky, Ivanov & Melnitsky 2020).

*Distribution.* **Myanmar** (Mey & Malicky 2021), **Nepal** (Malicky 2017b), **Thailand** (Bunlue et al. 2012; Melnitsky & Malicky 2008; Malicky, Ivanov & Melnitsky 2020), **Vietnam** (Bac Kan Province: Oláh & Malicky 2010. Hoa Binh Province: Oláh & Malicky 2010. Hai Phong City: Oláh & Malicky 2010. Lao Cai Province: Mey

1998a, Mey 2005. Nghe An Province: Oláh 2013. Son La Province: Oláh & Malicky 2010).

***Chimarra opaca* Mey, 1998**

*Chimarra opaca* Mey, 1998a: 7.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Chimarra pipake* Malicky & Chantaramongkol, 1993**

*Chimarra pipake* Malicky & Chantaramongkol, 1993b: 1142.

*Type locality.* Thailand, Khao, Chamao.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers with waterfalls (Melnitsky & Malicky 2008). Streams (Bunlue et al. 2012). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b; Melnitsky & Malicky 2008; Seetapan & Prommi 2012), **Vietnam** (Thua Thien-Hue Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra prominens* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra prominens* Blahnik, Arefina-Armitage & Armitage, 2012: 16.

*Type locality.* Vietnam, Ha Tinh Province, Huong Son, 200-300 m, 18°21'N, 105°15'E.

*Habitat.*

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra quyenta* Oláh & Malicky, 2010**

*Chimarra quyenta* Oláh & Malicky, 2010: 23.

*Type locality.* Vietnam, Ninh Binh Province, Cucphuong National Park, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Malicky 2010).

***Chimarra rostrata* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra rostrata* Blahnik, Arefina-Armitage & Armitage, 2012: 10.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma NP, near junction of Rhododendron and Five Lakes trails, 1200 m, 16°11.17'N, 107°50.92'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Blahnik, Arefina-Armitage & Armitage 2012; Thua Thien-Hue Province: Blahnik, Arefina-Armitage & Armitage 2012).

***Chimarra shanorum* Chantaramongkol & Malicky, 1989**

*Chimarra shanorum* Chantaramongkol & Malicky, 1989: 238.

*Type locality.* Thailand, Doi Angkhan, 1460 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989), **Vietnam** (Lao Cai Province: Mey 2005a).

***Chimarra sirdiqua* Oláh & Malicky, 2010**

*Chimarra sirdiqua* Oláh & Malicky, 2010: 23.

*Type locality.* Vietnam, 1971 Nr 45.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Unspecified province: Oláh & Malicky 2010).

***Chimarra spinifera* Kimmins, 1957**

*Chimarra spinifera* Kimmins, 1957: 62.

*Type locality.* [Myanmar] Burma, S. Shan States Road 40 km E of Taunggyi.

*Type depository.* Male holotype in NHRS.

*Habitat.* Forest streams (Oláh & Malicky 2010). Streams (Bunlue et al. 2012). In tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018). Large streams with stone and rock partly covered by mosses, waterfalls on bare rocks (Malicky, Ivanov & Melnitsky 2020). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Laos** (Malicky 2010a), **Malaysia** (Malicky 2010a), **Myanmar** (Kimmins 1957; Wityi, Nozaki & Fujino 2015), **Thailand** (Bunlue et al. 2012; Chantaramongkol & Malicky 1989; Laudee & Prommi 2011; Sangpradub 2017; Malicky, Ivanov & Melnitsky 2020; Seetapan & Prommi 2012), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010; Son La Province: Oláh & Malicky 2010; Thua Thien-Hue Province: Oláh & Malicky 2010; Quang Tri Province: Oláh & Malicky 2010).

#### ***Chimarra spitzeri* Malicky, 1994**

*Chimarra spitzeri* Malicky, 1994a: 164.

*Type locality.* Vietnam, Tam Dao, 900–1000 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1994a; Oláh & Malicky 2010).

*Remarks.* The male was re-described by Oláh & Malicky (2010a).

#### ***Chimarra thanglena* Oláh & Malicky, 2010**

*Chimarra thanglena* Oláh & Malicky, 2010: 24.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

#### ***Chimarra uncula* Mey, 1998**

*Chimarra uncula* Mey, 1998: 10.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005, Oláh 2013).

#### ***Chimarra undulata* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra undulata* Blahnik, Arefina-Armitage & Armitage, 2012: 12.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 950 m, 15°10'N, 108°5'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Blahnik, Arefina-Armitage & Armitage 2012).

#### ***Chimarra ungula* Blahnik, Arefina-Armitage, & Armitage, 2012**

*Chimarra ungula* Blahnik, Arefina-Armitage & Armitage, 2012: 17.

*Type locality.* Vietnam, Nghe An Province, W of Con Cuong, Khe Moi Forestry Camp, 18°56'N, 104°49'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Nghe An Province: Blahnik, Arefina-Armitage & Armitage 2012).

#### ***Chimarra uppita* Malicky & Chantaramongkol, 1993**

*Chimarra uppita* Malicky & Chantaramongkol, 1993b: 1143.

*Type locality.* Thailand, Chaopraya, Nontaburi.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Laos** (Oláh & Malicky 2010), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).



***Chimarra vitcona* Oláh & Malicky, 2010**

*Chimarra vitcona* Oláh & Malicky, 2010: 24.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma National Park, 1165 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Oláh & Malicky 2010; Thua Thien-Hue Province: Oláh & Malicky 2010).

***Dolophilodes adnamat* Malicky & Chantaramongkol, 1993**

*Dolophilodes adnamat* Malicky & Chantaramongkol, 1993a: 442.

*Type locality.* Thailand, Doi Suthep, 900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Stream (Oláh & Malicky 2010). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Dolophilodes bicolor* Kimmins, 1955**

*Dolophilodes bicolor* Kimmins, 1955: 83.

*Type locality.* [Myanmar] N.E. Burma, Kambaiti, 6–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Kimmins 1955; Wityi, Nozaki & Fujino 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

***Dolophilodes burmana* Kimmins 1955**

*Dolophilodes burmana* Kimmins, 1955: 80.

*Type locality.* [Myanmar] N.E. Burma, Kambaiti, 6–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Kimmins 1955; Mey & Malicky 2021; Wityi, Nozaki & Fujino 2015), **Vietnam** (Lao Cai Province: Mey 2005, Oláh & Malicky 2010).

***Dolophilodes carpenteri* Arefina-Armitage & Armitage, 2015**

*Dolophilodes carpenteri* Arefina-Armitage & Armitage, 2015: 2.

*Type locality.* Vietnam, Ha Tinh Province, Huang Son, 900 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage 2015).

***Dolophilodes karmos* Oláh, 2013**

*Dolophilodes karmos* Oláh, 2013a: 61.

*Type locality.* Vietnam, Lao Cai Province, Sin Chai, Hoang Lien NP, Tram Ton, 1,900 m, 22.20941°N 103.46197°E.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Dolophilodes lagarha* Malicky, 1995**

*Dolophilodes lagarha* Malicky, 1995a: 853.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Dolophilodes orias* Oláh, 2013**

*Dolophilodes orias* Oláh, 2013a: 62.

*Type locality.* Vietnam, Lao Cai Province, Fan-si-pan Mts, 7 km W Sa Pa, 2,550 m, 22°18.9'N 103°46'E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Dolophilodes ornatula* Kimmins 1955**

*Dolophilodes ornatula* Kimmins, 1955: 88.

*Type locality.* [Myanmar] N.E. Burma, Kam-baiti, 6–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* 0

*Distribution.* **China** (Schmid 1959), **India** (Saini & Pandher 2011), **Myanmar** (Kimmins 1955; Wityi, Nozaki & Fujino 2015), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* The male genitalia were re-described by Saini & Pandher (2011a). The male genitalia were re-illustrated by Malicky (2018b).

#### ***Dolophilodes torrentis* Kimmins, 1955**

*Dolophilodes torrentis* Kimmins, 1955: 86.

*Type locality.* [Myanmar] N.E. Burma, Kam-baiti, 6000–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Bunlue et al. 2012). Streams (Malicky 2007a).

*Distribution.* **Bhutan** (Malicky, 2007a), **China** (Malicky 2018b), **India** (Malicky 2018b), **Myanmar** (Kimmins 1955; Wityi, Mey & Malicky 2021; Nozaki & Fujino 2015a), **Nepal** (Malicky 2017b; Malicky 2018a; Malicky 2018b), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Bunlue et al. 2012; Malicky 2018b), **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

*Remarks.* Malicky (2018b) described variation in the male morphology.

#### ***Gunungiella arinada* Malicky, 1995**

*Gunungiella arinada* Malicky, 1995a: 853.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Small tributaries and spring brooks in forests (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Oláh & Malicky 2010).

#### ***Gunungiella bongai* Oláh & Malicky, 2010**

*Gunungiella bongai* Oláh & Malicky, 2010: 16.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

#### ***Gunungiella cao* Oláh & Malicky, 2010**

*Gunungiella cao* Oláh & Malicky, 2010: 16.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams and waterfalls (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

#### ***Gunungiella dung* Oláh & Malicky, 2010**

*Gunungiella dung* Oláh & Malicky, 2010: 16.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks and streams (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

#### ***Gunungiella guni* Malicky, 2009**

*Gunungiella guni* Malicky, 2009a: 19.

*Type locality.* Vietnam, Tuyen Quang, tributary of Gam River, 2 km NE Pac Ban, 22°25'N, 105°25'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Streams (Malicky 2009a).

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009a).

#### ***Gunungiella lencao* Oláh & Malicky, 2010**

*Gunungiella lencao* Oláh & Malicky, 2010: 16.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring brooks (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Gunungiella obendio* Oláh & Malicky, 2010**

*Gunungiella obendio* Oláh & Malicky, 2010: 16.  
*Gungiella obendia* [sic]; Morse (2021a)

*Type locality.* Vietnam, Cucphuong National Park.

*Type depository.* Male holotype in OPC.

*Habitat.* Karst spring brook in forested valley (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Malicky 2010).

***Gunungiella sosau* Oláh & Malicky, 2010**

*Gunungiella sosau* Oláh & Malicky, 2010: 16.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Gunungiella thuba* Oláh & Malicky, 2010**

*Gunungiella thuba* Oláh & Malicky, 2010: 17.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh, towards Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).

***Kisaura cailona* Oláh & Malicky, 2010**

*Kisaura cailona* Oláh & Malicky, 2010: 14.

*Type locality.* Vietnam, Lam Dong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Kisaura darda* Oláh, 2013**

*Kisaura darda* Oláh, 2013a: 64.

*Type locality.* Vietnam, Lao Cai Province, Hoang Lien NP, Tram Ton, forest edge, 1,915 m, 22.3493723°N 103.7704565°E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Kisaura euandros* Sun & Malicky, 2002**

*Kisaura euandros* Sun & Malicky, 2002: 531.

*Type locality.* China, Henan Province, 1 km S Long Yu Wan, 33°38'N, 111°46'E, 1000 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016; Sun & Malicky 2002), **Vietnam** (Quang Nam Province: Oláh & Malicky 2010).

***Kisaura fansipana* Oláh & Malicky, 2010**

*Kisaura fansipana* Oláh & Malicky, 2010: 14.

*Type locality.* Vietnam, Lao Cai Province, Sa Pa, 1800 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Kisaura filiformis* Mey, 1996**

*Kisaura filiformis* Mey, 1996a: 55.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Bunlue et al. 2012). Large waterfalls (Malicky pers. comm 2021).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Pandher, Kaur & Parey 2020), **Thailand** (Bunlue et al. 2012), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005, Malicky pers. comm. 2021).

*Remarks.* Morphological variation described by Malicky (2018b).

***Kisaura laban* Malicky & Chantaramongkol, 2009**

*Kisaura laban* Malicky & Chantaramongkol, 2009 in Malicky, 2009a: 19.

*Type locality.* Thailand, Doi Angkang, Royal Project, 1400 m, 19°55'N, 99°03'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **India** (Pandher, Kaur & Parey 2020), **Thailand** (Malicky 2009a), **Vietnam** (Lao Cai Province: Arefina-Armitage & Armitage 2015).

***Kisaura longaria* Mey, 1996**

*Kisaura longaria* Mey, 1996a: 55.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005, Oláh 2013).

***Kisaura longispina* (Kimmins, 1955)**

*Dolophilodes longispina* Kimmins, 1955: 76.

*Kisaura longispina* (Kimmins, 1955); Ross 1956: 57.

*Type locality.* [Myanmar] N.E. Burma, Kam-baiti, 6–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **India** (Pandher, Kaur & Parey 2020), **Myanmar** (Kimmins 1955; Wityi, Nozaki & Fujino 2015), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Bunlue et al. 2012), **Vietnam** (Lao Cai Province: Mey 2005a).

*Remarks.* Malicky (2018b) described variation in the male morphology.

***Kisaura pectinata* (Ross, 1956)**

*Sortosa pectinata* Ross, 1956: 58.

*Kisaura pectinata* (Ross, 1956); Ross 1956: 57.

*Type locality.* China, Kwantung, Yim Na Sam.

*Type depository.* Male holotype in MCZ.

*Habitat.* Unknown.

*Distribution.* **China** (Ross 1956; Yang, Sun & Morse 2016), **India** (Pandher, Kaur & Parey 2020), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Kisaura rossi* (Kimmins, 1955)**

*Dolophilodes rossi* Kimmins, 1955: 79.

*Kisaura rossi* (Kimmins, 1955); Ross 1956: 57.

*Type locality.* [Myanmar] N.E. Burma, Kam-baiti, 6000–7000 ft.

*Type depository.* Male holotype in NHRS.

*Habitat.* Unknown.

*Distribution.* **India** (Pandher, Kaur & Parey 2020), **Myanmar** (Kimmins 1955; Mey & Malicky 2021; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky, 2018a; Mattern 2015), **Vietnam** (Lao Cai Province: Mey 2005a).

***Kisaura schimplzicha* Malicky, 1995**

*Kisaura schimplzicha* Malicky, 1995a: 853.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Kisaura sura* Malicky & Chantaramongkol, 1993**

*Kisaura sura* Malicky & Chantaramongkol, 1993a: 440.

*Type locality.* Thailand, Huey Nam Ru, 1400 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a), **Vietnam** (Lao Cai Province: Mey 2005a).

***Wormaldia clavella* Mey, 1995**

*Wormaldia clavella* Mey, 1995: 209.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500–1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005, Oláh 2013).

***Wormaldia daona* Oláh & Malicky, 2010**

*Wormaldia daona* Oláh & Malicky, 2010: 15.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao.

*Type depository.* Male holotype in OPC.

*Habitat.* Waterfalls in streams (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

***Wormaldia hephoa* Oláh & Malicky, 2010**

*Wormaldia hephoa* Oláh & Malicky, 2010: 15.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

***Wormaldia longicornuta* Mey, 1996**

*Wormaldia longicornuta* Mey, 1996a: 52.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Wormaldia meosorum* (Mey, 1996)**

*Doloclanes meosorum* Mey, 1996a: 52.

*Wormaldia meosorum* (Mey, 1996); Malicky 2013: 43.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, 2005).

***Wormaldia montuosa* Arefina-Armitage & Armitage, 2015**

*Wormaldia montuosa* Arefina-Armitage & Armitage, 2015: 3.

*Type locality.* Vietnam, Quang Nam, Ngoc Linh, 1460 m, 15°11.2'N, 108°2.3'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2015).

***Wormaldia muoihai* Malicky, 1995**

*Wormaldia muoihai* Malicky, 1995a: 854.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Oláh & Malicky 2010).

***Wormaldia muoiba* (Malicky, 1995)**

*Doloclanes muoiba* Malicky, 1995a: 855.

*Wormaldia muoiba* (Malicky, 1995); Malicky 2013: 43.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Wormaldia muoibon* (Malicky, 1995)**

*Doloclanes muoibon* Malicky, 1995a: 856.

*Wormaldia muoibon* (Malicky, 1995); Malicky 2013: 43.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Wormaldia muoinam* (Malicky, 1995)**

*Doloclanes muoinam* Malicky, 1995a: 855.

*Wormaldia muoinam* (Malicky, 1995); Malicky 2013: 43.

*Doloclanes meosorum* Mey, 1996a; Malicky 2013: 44.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Lao Cai Province: Mey 1996a).

***Wormaldia muoisian* (Malicky, 1995)**

*Doloclanes muoisian* Malicky, 1995a: 856.

*Wormaldia muoisian* (Malicky, 1995); Malicky 2013: 43.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Medium-sized streams and spring brooks in dark forests (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Malicky 2010).

***Wormaldia muoimot* Malicky, 1995**

*Wormaldia muoimot* Malicky, 1995a: 854.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Wormaldia nyctimon* (Schmid, 1991)**

*Doloclanes nyctimon* Schmid, 1991: 103.

*Wormaldia nyctimon* (Schmid, 1991); Malicky 2013: 43.

*Type locality.* India, Assam, Manipour, Lihan.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams with high current speeds (Schmid 1991).

*Distribution.* **India** (Schmid 1991), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).

***Wormaldia relictata* (Martynov, 1935)**

*Dolophiliella relictata* Martynov, 1935a: 121.

*Wormaldia relictata* (Martynov, 1935); Ross 1949: 156.

*Type locality.* India, E. Himalayas, Bengal, Kurseong, 4700 ft.

*Type depository.* Male holotype in IMK.

*Habitat.* Spring streams in dark forests (Oláh & Malicky 2010). Streams (Bunlue *et al.* 2012). Streams (Malicky 2007a).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Martynov 1935a), **Laos** (Oláh & Malicky 2010), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky 2017b; Malicky 2018a; Mattern 2015), **Thailand** (Bunlue *et al.* 2012), **Vietnam** (Lao Cai Province: Mey 2005a; Vinh Phuc Province: Oláh & Malicky 2010).

*Remarks.* Ghosh & Chaudhury (1998) listed the species from India but without specific data.

***Wormaldia sinocornuta* Mey, 1996**

*Wormaldia sinocornuta* Mey, 1996a: 52.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Wormaldia sonlama* Oláh & Malicky, 2010**

*Wormaldia sonlama* Oláh & Malicky, 2010: 15.

*Type locality.* Vietnam, Cucphuong National Park.

*Type depository.* Male holotype in OPC.

*Habitat.* Karst spring brook in forested valley (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Malicky 2010).

## Phryganeidae Leach, 1850

### *Eubasilissa maclachlani* (White, 1862)

*Holostomis maclachlani* White, 1862: 26.  
*Phryganea maclachlani* (White, 1862); McLachlan 1866: 249.  
*Eubasilissa maclachlani* (White, 1862); Martynov 1930: 87.  
*Neuronia imperialis* Botke, 1916; Fischer 1964: 84  
*Eubasilissa machlachlani* [sic]; Mey 2005a: 283.

*Type locality.* [India] Northeast India.

*Type depository.* Female holotype in NHM.

*Habitat.* Streams (Malicky 2019). Streams (Bunlue et al. 2012). Streams (Malicky 2007a). Small forest streams to medium sized rivers (Wiggins 1998).

*Distribution.* **Bhutan** (Malicky 2007a; Schmid 1975; Yang et al. 2005), **China** (Yang, Sun & Morse 2016), **India** (Betten 1909; Ghosh & Chaudhury 1998; White 1862; Yang et al. 2005), **Laos** (Malicky 2010a), **Myanmar** (Kimmins 1952; Wityi, Nozaki & Fujino 2015; Yang et al. 2005), **Nepal** (Malicky 2006a; Malicky 2018a; Mattern 2015), **Pakistan** (Yang et al. 2005), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Bunlue et al. 2012; Malicky 2019), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013, Wiggins 1998).

*Remarks.* The male was re-described by Betten (1909a). The male and female were re-described by Wiggins (1998a).

### Phryganopsychidae Wiggins, 1959

#### *Phryganopsyche latipennis* (Banks, 1906)

*Phryganea latipennis* Banks, 1906: 107.  
*Phryganopsyche latipennis* (Banks, 1906); Wiggins 1959: 753.  
*Phryganopsis latipennis* (Banks, 1906); Martynov 1924 [preoccupied in Lepidoptera]  
*Neuronia latipennis* (Banks, 1906); Kawamura & Tsuda 1951: 62.

*Type locality.* Japan, Gifu.

*Type depository.* Male holotype in MCZ.

*Habitat.* Lakes (Kimura et al. 2007). Rivers (Nozaki & Tanida 2007). Small spring brooks

with bottom of plant debris and riparian vegetation (Nozaki, Togashi & Sato 2016).

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Yang et al. 2005), **Japan** (Banks 1906; Ito & Nagasaka 2014; Kimura et al. 2007; Nozaki & Nakamura 2007; Nozaki & Tanida 2007; Nozaki, Togashi & Sato 2016; Tanida & Kuranishi 2016; Yang et al. 2005), **Myanmar** (Wityi, Nozaki & Fujino 2015; Yang et al. 2005), **Nepal** (Malicky 2017b), **North Korea** (Park & Kong 2020), **Russia** (Ivanov 2011; Potikha & Vshivkova 2016), **South Korea** (Park & Kong 2020), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

*Remarks.* The male, female and larva were re-described by Wiggins (1959a). The larva was described by Yang & Yang (2002). Details in leg morphology given by Vshivkova et al. (2007).

#### *Phryganopsyche wigginsi* Arefina-Armitage & Armitage, 2009

*Phryganopsyche wigginsi* Arefina-Armitage & Armitage, 2009: 323.

*Type locality.* Vietnam, Lao Cai Province, ca 12 km along road from Sapa to Lai Chau, near 6 m wide stream, bamboo/secondary forest, 1,950 m, 22°20'58"N, 103°46'15E.

*Type depository.* Male holotype in ROM.

*Habitat.* About 6 m wide stream in bamboo/secondary forest (Arefina-Armitage & Armitage 2009).

*Distribution.* **Vietnam** (Lao Cai Province: Arefina-Armitage & Armitage 2009).

### Polycentropodidae Ulmer, 1903

#### *Eoneureclipsis afonini* Arefina-Armitage & Armitage, 2015

*Eoneureclipsis afonini* Arefina-Armitage & Armitage, 2015: 8.

*Type locality.* Vietnam, Thua Thien-Hue Province, Bach Ma NP, 1200 m, 16°10'N, 107°54'E.

*Type depository.* Male holotype in the Museum für Naturkunde Berlin, Berlin, Germany (MNHB).

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Arefina-Armitage & Armitage 2015).

***Eoneureclipsis quang* Malicky, 1995**

*Eoneureclipsis quang* Malicky, 1995a: 866.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Eoneureclipsis tieni* Malicky, 1995**

*Eoneureclipsis tieni* Malicky, 1995a: 867.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Holocentropus vietnamellus* Malicky, 1995**

*Holocentropus vietnamellus* Malicky, 1995a: 865.

*Plectrocnemia vietnamella* (Malicky, 1995): Malicky 2010a: 106.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky 2010a), **Vietnam** (Vinh Phuc Province: Malicky 1995a).

*Remarks.* This species was listed as *Plectrocnemia vietnamella* (Malicky, 1995) by Malicky (2010a).

***Neucentropus mandjuricus* Martynov, 1907**

*Neucentropus mandjuricus* Martynov, 1907: 19.

*Neureclipsis mongolica* Schmid, 1968; Arefina 1997: 73.

*Neureclipsis kyotoensis* Iwata, 1927; Inaba et al. 2014: 64.

*Type locality.* China, Manchuria, Tal des Flusses Da-Ljaoche.

*Type depository.* Female holotype in ZMUM.

*Habitat.* Rocky or pebble shores in lakes (Uenishi & Tanida 2012). Lakes (Mey & Nozaki 2007). Rivers (Kobayashi, Nozaki & Takemon 2017).

*Distribution.* **China** (Martynov 1907; Yang, Sun & Morse 2016), **Japan** (Inaba et al. 2014; Iwata 1927a; Kobayashi, Nozaki & Takemon 2017; Mey & Nozaki 2007), **Mongolia** (Chuluunbat, Morse & Boldbaatar 2016; Schmid 1968), **Russia** (Ivanov 2011a; Potikha & Vshivkova 2016; Vshivkova et al. 2016), **Vietnam** (Thai Nguyen Province: Oláh & Johanson 2010b).

*Remarks.* *Kyopsyche japonica* Tsuda, 1942 was listed as a synonym of *Neucentropus mandjuricus* (Martynov, 1907) by Arefina (1997a) but considered a valid name by Li, Morse & Wang (1998). The male was described and female was re-described by Li, Morse & Wang (1998). Inaba et al. (2014a) re-described the male and female, and described the larva and pupa.

***Nyctiophylax amaltheia* Malicky & Chantaramongkol, 1997**

*Nyctiophylax amaltheia* Malicky & Chantaramongkol, 1997: 205.

*Type locality.* Thailand, Kao Soi Dao WS.

*Type depository.* Male holotype in MPC.

*Habitat.* River in doipterocarp forest (Arefina-Armitage & Armitage 2015).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Malicky & Chantaramongkol 1997), **Vietnam** (Dak Lak Province: Arefina-Armitage & Armitage 2015).

***Nyctiophylax argentensis* Malicky, 1995**

*Nyctiophylax argentensis* Malicky, 1995a: 863.

*Paranyctiophylax argentensis* (Malicky, 1995); Armitage, Mey, Arefina, & Scheffter, 2005a: 29.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.



*Type depository.* Male holotype in MPC.  
*Habitat.* Unknown.  
*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010b).

***Nyctiophylax asnat* Malicky, 2008**

*Nyctiophylax asnat* Malicky, 2008a: 49.

*Type locality.* Vietnam, Na Hang, 160 km NWW Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2008a).

***Nyctiophylax buoc* Oláh & Johanson, 2010**

*Nyctiophylax buoc* Oláh & Johanson, 2010b: 45.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010b).

***Nyctiophylax cascadiensis* Malicky, 1995**

*Nyctiophylax cascadiensis* Malicky, 1995a: 862.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Nyctiophylax hatinh* Arefina-Armitage & Armitage, 2015**

*Nyctiophylax hatinh* Arefina-Armitage & Armitage, 2015: 6.

*Type locality.* Vietnam, Ha Tinh Province, Huong Son, 200 m, 18°21'N, 105°15'E.

*Type depository.* Male holotype in AMNH.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ha Tinh: Arefina-Armitage & Armitage 2015).

***Nyctiophylax hotay* Oláh & Johanson, 2010**

*Nyctiophylax hotay* Oláh & Johanson, 2010b: 41.

*Type locality.* Vietnam, Hanoi, West Lake.

*Type depository.* Male holotype in OPC.

*Habitat.* Lakes (Oláh & Johanson 2010b).

*Distribution.* **Vietnam** (Ha Noi: Oláh & Johanson 2010b).

***Nyctiophylax mintin* Oláh & Johanson, 2010**

*Nyctiophylax mintin* Oláh & Johanson, 2010b: 50.

*Type locality.* Vietnam, Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Laos** (Oláh & Johanson 2010b), **Vietnam** (Son La Province: Oláh & Johanson 2010b).

***Nyctiophylax sagax* (Mey, 1995)**

*Paranyctiophylax sagax* Mey, 1995: 212.

*Nyctiophylax sagax* Mey, 1995; Malicky 1994a: 168.

*Type locality.* Vietnam, Sa Pa, Mt. Fan Si Pan, 1500–1800 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Streams (Zhong, Yang & Morse 2014).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 1995).

***Nyctiophylax suthepensis* Malicky & Chantaramongkol, 1993**

*Nyctiophylax suthepensis* Malicky & Chantaramongkol, 1993a: 456.

*Type locality.* Thailand, Doi Suthep, 900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* River in tropical forest (Arefina-Armitage & Armitage 2015). Streams (Bunlue *et al.* 2012).

*Distribution.* **Thailand** (Bunlue *et al.* 2012; Malicky & Chantaramongkol 1993a), **Vietnam** (Nghe An Province: Arefina-Armitage & Armitage 2015).

***Nyctiophylax zadok* Malicky &  
Chantaramongkol, 1993**

*Nyctiophylax zadok* Malicky & Chantaramongkol, 1993a: 454.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in MPC.

*Habitat.* Small stream to 6 m wide river (Arefina-Armitage & Armitage 2015). Rivers with waterfalls (Melnitsky & Malicky 2008).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Thailand** (Malicky & Chantaramongkol 1993a; Melnitsky & Malicky 2008), **Vietnam** (Gia Lai Province: Arefina-Armitage & Armitage 2015).

***Pahamunaya directoris* Malicky, 1995**

*Pahamunaya directoris* Malicky, 1995a: 865.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Pahamunaya joda* Malicky &  
Chantaramongkol, 1993**

*Pahamunaya joda* Malicky & Chantaramongkol, 1993a: 448.

*Type locality.* Thailand, Ayutthaya.

*Type depository.* Male holotype in MPC.

*Habitat.* Standig water (Malicky & Chantaramongkol 1993a).

*Distribution.* **Thailand** (Malicky & Chantaramongkol, 1993a), **Vietnam** (Lam Dong Province: Oláh & Johanson 2010b).

***Pahamunaya khoii* Oláh & Johanson, 2010**

*Pahamunaya khoii* Oláh & Johanson, 2010b: 59.

*Type locality.* Vietnam, Lamdong, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010b).

*Distribution.* **Vietnam** (Gia Lai Province: Arefina-Armitage & Armitage 2012; Lam Dong Province: Oláh & Johanson 2010b).

*Remarks.* Variation in male genitalia described by Arefina-Armitage & Armitage (2012a).

***Pahamunaya spinifera* Arefina-Armitage &  
Armitage, 2012**

*Pahamunaya spinifera* Arefina-Armitage & Armitage, 2012: 2.

*Type locality.* Vietnam, Thua Thien-Hue Province, Nam Dong District, Huong Loc Commune, ca 9 km SE Khe Tre.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2012a. Thua Thien-Hue Province: Arefina-Armitage & Armitage 2012).

***Pahamunaya talon* Arefina-Armitage &  
Armitage, 2012**

*Pahamunaya talon* Arefina-Armitage & Armitage, 2012: 1.

*Type locality.* Vietnam, Quang Nam Province, Ngoc Linh, 950 m, 15°11.2'N, 108°02.3'E.

*Type depository.* Male holotype in AMNH.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2012a).

***Plectrocnemia acanthos* Mey, 1996**

*Plectrocnemia acanthos* Mey, 1996a: 56.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Plectrocnemia appensata* Mey, 1996**

*Plectrocnemia appensata* Mey, 1996a: 56.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Plectrocnemia dalat* Oláh & Johanson, 2010**

*Plectrocnemia dalat* Oláh & Johanson, 2010b: 16

*Type locality.* Vietnam, Lamdong, Dalat, Monastery Balcony.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010b).

***Plectrocnemia forcipata* Schmid, 1965**

*Plectrocnemia forcipata* Schmid, 1965: 145.

*Type locality.* China, Li-Kiang.

*Type depository.* Male holotype in ZFMK.

*Habitat.* Unknown.

*Distribution.* **China** (Schmid 1965; Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005a, Oláh 2013).

***Plectrocnemia gryphalis* Mey, 1996**

*Plectrocnemia gryphalis* Mey, 1996a: 55.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Plectrocnemia hagar* Malicky, 2009**

*Plectrocnemia hagar* Malicky, 2009a: 21.

*Type locality.* Vietnam, Lao Cai Province, 12 km along road from Sapa to Lai Chau, 22°21'N, 103°46'E, 1950 m.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Malicky 2009a).

***Plectrocnemia hebu* Malicky, 2009**

*Plectrocnemia hebu* Malicky, 2009a: 21.

*Type locality.* Vietnam, Loa Cai [Province], Sapa, large waterfall on road from Sapa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfalls (Malicky 2009a)

*Distribution.* **Vietnam** (Lao Cai Province: Malicky 2009a).

***Plectrocnemia hoenei* Schmid, 1965**

*Plectrocnemia hoenei* Schmid, 1965: 146.

*Type locality.* China, West Tien-mu-shan.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Rivers and tributaries (Zhong, Yang & Morse 2012).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005a).

***Plectrocnemia jonam* Malicky, 1993**

*Polyplectropus jonam* Malicky, 1993b: 1114.

*Plectrocnemia jonam* (Malicky, 1993); Mey 2005: 281.

*Type locality.* India, Himachal Pradesh, ob Kullu, 1300 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **China** (Zhong, Yang & Morse 2012), **India** (Malicky 1993b), **Vietnam** (Lao Cai Province: Mey 2005).

***Plectrocnemia kamba* Oláh & Johanson, 2010**

*Plectrocnemia kamba* Oláh & Johanson, 2010b: 17.

*Type locality.* Myanmar, NE, Kambaiti, 7000 ft.

*Type depository.* Male holotype in NHM.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Wityi, Nozaki & Fujino 2015; Oláh & Johanson 2010b), **Vietnam** (Lao Cai Province: Oláh 2013).

***Plectrocnemia luna* Malicky & Changthong, 2005**

*Plectrocnemia luna* Malicky & Changthong, 2005 in Malicky et al., 2005: 598.

*Type locality.* Thailand, Prov. Pitsanulok, Pu Hin Rongkla Nationalpark, Man Daeng Noi, 16°57'N, 101°03'E, 1600 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky et al. 2005), **Vietnam** (Lao Cai Province: Arefina-Armitage & Armitage 2015).

***Plectrocnemia munitalis* Mey, 1996**

*Plectrocnemia munitalis* Mey, 1996a: 58.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400-1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Plectrocnemia sinyajevi* Mey, 1996**

*Plectrocnemia sinyajevi* Mey, 1996a: 56.

*Type locality.* Vietnam, Okuiho, 14 km nördlich Sa Pa, am Fuße des Fan Si Pan Bergmassiv, 1100 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Plectrocnemia thai* Oláh & Johanson, 2010**

*Plectrocnemia thai* Oláh & Johanson, 2010b: 20.

*Type locality.* Vietnam, [Son La Province] Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh & Johanson 2010b).

*Plectrocnemia vietnamella* Malicky, 1995

see *Holocentropus vietnamellus* Malicky, 1995

***Polyplectropus admin* Malicky & Chantaramongkol, 1993**

*Polyplectropus admin* Malicky & Chantaramongkol, 1993a: 452.

*Type locality.* Thailand, Doi Chiang dao, 1150 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a), **Vietnam** (Son La Province: Oláh & Johanson 2010b).

***Polyplectropus anakgugur* Malicky, 1995**

*Polyplectropus anakgugur* Malicky, 1995b: 19.

*Type locality.* Malaysia, Perak, Basislager 250 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers and streams (Zhong, Yang & Morse 2010).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Malaysia** (Malicky 1995b), **Vietnam** (Son La Province: Oláh & Johanson 2010b).

*Remarks.* Variation in male genitalia described by Zhong, Yang & Morse (2010).

***Polyplectropus bacphanensis* Mey, 2005**

*Polyplectropus bacphanensis* Mey, 2005: 277.

*Type locality.* Vietnam, Lao Chi Province, Sa Pa, Fan Si Pan Mts.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005a).

***Polyplectropus bay* Malicky, 1995**

*Polyplectropus bay* Malicky, 1995a: 864.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Polyplectropus chin* Malicky, 1995**

*Polyplectropus chin* Malicky, 1995a: 863.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Oláh & Johanson 2010b).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010b).

***Polyplectropus daimong* Oláh & Johanson, 2010**

*Polyplectropus daimong* Oláh & Johanson, 2010b: 23.

*Type locality.* Vietnam, Lamdong, Baoloc, Bao Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010b).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010b).

***Polyplectropus dinhdan* Oláh & Johanson, 2010**

*Polyplectropus dinhdan* Oláh & Johanson, 2010b: 24.

*Type locality.* Vietnam, Hoabinh toward Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010b. Hoa Binh Province: Oláh & Johanson 2010b).

***Polyplectropus evocatus* Mey, 1998**

*Polyplectropus evocatus* Mey, 1998a: 16.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Polyplectropus giandi* Oláh & Johanson, 2010**

*Polyplectropus giandi* Oláh & Johanson, 2010b: 26.

*Type locality.* Vietnam, Lamdong, Baoloc, Loc Chau Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010b).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010b).

***Polyplectropus hemor* Malicky, 2009**

*Polyplectropus hemor* Malicky, 2009a: 24.

*Type locality.* Vietnam, Lao Cai, Sapa, Muong Hoa Ho River.

*Type depository.* Male holotype in ROM.

*Habitat.* Rivers and tributaries (Malicky 2009a).

*Distribution.* **Vietnam** (Lao Cai Province: Malicky 2009a).

***Polyplectropus nam* Malicky, 1995**

*Polyplectropus nam* Malicky, 1995a: 864.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1995a).

***Polyplectropus san* Malicky, 1995**

*Polyplectropus san* Malicky, 1995a: 863.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010b).

***Polyplectropus simei* Malicky, 1993**

*Remarks.* This species was listed by Oláh & Johanson (2010b) as having Vietnam as type locality, which should be Brunei (Malicky 1993b).

***Polyplectropus tam* Malicky, 1995**

*Polyplectropus tam* Malicky, 1995a: 864.

*Type locality.* Vietnam, Tam Dao, 800-1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a, Oláh & Johanson 2010b).

***Polyplectropus trigonius* Zhong, Yang & Morse, 2008**

*Polyplectropus trigonius* Zhong, Yang & Morse, 2008: 606.

*Type locality.* China, Guangxi Province, Shanshi County, 22.09°N, 107.58°E, Mt Shiwanda National Forest Park, Shitou H, trib of Mingjiang He, 1.35 km SW of main entrance to Park, 300 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Streams (Yang, Sun & Morse 2008a).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010b).

*Remarks.* The male was re-described by Oláh & Johanson (2010b).

**Pseudoneureclipsidae Ulmer, 1951**

***Pseudoneureclipsis abia* Malicky & Chantaramongkol, 1993**

*Pseudoneureclipsis abia* Malicky & Chantaramongkol, 1993a: 446.

*Type locality.* Thailand, Kao Chamao.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Indonesia** (Malicky & Chantaramongkol 1993a), **Myanmar** (Malicky & Chantaramongkol 1993a; Wityi, Nozaki & Fujino 2015), **Thailand** (Malicky & Chantaramongkol 1993a), **Vietnam** (Dak Lak Province: Armitage & Arefina-Armitage 2009; Bac Kan Province: Oláh & Johanson 2010a).

*Remarks.* The name *Pseudoneureclipsis ramosa* Ulmer, 1913 was synonymized with *Pseudoneureclipsis abia* Malicky & Chantaramongkol, 1993 by Malicky (2009b), but Malicky (2013a) stated that they are not synonyms. Deformation of genitalia described by Malicky (2014b).

***Pseudoneureclipsis arimaspos* Luadee & Malicky, 1999**

*Pseudoneureclipsis arimaspos* Luadee & Malicky, 1999: 6.

*Type locality.* Thailand, Tung Salaeng National Park, 550 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Luadee & Malicky 1999a), **Vietnam** (Ha Tinh Province: Armitage & Arefina-Armitage 2009).

***Pseudoneureclipsis ba* Malicky, 1995**

*Pseudoneureclipsis ba* Malicky, 1995a: 861.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Pseudoneureclipsis bon* Malicky, 1995**

*Pseudoneureclipsis bon* Malicky, 1995a: 861.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Small tributary (Oláh & Johanson 2010a).

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a; Oláh & Johanson 2010a).

***Pseudoneureclipsis cauky* Oláh & Johanson, 2010**

*Pseudoneureclipsis cauky* Oláh & Johanson, 2010a: 25.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis congkem* Oláh & Johanson, 2010**

*Pseudoneureclipsis congkem* Oláh & Johanson, 2010a: 26.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis dongian* Oláh & Johanson, 2010**

*Pseudoneureclipsis dongian* Oláh & Johanson, 2010a: 27.

*Type locality.* Vietnam, Tamdao, 200 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis eretheus* Malicky & Sangpradab, 2001**

*Pseudoneureclipsis eretheus* Malicky & Sangpradab, 2001 in Malicky et al., 2001a: 11.

*Type locality.* Thailand, Prov. Chayapum, Nam Nao NP, Huai Promlaeng.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams and rivers, dipterocarp forests near ponds (Armitage & Arefina-Armitage 2009).

*Distribution.* **Thailand** (Malicky et al. 2001), **Vietnam** (Dak Lak Province: Armitage & Arefina-Armitage 2009. Gia Lai Province. Malicky pers. comm. 2021).

***Pseudoneureclipsis hai* Malicky, 1995**

*Pseudoneureclipsis hai* Malicky, 1995a: 862.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1995a).

***Pseudoneureclipsis hailan* Oláh & Johanson, 2010**

*Pseudoneureclipsis hailan* Oláh & Johanson, 2010a: 28.

*Type locality.* Vietnam, Cuc Phuong.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis halongensis* Oláh & Johanson, 2010**

*Pseudoneureclipsis halongensis* Oláh & Johanson, 2010a: 29.

*Type locality.* Vietnam, Halong Archipelago, Cat Ba Island.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Ninh Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis loang* Oláh & Johanson, 2010**

*Pseudoneureclipsis loang* Oláh & Johanson, 2010a: 30.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis mot* Malicky, 1995**

*Pseudoneureclipsis mot* Malicky, 1995a: 862.

*Type locality.* Vietnam, Nam Cat Thien National Park, 200 m, 11°26'N, 107°26'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Dong Nai Province: Malicky 1995a).

***Pseudoneureclipsis ohad* Malicky, 2009**

*Pseudoneureclipsis ohad* Malicky, 2009b: 720.

*Type locality.* Vietnam, Na Hang, 160 km WW Hanoi, 150-200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009b).

***Pseudoneureclipsis philemon* Malicky & Prommi, 2000**

*Pseudoneureclipsis philemon* Malicky & Prommi, 2000a in Malicky et al. 2000a: 862.

*Pseudoneureclipsis bonkybin* Oláh & Johanson 2010; Malicky 2013: 45.

*Type locality.* Thailand, Doi Suthep National Park, Huai Koo Kao, 18°48'N, 98°56'E, 550 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Running water in forest (Armitage & Arefina-Armitage 2009). Streams with large exposed stones (Seetapan & Prommi 2012).

*Distribution.* **Thailand** (Malicky et al. 2000a; Seetapan & Prommi 2012), **Vietnam** (Bac Kan Province: Oláh & Johanson 2010a. Gia Lai Province: Armitage & Arefina-Armitage 2009; Malicky pers. comm. 2021. Ha Tinh Province: Armitage & Arefina-Armitage 2009. Nghe An Province: Armitage & Arefina-Armitage 2009; Malicky pers. comm. 2021).

***Pseudoneureclipsis ramosa* Ulmer, 1913**

*Pseudoneureclipsis ramosa* Ulmer, 1913: 85.

*Pseudoneureclipsis bheri* Malicky, 1993; Malicky 2009b: 713.

*Pseudoneureclipsis vali* Malicky & Chantaramongkol 1993; Malicky 2009b: 713.

*Pseudoneureclipsis abia* Malicky & Chantaramongkol, 1993; Malicky 2009b: 713.

*Type locality.* Indonesia, Java, Semarang.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at low altitude (19–23 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue et al. 2012). Brooks, streams and rivers (Malicky 2006a). Rivers, waterfalls and irrigation canals (Malicky, Ivanov & Melnitsky 2014). Irrigation channels (Malicky, Melnitsky & Ivanov 2016). Waterfall in river (Laundee & Malicky 2017).

*Distribution.* **Afghanistan** (Malicky 2006a), **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **India** (Pandher et al. 2018), **Indonesia** (Malicky 2007b; Malicky, Ivanov &

Melnitsky 2014; Malicky, Melnitsky & Ivanov 2016; Ulmer 1913), **Laos** (Laundee & Malicky 2017), **Malaysia** (Malicky 2010a; Malicky, Ivanov & Melnitsky 2014), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 1993a; Malicky 2006a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011a; Malicky 2014b; Malicky & Chantaramongkol 1993b), **Vietnam** (Dak Lak [Dak Lak] Province: Armitage & Arefina-Armitage 2009).

*Remarks.* The male was re-described by Malicky (2009b) and Pandher et al. (2018a). Abnormalities described by Malicky (2014b). The name *Pseudoneureclipsis ramosa* Ulmer, 1913 was synonymized with *Pseudoneureclipsis abia* Malicky & Chantaramongkol, 1993 by Malicky (2009b), but Malicky (2013a) stated that they are not synonyms. Malicky (2009b) lists a number of countries comprising the distribution, but without new records.

***Pseudoneureclipsis theias* Malicky, 2009**

*Pseudoneureclipsis theias* Malicky, 2009b: 714.

*Type locality.* Vietnam, 160 km WNW Hanoi, NE Na Hang, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers (Malicky pers. comm. 2021).

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009b).

***Pseudoneureclipsis titustatius* Malicky, 2009**

*Pseudoneureclipsis titustatius* Malicky, 2009b: 718.

*Type locality.* Vietnam, Gia Lai, An Khe District, Tram Lap, Azun River, 2 km NW forestry building, 14°27'N, 108°33'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Gia Lai Province: Malicky 2009b).

***Pseudoneureclipsis turnus* Malicky, 2009**

*Pseudoneureclipsis turnus* Malicky, 2009b: 716.

*Type locality.* Vietnam, Gia Lai, An Khe District, Tram Lap, Azun River, 3 km NE forestry building.



*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Gia Lai Province: Malicky 2009b).

***Pseudoneureclipsis usia* Malicky & Chantaramongkol, 1993**

*Pseudoneureclipsis usia* Malicky & Chantaramongkol, 1993b: 446.

*Pseudoneureclipsis boquan* Oláh & Johanson, 2010; Malicky 2013: 45.

*Pseudoneureclipsis quancong* Oláh & Johanson, 2010; Malicky 2013: 45.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993b), **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010a. Vinh Phuc Province: Oláh & Johanson 2010a).

***Pseudoneureclipsis vetcat* Oláh & Johanson, 2010**

*Pseudoneureclipsis vetcat* Oláh & Johanson, 2010a: 34.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010a).

**Psychomyiidae Walker, 1852**

***Lype atria* Malicky & Chantaramongkol, 1993**

*Lype atria* Malicky & Chantaramongkol, 1993a: 466.

*Lype vietnamella* Mey, 1996; Oláh & Malicky 2010: 28.

*Type locality.* Thailand, Doi Suthep, 900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Spring stream with silt, sand, gravel and rock bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Streams (Oláh & Malicky 2010). Streams (Bunlue et al. 2012).

*Distribution.* **Indonesia** (Malicky 2007b; Malicky & Chantaramongkol 1993a; Oláh & Malicky 2011), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a; Nuntakwang, Chantaramongkol & Courtney 2007; Prommi & Chantaramongkol 2005), **Vietnam** (Bac Kan Province: Oláh & Malicky 2010. Lam Dong Province: Oláh & Malicky 2010. Lao Cai Province: Mey 1996a. Ninh Binh Province: Oláh & Malicky 2010. Son La Province: Oláh & Malicky 2010).

*Remarks.* The name *Lype vietnamella* Mey, 1996 was synonymized with *Lype atria* Malicky & Chantaramongkol, 1993 again by Malicky (2013a).

***Paduniella dongdata* Johanson & Oláh, 2010**

*Paduniella dongdata* Johanson & Oláh, 2010: 46.

*Type locality.* Vietnam, Bac Thai Province [= Bac Kan Province], Phuluong, Dongdat River.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Johanson & Oláh 2010).

***Paduniella monga* Johanson & Oláh, 2010**

*Paduniella monga* Johanson & Oláh, 2010: 48.

*Type locality.* Vietnam, [Son La Province] Moc Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* Vietnam (Son La Province: Johanson & Oláh 2010).

***Paduniella nama* Johanson & Oláh, 2010**

*Paduniella nama* Johanson & Oláh, 2010: 51.

*Type locality.* Vietnam, Ngoc Lac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thanh Hoa Province: Johanson & Oláh 2010).

***Paduniella sampati* Malicky & Chantaramongkol, 1993**

*Paduniella sampati* Malicky & Chantaramongkol, 1993b: 1156.

*Type locality.* Thailand, Huay Yang NP, Pat-chuab Kiri Kan, 50 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Shallow streams with wide riparian zone above artificial dam, with bottom of various stone sizes and sand (Thapanya, Bunlue & Chantaramongkol 2013).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993b; Prommi & Thamsenanupap 2012; Thapanya, Bunlue & Chantaramongkol 2013), **Vietnam** (Bac Kan Province: Johanson & Oláh 2010. Thanh Hoa Province: Johanson & Oláh 2010. Hoa Binh Province: Johanson & Oláh 2010).

*Remarks.* The male was re-described by Johanson & Oláh 2010.

### ***Paduniella semarangensis* Ulmer, 1913**

*Paduniella semarangensis* Ulmer, 1913: 81.

*Type locality.* Indonesia, Java, Semarang.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at low altitude (23 m) with mixed bottom of gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue et al. 2012). Rivers (Malicky, Melnitsky & Ivanov 2014).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Malicky 2020), **Indonesia** (Malicky 2007b; Oláh & Malicky 2011; Ulmer 1913), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Nepal** (Malicky 2017b), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Bunlue et al. 2012; Laudee & Prommi 2011), **Vietnam** (Hoa Binh Province: Johanson & Oláh 2010).

*Remarks.* Male re-described by Johanson & Oláh (2010a).

### ***Paduniella taya* Johanson & Oláh, 2010**

*Paduniella taya* Johanson & Oláh, 2010: 54.

*Type locality.* Vietnam, Lamdong, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Johanson & Oláh 2010).

### ***Paduniella wangtakraiensis* Malicky & Chantaramongkol, 1993**

*Paduniella wangtakraiensis* Malicky & Chantaramongkol, 1993b: 1158.

*Type locality.* Thailand, Wangtakrai.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Tributaries (Malicky, Suwannarat & Laudee 2018). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Laos** (Laudee & Malicky 2017), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b), **Vietnam** (Dong Nai Province: Malicky 2014b; Dong Nai Province: Malicky pers. comm. 2021).

*Remarks.* Deformation of genitalia described by Malicky (2014b).

### ***Psychomyia bacthaia* Oláh & Malicky, 2010**

*Psychomyia bacthaia* Oláh & Malicky, 2010: 28.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

### ***Psychomyia barata* Malicky & Chantaramongkol 1993**

*Psychomyia barata* Malicky & Chantaramongkol, 1993b: 1161.

*Type locality.* Thailand, Doi Suthep, Suan Son, 900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b), **Vietnam** (Lao Cai Province: Mey 2005a).

### ***Psychomyia benyagai* Malicky & Chantaramongkol, 1993**

*Psychomyia benyagai* Malicky & Chantaramongkol, 1993b: 1161.

*Type locality.* Thailand, Doi Inthanon, Mae Klang, 1200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012). Streams (Malicky 2007a).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Malicky & Chantaramongkol 1993b), **Nepal** (Malicky 2017b; Malicky 2018a), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Lao Cai Province: Mey 2005a).

***Psychomyia eriphyle* Malicky & Sangpradub, 2001**

*Psychomyia eriphyle* Malicky & Sangpradub, 2001 in Malicky et al., 2001a: 11.

*Type locality.* Thailand, Pu Pan NP.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Thailand** (Malicky et al., 2001a), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).

***Psychomyia isaschar* Malicky, 2009**

*Psychomyia isaschar* Malicky, 2009a: 24.

*Type locality.* Vietnam, Na Hang, 160 km NWW Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009a).

***Psychomyia madai* Malicky, 2009**

*Psychomyia madai* Malicky, 2009a: 27.

*Type locality.* Vietnam, Na Hang, 160 km NWW Hanoi, 150–200 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Tuyen Quang Province: Malicky 2009a).

***Psychomyia kiskinda* Malicky & Chantaramongkol, 1993**

*Psychomyia kiskinda* Malicky & Chantaramongkol, 1993b: 1165.

*Type locality.* Thailand, Doi Angkang, 1450 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993b), **Vietnam** (Tuyen Quang Province: Malicky pers. comm. 2021).

***Psychomyia samanaka* Malicky & Chantaramongkol, 1993**

*Psychomyia samanaka* Malicky & Chantaramongkol, 1993b: 1163.

*Type locality.* Thailand, Mae Ping, Chiang Dao.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers (Oláh & Malicky 2010).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993b; Prommi & Thamsenanupap 2012), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Psychomyia sonlana* Oláh & Malicky, 2010**

*Psychomyia sonlana* Oláh & Malicky, 2010: 28.

*Type locality.* Vietnam, Son La Province, Moch Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh & Malicky 2010).

***Psychomyia thienemanni* (Ulmer, 1951)**

*Psychomyiella thienemanni* Ulmer, 1951: 167.

*Psychomyia thienemanni* (Ulmer, 1951); Malicky 2007b: 178.

*Type locality.* Indonesia, Java, Buitenzorg, Hotel Bellevue.

*Type depository.* Male holotype in ZMH.

*Habitat.* Running water at low altitude (19–23 m) with mixed bottom of gravel and sand (Laudee & Prommi 2011a). Waterfall in river (Laudee & Malicky 2017).

*Distribution.* **Cambodia** (Malicky 2010a; Malicky, Melnitsky & Ivanov 2014), **Indonesia** (Malicky 2007b; Ulmer 1951), **Laos** (Laudee &

Malicky 2017), **Malaysia** (Malicky 2010a Malicky, Ivanov & Melnitsky 2014), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010; Laudee & Prommi 2011), **Vietnam** (Dong Nai Province: Malicky pers. comm. 2021).

***Psychomyia vietnama* Oláh & Malicky, 2010**

*Psychomyia vietnama* Oláh & Malicky, 2010: 29.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh, 2 km towards Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010; Son La Province: Oláh & Malicky 2010).

***Tinodes apteryx* Malicky, 1995**

*Tinodes apteryx* Malicky, 1995a: 867.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Tinodes bunkos* Oláh, 2013**

*Tinodes bunkos* Oláh, 2013a: 65.

*Type locality.* Vietnam, Gia Lai Contum Province [Kon Tum Province], Lo Xo Pass, 1100 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Kon Tum Province: Oláh 2013).

***Tinodes caolana* Johanson & Oláh, 2008**

*Tinodes caolana* Johanson & Oláh, 2008: 5.

*Type locality.* Vietnam, Lamdong, Baoloc, Baco str.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lam Dong Province: Johanson & Oláh 2008).

***Tinodes cryptophallicata* Li & Morse, 1997**

*Tinodes cryptophallicata* Li & Morse, 1997b: 278.

*Type locality.* China, Jiang-xi Province, Yu-shan-xian, Xuan-xi-he, San-qing-shan, 80 km S Yu-shan.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Li & Morse, 1997b; Qiu & Yan 2018; Yang, Sun & Morse 2016), **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

***Tinodes dactringa* Johanson & Oláh, 2008**

*Tinodes dactringa* Johanson & Oláh, 2008: 9.

*Type locality.* Vietnam, Moc Cau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Johanson & Oláh 2008).

***Tinodes dungdera* Oláh & Malicky, 2010**

*Tinodes dungdera* Oláh & Malicky, 2010: 29.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010. Vinh Phuc Province: Oláh & Malicky 2010).

***Tinodes gapbona* Johanson & Oláh, 2008**

*Tinodes gapbona* Johanson & Oláh, 2008: 7.

*Type locality.* Vietnam, Hoabinh towards Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Johanson & Oláh 2008).

***Tinodes hevit* Malicky, 2009**

*Tinodes hevit* Malicky, 2009a: 27.

*Type locality.* Vietnam, Lao Cai, Sapa, waterfall on road from Sapa to Lai Chan.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfalls (Malicky 2009a).

*Distribution.* **Vietnam** (Lao Cai Province: Malicky 2009a).

***Tinodes kemnounga* Johanson & Oláh, 2008**

*Tinodes kemnounga* Johanson & Oláh, 2008: 2.

*Type locality.* Vietnam, Bac Thai Province, Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Johanson & Oláh 2008).

***Tinodes meleagris* Malicky, 1995**

*Tinodes meleagris* Malicky, 1995: 867.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Tinodes micrapteryx* Malicky, 1995**

*Tinodes micrapteryx* Malicky, 1995a: 868.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Tinodes physetes* Malicky, 1995**

*Tinodes physetes* Malicky, 1995a: 868.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800-1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Tinodes prisatkayukta* Schmid, 1972**

*Tinodes prisatkayukta* Schmid, 1972: 162.

*Type locality.* India, Manipour, Tangkhul Hungdung.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams (Oláh & Malicky 2010).

*Distribution.* **India** (Schmid 1972), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Tinodes ragu* Malicky & Chantaramongkol, 1993**

*Tinodes ragu* Malicky & Chantaramongkol, 1993a: 463.

*Tinodes suksa* Johanson & Oláh, 2008; Malicky 2013: 46.

*Type locality.* Thailand, Tham Than Lod Nationalpark, 500 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Rivers with waterfalls (Melnitsky & Malicky 2008). Streams (Bunlue et al. 2012). Streams (Johanson & Oláh 2008).

*Distribution.* **Malaysia** (Johanson & Oláh 2008), **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1993a; Melnitsky & Malicky 2008), **Vietnam** (Ha Tinh Province: Arefina-Armitage & Armitage 2015).

***Tinodes reuso* Malicky & Chantaramongkol, 1993**

*Tinodes reuso* Malicky & Chantaramongkol, 1993a: 466.

*Type locality.* Thailand, Chattrakan.

*Type depository.* Male holotype in MPC.

*Habitat.* Mountain streams (Hoang & Bae 2005).

*Distribution.* **Thailand** (Malicky & Chantaramongkol 1993a), **Vietnam** (Da Nong City: Hoang & Bae 2005).

***Tinodes triomdys* Malicky, 1995**

*Tinodes triomdys* Malicky, 1995a: 868.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

### **Rhyacophilidae Stephens, 1836**

#### ***Fansipangana vernalis* Mey, 1996**

*Fansipangana vernalis* Mey, 1996a: 43.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

#### ***Himalopsyche dombora* Oláh, 2013**

*Himalopsyche dombora* Oláh, 2013a: 89.

*Type locality.* Vietnam, Gia Lai Contum Province [Kon Tum Province], Lo Xo Pass, 1100 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Kon Tum Province: Oláh 2013).

#### ***Himalopsyche navasi* Banks, 1940**

*Himalopsyche navasi* Banks, 1940: 200.

*Type locality.* China, Kwantung, Yim Na San.

*Type depository.* Male holotype in MCZ.

*Habitat.* Unknown.

*Distribution.* **China** (Banks 1940a; Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005a).

#### ***Himalopsyche sylvicola* Mey, 1996**

*Himalopsyche sylvicola* Mey, 1996a: 47.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Bergmassiv, Nordseite, 2100–2900 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005, Oláh 2013).

#### ***Rhyacophila arefinae* Oláh & Malicky, 2010**

*Rhyacophila arefinae* Oláh & Malicky, 2010: 13.

*Type locality.* Vietnam, Thua Thien Hue Province, Bach Ma National Park, 700 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien Hue Province: Oláh & Malicky 2010; Bin Tri Thien Province: Oláh 2013).

#### ***Rhyacophila armitagei* Oláh & Malicky, 2010**

*Rhyacophila armitagei* Oláh & Malicky, 2010: 13.

*Type locality.* Vietnam, Thua Thien Hue Province, Bach Ma National Park, 1200 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien Hue Province: Oláh 2013; Oláh & Malicky 2010).

#### ***Rhyacophila atlagos* Oláh & Kiss, 2018**

*Rhyacophila atlagos* Oláh & Kiss, 2018: 155.

*Type locality.* Vietnam, Lao Cai Province, Fan-Si-Pan Mts, 16 km NW Sa Pa, 1800 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Waterfall (Oláh & Kiss 2018: 155).

*Distribution.* **Vietnam** (Lao Cai Province: Oláh & Kiss 2018).

#### ***Rhyacophila banra* Oláh, 1987**

*Rhyacophila banra* Oláh, 1987: 147.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Spring brooks (Oláh 1987).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1987).

#### ***Rhyacophila bicolor* Kimmins, 1953**

*Rhyacophila bicolor* Kimmins, 1953: 532.

*Type locality.* [Myanmar] N.E. Burma, Kam-baiti, 6300–7000 ft, 2000 m.

*Type depository.* Male holotype in NHRS.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Kimmins 1953; Wityi, Nozaki, & Fujino 2015a), **Vietnam** (Lao Cai Province: Mey 2005a).

*Rhyacophila bidens* Kimmins, 1953

*Remarks.* Removed from Vietnam by Oláh & Kiss (2018a).

***Rhyacophila brechlini* Mey, 1998**

*Rhyacophila brechlini* Mey, 1998a: 3.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Rhyacophila curriei* Armitage & Arefina, 2003**

*Rhyacophila curriei* Armitage & Arefina, 2003a: 106.

*Type locality.* Vietnam, Lao Cai Province, 1.5 wide stream near mountain pass on road from Sa Pa to Lai Chau, 22°21'N, 103°46'E.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfall (Armitage & Arefina 2003a)

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

***Rhyacophila domba* Oláh, 2013**

*Rhyacophila domba* Oláh, 2013: 90.

*Type locality.* Vietnam, Tam Dao National Park, Tam Dao City, 1,300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

***Rhyacophila egyenes* Oláh, 2013**

*Rhyacophila egyenes* Oláh, 2013a: 92.

*Type locality.* Vietnam, Binh Tri Thien Province, Bach Ma National Park, 750 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Hien-Hue Province: Oláh 2013).

***Rhyacophila esorima* Mey, 1996**

*Rhyacophila esorima* Mey, 1996a: 44.

*Rhyacophila erosima* [sic] Armitage et al. (2005a).

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Rhyacophila falita* Ross, 1956**

*Rhyacophila falita* Ross, 1956: 121.

*Type locality.* [Vietnam] Tonkin.

*Type depository.* Male holotype in MNHN.

*Habitat.* Waterfall (Armitage & Arefina 2003a). Streams (Bunlue et al. 2012).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Thailand** (Bunlue et al. 2012; Nuntakwang, Chantaramongkol & Courtney 2007), **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a; Mey 2005a).

*Remarks.* *Rhyacophila furcifera* Navás, 1932a, preoccupied by *Rhyacophila furcifera* Klapalek, 1870, was renamed by Ross (1956a) to *R. falita* Ross, 1956. The male genitalia were re-described by Ross (1956a).

***Rhyacophila fansipana* Mey, 1998**

*Rhyacophila fansipana* Mey, 1998a: 3.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005, Oláh 2013).

***Rhyacophila fernandi* Armitage & Arefina, 2003**

*Rhyacophila fernandi* Armitage & Arefina, 2003a: 117.

*Type locality.* Vietnam, Lao Cai Province, near Sa Pa, large waterfall on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfall (Armitage & Arefina 2003a)

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

***Rhyacophila gelukpa* Schmid, 1970**

*Rhyacophila gelukpa* Schmid, 1970b: 214.

*Type locality.* India, Sikkim, Gey.

*Type depository.* Male holotype in CNC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005).

***Rhyacophila hangnia* Oláh, 1987**

*Rhyacophila hangnia* Oláh, 1987: 148.

*Type locality.* Vietnam, Tamdao, at the foothill about 200 m.

*Type depository.* Male holotype in HNHM.

*Habitat.* Small tributaries (Oláh 1987).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1987. Vinh Phuc Province: Oláh 1987).

***Rhyacophila hoabinha* Oláh, 1987**

*Rhyacophila hoabinha* Oláh, 1987: 141.

*Type locality.* Vietnam, Hoabinh.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh 1987; Nghia Bihn Province: Oláh & Malicky 2010).

***Rhyacophila hoangliensis* Mey, 1998**

*Rhyacophila hoangliensis* Mey, 1998a: 6.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Rhyacophila homora* Oláh, 2013**

*Rhyacophila homora* Oláh, 2013a: 93.

*Type locality.* Vietnam, Lao Cai Province, Fan-si-pan Mts, 14 km NW Sa Pa, 1900–2000 m, 22°20.9'N, 103°46.06'E.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Rhyacophila immaculata* Mey, 1996**

*Rhyacophila immaculata* Mey, 1996a: 44.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a, Mey 1996a, Mey 2005).

*Remarks.* The male genitalia were re-described and female described by Armitage and Arefina (2003a).

***Rhyacophila inaequalis* Denning & Schmid, 1971**

*Rhyacophila inaequalis* Denning & Schmid, 1971: 1553.

*Type locality.* Thailand, Chiangmai Province, Doi Sutep, West of Chiangmai, 1150 ft.

*Type depository.* Male holotype in CAS.

*Habitat.* Rivers with waterfalls (Melnitsky & Malicky 2008). Streams (Sun 2016b).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Sun 2016b), **Laos** (Malicky 2010a), **Thailand** (Benlue et al. 2012a; Denning & Schmid 1971; Melnitsky & Malicky



2008), **Vietnam** (Lam Dong Province: Oláh & Malicky 2010; Nghe An Province: Armitage & Arefina 2003a; Thua Thien Hue Province: Oláh & Malicky 2010).

***Rhyacophila incudis* Mey, 1996**

*Rhyacophila incudis* Mey, 1996a: 44.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Rhyacophila janosi* Oláh, 1987**

*Rhyacophila janosi* Oláh, 1987: 145.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Springs, brooks and streams (Oláh 1987).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 1987).

***Rhyacophila kurta* Oláh & Kiss, 2018**

*Rhyacophila atlagos* Oláh & Kiss, 2018: 158.

*Rhyacophila bidens* Kimmins, 1953 *in part*; Oláh & Kiss 2018: 158.

*Type locality.* Vietnam, Lao Cai Province, Fan Si Pan Mts, 3 km NW Cat Cat.

*Type depository.* Male holotype in HNHM.

*Habitat.* Waterfall (Oláh & Kiss, 2018: 155).

*Distribution.* **Vietnam** (Lao Cai Province: Oláh & Kiss 2018).

***Rhyacophila kyimdongpa* Schmid, 1970**

*Rhyacophila kyimdongpa* Schmid, 1970b: 176.

*Type locality.* India, Assam, United Jaintia and Khasi Hills, Serrarim, 5500 ft.

*Type depository.* Male holotype in CNC.

*Habitat.* Streams (Schmid 1970b).

*Distribution.* **India** (Schmid 1970b), **Thailand** (Nuntakwang, Chantaramongkol & Courtney

2007), **Vietnam** (Vinh Phuc Province: Oláh & Malicky 2010).

***Rhyacophila lamdonga* Oláh & Malicky, 2010**

*Rhyacophila lamdonga* Oláh & Malicky, 2010: 13.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Duchma Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Stream (Oláh & Malicky 2010).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Malicky 2010).

***Rhyacophila laposka* Oláh, 2013**

*Rhyacophila laposka* Oláh, 2013: 94.

*Type locality.* Vietnam, Lao Cai Province, Fan-si-pan Mts, 7 km W Sa Pa, 2550 m, 22° 18.9'N, 103°46'E.

*Type depository.* Male holotype in HNHM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013).

***Rhyacophila laocai* Armitage & Arefina, 2003**

*Rhyacophila laocai* Armitage & Arefina, 2003a: 107.

*Type locality.* Vietnam, Lao Cai Province, near Sa Pa, large waterfall on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfall (Armitage & Arefina 2003a)

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

***Rhyacophila lhabu* Schmid, 1970**

*Rhyacophila lhabu* Schmid, 1970b: 164.

*Type locality.* India, Manipour, Loni.

*Type depository.* Male holotype in CNC.

*Habitat.* Rivers (Armitage & Arefina 2003a). Fast-flowing and marshy streams (Schmid 1970b).

*Distribution.* **India** (Schmid 1970b), **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

*Remarks.* The male genitalia were re-described by Armitage & Arefina (2003a).

***Rhyacophila mahunkai* Oláh, 1987**

*Rhyacophila mahunkai* Oláh, 1987: 144.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams and waterfalls (Oláh 1987).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005; Vinh Phuc Province: Oláh 1987. Son La Province: Oláh 1987).

***Rhyacophila malayana* Banks, 1931**

*Rhyacophila malayana* Banks, 1931a: 402.

*Rhyacophila hippocrepica* 1995; Malicky 2013: 41.

*Rhyacophila quana* Malicky & Chantaramongkol, 1989; Malicky 2013: 41.

*Type locality.* Malaysia, Penin[sula] Siam, Nakhon Sri Tamarat [Nakhon Si Thammarat], Khao Ram.

*Type depository.* Male holotype in MCZ.

*Habitat.* Small streams (Armitage & Arefina 2003a). Streams (Malicky 2019). Forest streams (Oláh & Malicky 2010). Streams (Bunlue *et al.* 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **China** (Sun & Yang 1995), **Laos** (Malicky 2010a), **Malaysia** (Banks 1931a; Huisman & Armitage 2011), **Thailand** (Bunlue *et al.* 2012; Malicky & Chantaramongkol 1989a; Malicky 2019), **Vietnam** (Thua Thien-Hue Province: Armitage & Arefina 2003a; Oláh 2013; Lao Cai Province: Mey 2005; Quang Tri Province: Oláh & Malicky 2010).

*Remarks.* The male was re-described and female described by Armitage & Arefina (2003a).

***Rhyacophila meyi* Armitage & Arefina 2003**

*Rhyacophila meyi* Armitage & Arefina 2003a: 111.

*Type locality.* Vietnam, Kon Tum Province, Nhoc-Mi River, 2 km S Ngoc Linh, 15°05' 14.8''N, 107°55'38.9''E, 1070 m.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Kon Tum Province: Armitage & Arefina 2003a).

***Rhyacophila multispinomera* Sun & Yang, 1998**

*Rhyacophila multispinomera* Sun & Yang, 1998: 15.

*Type locality.* China, Yun-nan, Ping-bian-xian, Di-shui-ceng-xiang, Qian-jing-cun, head of Mi-shu-he, 1440 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Oláh 2013, Oláh & Malicky 2010).

***Rhyacophila nephroidea* Sun & Yang, 1998**

*Rhyacophila nephroidea* Sun & Yang, 1998: 15.

*Type locality.* Yun-nan, Ping-bian-xian, A-de-bo-xiang, Kun-he-cun, 1450 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Lao Cai Province: Mey 2005).

*Remarks.* Antennal sensillae were described by Valuyskiy, Melnitsky & Ivanov (2017).

***Rhyacophila okuihana* Mey, 1996**

*Rhyacophila okuihana* Mey, 1996a: 47.

*Type locality.* Vietnam, Okuiho, 14 km nördlich Sa Pa, am Fuße des Fan Si Pan Bergmassiv, 1100 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Rhyacophila olahi* Armitage & Arefina, 2003**

*Rhyacophila olahi* Armitage & Arefina, 2003a: 112.

*Type locality.* Vietnam, Thừa Thiên Huế Province, Bach Ma National Park, near junction of Rhododendron and Five Lakes trails.

*Type depository.* Male holotype in ROM.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Armitage & Arefina 2003a; Oláh 2013; Oláh & Malicky 2010).

***Rhyacophila paratecta* Mey, 1996**

*Rhyacophila paratecta* Mey, 1996a: 43.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

***Rhyacophila parilis* Mey, 1998**

*Rhyacophila parilis* Mey, 1998a: 6.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005).

***Rhyacophila quadrifida* Sun & Yang, 1995**

*Rhyacophila quadrifida* Sun & Yang, 1995: 28.

*Type locality.* China, Shaanxi, Hua-shan Mt., Wu-li-guan, 695 m.

*Type depository.* Male holotype in NAU.

*Habitat.* Unknown.

*Distribution.* **China** (Sun & Yang, 1995), **Vietnam** (Lao Cai Province: Mey 2005).

***Rhyacophila ranga* Oláh, 1987**

*Rhyacophila ranga* Oláh, 1987: 146.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in HNHM.

*Habitat.* Streams (Oláh 1987).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 2005; Vinh Phuc Province: Oláh 1987).

***Rhyacophila rhombica* Martynov, 1935**

*Rhyacophila rhombica* Martynov, 1935a: 98.

*Type locality.* India, West Bengal, Darjiling District, 7000 ft.

*Type depository.* Male holotype in IMK.

*Habitat.* Waterfalls (Armitage & Arefina 2003a). Streams (Malicky 2007a).

*Distribution.* **Bhutan** (Malicky 2007a), **India** (Ghosh & Chaudhury 1998; Martynov 1935a), **Nepal** (Malicky 2018a), **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

*Remarks.* The male was re-described by Armitage & Arefina (2003a).

***Rhyacophila scissa* Morton, 1900**

*Rhyacophila scissa* Morton, 1900: 5.

*Type locality.* [India, Assam] Khasia Hills.

*Type depository.* Male lectotype designated by Kimmins (1953a), in NHM.

*Habitat.* Streams (Oláh 1987), large waterfalls (Armitage & Arefina 2003a). Streams (Bunlue et al. 2012). Streams (Malicky 2007a). Spring stream (Malicky 2017b).

*Distribution.* **Bhutan** (Malicky 2007a), **China** (Sun 2016a; Yang et al. 2005), **India** (Morton 1900; Yang et al. 2005) **Myanmar** (Kimmins 1953; Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2017b; Malicky 2018a), **Thailand** (Bunlue et al. 2012), **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a, Mey 2005; Vinh Phuc Province: Oláh 1987, Oláh & Malicky 2010).

*Remarks.* The male was re-described by Kimmins 1953 and Armitage & Arefina (2003a).

***Rhyacophila scissoides* Kimmins, 1953**

*Rhyacophila scissoides* Kimmins, 1953: 520.

*Type locality.* India, Khasi Hills.

*Type depository.* Male holotype in NHM.

*Habitat.* Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laundee & Prommi 2011a). Streams (Bunlue et al. 2012). Brooks and streams (Malicky 2006a).

*Distribution.* **China** (Yang et al. 2005), **India** (Kimmins 1953), **Nepal** (Malicky 2006a; Mattern 2015), **Thailand** (Bunlue et al. 2012; Laundee & Prommi 2011), **Vietnam** (Lao Cai Province: Mey 2005).

***Rhyacophila smithi* Armitage & Arefina, 2003**

*Rhyacophila smithi* Armitage & Arefina, 2003a: 97.

*Type locality.* Vietnam, Lào Cai Province, near Sa Pa, large waterfall on road from Sa Pa to Lai Chau.

*Type depository.* Male holotype in ROM.

*Habitat.* Waterfall (Armitage & Arefina 2003a)

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a).

***Rhyacophila tamdaoensis* Malicky, 1995**

*Rhyacophila tamdaoensis* Malicky, 1995a: 852.

*Type locality.* Vietnam, Tam Dao, 21°28'N, 105°38'E, 800–1100 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

***Rhyacophila tamdaona* Oláh, 1987**

*Rhyacophila tamdaona* Oláh, 1987: 143.

*Type locality.* Vietnam, Tamdao.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams and waterfalls (Armitage & Arefina 2003a).

*Distribution.* **Vietnam** (Lao Cai Province: Armitage & Arefina 2003a; Thua Thien-Hue Province: Armitage & Arefina 2003a; Vinh Phuc Province: Oláh 1987).

*Remarks.* The female was described by Armitage & Arefina (2003a).

***Rhyacophila veforma* Oláh, 2013**

*Rhyacophila veforma* Oláh, 2013a: 95.

*Type locality.* Vietnam, Binh Tri Thien Province [Thua Thien-Hue Province], Bach Ma National Park, 700 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Oláh 2013).

***Rhyacophila vernestril* Mey, 1996**

*Rhyacophila vernestril* Mey, 1996a: 43.

*Type locality.* Vietnam, nordwestlich Sa Pa, Fan Si Pan Gebirgsmassiv, Westseite, 1400–1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1996a, Mey 2005).

**Sericostomatidae Stephens, 1836**

***Gumaga quyeni* Malicky, 1995**

*Gumaga quyeni* Malicky, 1995a: 873.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 1995a).

**Stenopsychidae Martynov, 1924**

***Stenopsyche angustata* Martynov, 1930**

*Stenopsyche angustata* Martynov, 1930: 74.

*Type locality.* China, W. China, Chin-Fu-San.

*Type depository.* Male holotype in NHM.

*Habitat.* Unknown.

*Distribution.* **China** (Martynov 1930; Yang, Sun & Morse 2016), **Vietnam** (Ha Giang Province: Hoang & Bae 2007. Lao Cai Province: Hoang & Bae 2007, Mey 2005, Oláh 2013. Thua Thien-Hue Province: Hoang & Bae 2007. Vinh Phuc Province: Hoang & Bae 2007, Oláh & Malicky 2010).

*Remarks.* The larva and female were described by Hoang & Bae (2007a). The male, female and larva were re-described by Xu, Sun & Wang (2015).

***Stenopsyche babeana* Oláh & Malicky, 2010**

*Stenopsyche babeana* Oláh & Malicky, 2010: 24.

*Type locality.* Vietnam, Bac Kan Province, Ba Be National Park, near park headquarters.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Malicky 2010).

#### ***Stenopsyche conthienga* Oláh & Malicky, 2010**

*Stenopsyche conthienga* Oláh & Malicky, 2010: 24.

*Type locality.* Vietnam, Quang Tri Province, Huang Hoa District, Huang Hoa Nature Reserve, near Cup Village, centered at 16°56'15N, 106°34'52E, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Oláh 2013; Nghe An Province: Oláh 2013; Quang Tri Province: Oláh & Malicky 2010).

#### ***Stenopsyche coomani* Navás, 1932**

*Stenopsyche coomani* Navás, 1932a: 934.

*Type locality.* Tonkin [Vietnam], r ég de Hoa Binh [Hoa Binh Province].

*Type depository.* According to Hoang & Bae (2007a) the male holotype is missing.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa binh Province: Navás 1932a).

*Remarks.* The name is listed as *nomen dubium* according by Hoang & Bae (2007a).

#### ***Stenopsyche dakpri* Hoang & Bae, 2007**

*Stenopsyche dakpri* Hoang & Bae, 2007: 4.

*Type locality.* Vietnam, Dak Lak Prov, Dak Song County, Dak Pri Creek, 630 m.

*Type depository.* Male holotype in SWU.

*Habitat.* Riffle and waterfall in streams (Hoang & Bae 2007).

*Distribution.* **Vietnam** (Dak Lak Province: Hoang & Bae 2007. Lam Dong Province: Hoang & Bae 2007. Thua Tien-Hue Province: Hoang & Bae 2007).

*Remarks.* The female and larva were described by Hoang & Bae (2007a).

#### ***Stenopsyche egyenes* Oláh, 2013**

*Stenopsyche egyenes* Oláh, 2013a: 58.

*Type locality.* Vietnam, Vinh Phuc Province, Tam Dao.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

#### ***Stenopsyche fissa* Navás, 1932**

*Stenopsyche fissa* Navás, 1932a: 936.

*Remarks.* The name is listed as *nomen dubium* according by Hoang & Bae (2007a).

#### ***Stenopsyche hamata* Navás, 1930**

*Stenopsyche hamata* Navás, 1930b: 12.

*Type locality.* Annam, Hatri.

*Type depository.* The male neotype designated by Schmid (1949:326) is in MZBS.

*Habitat.* Unknown.

*Distribution.* **Myanmar** (Mey & Malicky 2021), **Vietnam** (Ha Noi Province: Hoang & Bae 2007).

*Remarks.* The type material is missing according to Hoang & Bae (2007a).

#### ***Stenopsyche himalayana* Martynov, 1926**

*Stenopsyche himalayana* Martynov, 1926: 298.

*Stenopsyche himayrana* [sic]; Saiito et al. 2018a: 562.

*Type locality.* India, N.E. Assam, 27°53'N, 95°5'E.

*Type depository.* Male holotype in NHM.

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **India** (Martynov 1926), **Myanmar** (Wityi, Nozaki & Fujino 2015), **Nepal** (Malicky 2006a; Malicky 2017b; Malicky 2018a; Mattern 2015), **Pakistan** (Oláh 1994), **Thailand** (Chantaramongkol, Thapanya & Bunlue 2010), **Vietnam** (Lao Cai Province: Mey 2005a; Nghe An Province: Oláh 2013).

#### ***Stenopsyche ivalak* Oláh, 2013**

*Stenopsyche ivalak* Oláh, 2013a: 59.

*Type locality.* Vietnam, Vinh Phuc Province, Tam Dao.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh 2013).

### ***Stenopsyche laminata* Ulmer, 1926**

*Stenopsyche laminata* Ulmer, 1926: 38.

*Stenopsyche laminata* [sic] Yang et al. 2005: 449.

*Type locality.* China, Kuangtung Province, Drachenkopf.

*Type depository.* Male syntypes in ZMH.

*Habitat.* Streams in foresta (Ulmer 1926).

*Distribution.* **China** (Yang, Sun & Morse 2016), **Laos** (Yang, Sun & Morse 2016), **Vietnam** (Hoa Binh Province: Oláh & Malicky 2010).

### ***Stenopsyche siamensis* Martynov, 1931**

*Stenopsyche siamensis* Martynov, 1931: 5.

*Type locality.* [Thailand] Lower Siam, Khow Sai, Trong.

*Type depository.* Male holotype in USNM.

*Habitat.* Streams (Laudee & Chantaramongkol 2002, Laudee & Chantaramongkol 2003). Running water at moderate altitude (220 m) with mixed bottom of bedrock, boulder, cobble, gravel and sand (Laudee & Prommi 2011a). Streams (Hoang & Bae 2007). Rivers with waterfalls (Melnitsky & Malicky 2008). Tributaries and above waterfalls (Malicky, Suwannarat & Laudee 2018). Fast-flowing, clean streams with bottom of rough sand and large stones (Petsut, Kulabtong & Sreesamran 2012).

*Distribution.* **Cambodia** (Malicky, Melnitsky & Ivanov 2014), **Malaysia** (Hoang & Bae 2007), **Thailand** (Klaithong 2003; Laudee & Chantaramongkol 2002; Laudee & Chantaramongkol 2003; Laudee & Prommi 2011; Malicky, Suwannarat & Laudee 2018; Martynov 1931; Melnitsky & Malicky 2008; Petsut, Kulabtong & Sreesamran 2012), **Vietnam** (Da Nang City: Hoang & Bae 2007. Lam Dong Province: Hoang & Bae 2007. Nghe An Province: Hoang & Bae 2007. Quang Nam Province: Hoang & Bae 2007. Quang Tri

Province: Oláh & Malicky 2010. Thua Thien-Hue Province: Hoang & Bae 2007).

*Remarks.* Certain toxicity responses on morphology in the larvae were described by Laudee & Chantaramongkol (2002a). The life history was described by Laudee & Chantaramongkol (2003a). Variations in the male genitalia was described by Klaithong (2003a) and Malicky (2003). The male and larva was re-described by Hoang & Bae (2007a).

### ***Stenopsyche siniaevi* Arefina-Armitage & Armitage, 2015**

*Stenopsyche siniaevi* Arefina-Armitage & Armitage, 2015: 4.

*Type locality.* Vietnam, Quang Nam Province, Plato Tay Nguyen, Ngoc Linh, 900–1400 m, 15°02'N, 107°59'E.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Nam Province: Arefina-Armitage & Armitage 2015).

### ***Stenopsyche ulmeri* Navás, 1932**

*Stenopsyche ulmeri* Navás, 1932a: 937.

*Type locality.* Tonkin [Vietnam], Chapa [Sa Pa].

*Type depository.* Male syntypes in unknown institution.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Lao Cai Province: Hoang & Bae 2007, Mey 2005, Oláh 2013. Vinh Phuc Province: Mey 1995).

*Remarks.* The male was re-described and the female and larva were described by Hoang & Bae (2007a).

### ***Stenopsyche uncinata* Navás, 1930**

*Stenopsyche uncinata* Navás, 1930b: 10.

*Type locality.* Tonkin.

*Type depository.* Male and female syntypes in MZBS. Male neotype designated by Schmid (1949: 328).

*Habitat.* Unknown.

*Distribution.* **China** (Yang, Sun & Morse 2016), **Vietnam** (Quang Tri Province: Oláh 2013; Oláh & Malicky 2010; Vinh Phuc Province: Mey 1995, Navás 1930b).

*Remarks.* A diagnosis was given by Hoang & Bae (2007a). The morphology of the species was discussed by Oláh & Malicky (2010a).

*Stenopsyche vicina* Navás, 1932

*Stenopsyche vicina* Navás, 1932a: 938.

*Remarks.* The name is listed as *nomen dubium* by Hoang & Bae (2007a).

### Xiphocentronidae Ross, 1949

#### *Abaria catba* Oláh & Johanson, 2010

*Abaria catba* Oláh & Johanson, 2010d: 257.

*Type locality.* Vietnam, Halong Bay, Cat Ba Island.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Quang Ninh Province: Oláh & Johanson 2010d).

#### *Abaria cuna* Oláh & Johanson, 2010

*Abaria cuna* Oláh & Johanson, 2010d: 258.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Small streams (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010d).

#### *Abaria damra* Oláh & Johanson, 2010

*Abaria damra* Oláh & Johanson, 2010d: 259.

*Type locality.* Vietnam, Ninh Binh Province, Cucphuong National Park, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d. Ninh Binh Province: Oláh & Johanson 2010d).

#### *Abaria dehena* Oláh & Johanson, 2010

*Abaria dehena* Oláh & Johanson, 2010d: 261.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

#### *Abaria dogoca* Oláh & Johanson, 2010

*Abaria dogoca* Oláh & Johanson, 2010d: 262.

*Type locality.* Vietnam, Ninh Binh Province, Cucphuong National Park, 400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Johanson 2010d; Son La Province: Oláh & Johanson 2010d).

#### *Abaria dunga* Oláh & Johanson, 2010

*Abaria dunga* Oláh & Johanson, 2010d: 273.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

#### *Abaria guatila* Malicky & Chantaramongkol, 1992

*Abaria guatila* Malicky & Chantaramongkol, 1992a: 19.

*Type locality.* Thailand, Chiangmai Zoo.

*Type depository.* Male holotype in OPC.

*Habitat.* Spring streams with sand, gravel and rock bottom as well as leaves, pH 7.6-7.8 (Prommi & Chantaramongkol 2005). Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1992a; Prommi & Chantaramongkol 2005; Prommi & Thamsen-anupap 2012), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Abaria hamatit* Malicky, 2009**

*Abaria hamatit* Malicky, 2009a: 31.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2009a).

***Abaria hintragionga* Oláh & Johanson, 2010**

*Abaria hintragionga* Oláh & Johanson, 2010d: 265.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

***Abaria hintraia* Oláh & Johanson, 2010**

*Abaria hintraia* Oláh & Johanson, 2010d: 266.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 200 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Small streams (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010d; Vinh Phuc Province: Oláh & Johanson 2010d).

***Abaria hintratra* Oláh & Johanson, 2010**

*Abaria hintratra* Oláh & Johanson, 2010d: 267.

*Type locality.* Vietnam, Lamdong Province, Baoloc, Baco Stream.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010d).

***Abaria nua* Oláh & Johanson, 2010**

*Abaria nua* Oláh & Johanson, 2010d: 268.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

***Abaria quangcha* Oláh & Johanson, 2010**

*Abaria quangcha* Oláh & Johanson, 2010d: 270.

*Type locality.* Vietnam, Bac Thai Province, Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

***Abaria ratgaya* Oláh & Johanson, 2010**

*Abaria ratgaya* Oláh & Johanson, 2010d: 271.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

***Abaria tamgiaca* Oláh & Johanson, 2010**

*Abaria tamgiaca* Oláh & Johanson, 2010d: 272.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).

***Abaria trung* Oláh & Johanson, 2010**

*Abaria trung* Oláh & Johanson, 2010d: 263.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d).



***Cnodocentron filamenta* Oláh & Johanson, 2010**

*Cnodocentron filamenta* Oláh & Johanson, 2010d: 246.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1300 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Stream surrounded by forest (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010d).

***Drepanocentron curmisagius* Malicky & Chantaramongkol 1992**

*Drepanocentron curmisagius* Malicky & Chantaramongkol, 1992a: 19.

*Type locality.* Thailand, Doi Sutep, 900 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Bunlue et al. 2012).

*Distribution.* **Thailand** (Bunlue et al. 2012; Malicky & Chantaramongkol 1992a), **Vietnam** (Vinh Phuc Province: Malicky pers. comm. 2021).

***Drepanocentron dabac* Oláh & Johanson, 2010**

*Drepanocentron dabac* Oláh & Johanson, 2010d: 248.

*Type locality.* Vietnam, Ha Son Binh Province, Hoabinh, towards Dabac.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Hoa Binh Province: Oláh & Johanson 2010d)

***Drepanocentron dem* Oláh & Johanson, 2010**

*Drepanocentron dem* Oláh & Johanson, 2010d: 249.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu, cave entrance.

*Type depository.* Male holotype in OPC.

*Habitat.* Cave (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Bac Kan Province: Oláh & Johanson 2010d)

***Drepanocentron dentatum* Genco, Morse, Caterino, Murray-Stoker & Pham, 2020**

*Drepanocentron dentatum* Genco, Morse, Caterino, Murray-Stoker & Pham, 2020: 81.

*Type locality.* Vietnam, Bac Mã [=Bach Ma] National Park, Krem Stream, upstream of culvert at road, 16.1958°N, 107.8490°E, 1159 m.

*Type depository.* Male holotype in VNMN.

*Habitat.* Streams (Genco et al. 2020).

*Distribution.* **Vietnam** (Thua Thien-Hue Province: Genco et al. 2020).

***Drepanocentron jezer* Malicky, 2009**

*Drepanocentron jezer* Malicky, 2009a: 34.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2009a).

***Drepanocentron jimna* Malicky, 2009**

*Drepanocentron jimna* Malicky, 2009a: 34.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2009a).

***Drepanocentron jiska* Malicky, 2009**

*Drepanocentron jiska* Malicky, 2009a: 34.

*Type locality.* Vietnam, Tam Dao, 800–1100 m, 21°28'N, 105°38'E.

*Type depository.* Male holotype in MPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Malicky 2009a).

***Drepanocentron mochau* Oláh & Johanson, 2010**

*Drepanocentron mochau* Oláh & Johanson, 2010d: 250.

*Type locality.* Vietnam, Son La Province, Moch Chau.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Son La Province: Oláh & Johanson 2010d).

***Drepanocentron phuong* Oláh & Johanson, 2010**

*Drepanocentron phuong* Oláh & Johanson, 2010d: 251.

*Type locality.* Vietnam, Ninh Binh Province, Cucphuong National Park.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Ninh Binh Province: Oláh & Johanson 2010d).

***Drepanocentron tamdaona* Oláh & Johanson, 2010**

*Drepanocentron tamdaona* Oláh & Johanson, 2010d: 252.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010d).

***Drepanocentron vang* Oláh & Johanson, 2010**

*Drepanocentron vang* Oláh & Johanson, 2010d: 253.

*Type locality.* Vietnam, Lamdong Province, Dalat, Vang River.

*Type depository.* Male holotype in OPC.

*Habitat.* Streams (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010d).

***Drepanocentron vangiong* Oláh & Johanson, 2010**

*Drepanocentron vangiong* Oláh & Johanson, 2010d: 255.

*Type locality.* Vietnam, Lamdong Province, Dalat, Datangla waterfall.

*Type depository.* Male holotype in OPC.

*Habitat.* Waterfalls (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Lam Dong Province: Oláh & Johanson 2010d).

***Drepanocentron vongana* Oláh & Johanson, 2010**

*Drepanocentron vongana* Oláh & Johanson, 2010d: 256.

*Type locality.* Vietnam, Vinh Phuc Province, Tamdao, 1400 m.

*Type depository.* Male holotype in OPC.

*Habitat.* Small stream in forest (Oláh & Johanson 2010d).

*Distribution.* **Vietnam** (Vinh Phuc Province: Oláh & Johanson 2010d).

***Melanotrichia attiaides* Mey, 1998**

*Melanotrichia attiaides* Mey, 1998a: 16.

*Type locality.* Vietnam: Lao Cai Province, Hoang Lien Mountains, northwest of Sa Pa, Fan Si Pan Massif, 22°20'N, 103°40'E, 1600 m.

*Type depository.* Male holotype in ZMHB.

*Habitat.* Primary forest (Mey 1998a).

*Distribution.* **Vietnam** (Lao Cai Province: Mey 1998a, Mey 2005a; Vinh Phuc Province: Oláh & Johanson 2010d).

***Melanotrichia samaconius* Malicky & Chantaramongkol, 1992**

*Melanotrichia samaconius* Malicky & Chantaramongkol, 1992a: 20.

*Type locality.* Thailand, Doi Inthanon, Nebenbach des Mae Klang, 540 m.

*Type depository.* Male holotype in MPC.

*Habitat.* Streams (Malicky & Chantaramongkol 1992a). Cascading waterfalls (Malicky, Ivanov & Melnitsky 2014).

*Distribution.* **Indonesia** (Malicky, Ivanov & Melnitsky 2014), **Malaysia** (Malicky, Ivanov & Melnitsky 2014), **Thailand** (Malicky & Chantaramongkol 1992a).

mongkol 1992a), Vietnam (Lam Dong Province: Oláh & Johanson 2010d).

***Melanotrichia trona* Oláh & Johanson, 2010**

*Melanotrichia trona* Oláh & Johanson, 2010d: 245.

*Type locality.* Vietnam, Bac Thai Province [Bac Kan Province], Quang Chu.

*Type depository.* Male holotype in OPC.

*Habitat.* Unknown.

*Distribution.* Vietnam (Bac Kan Province: Oláh & Johanson 2010d).

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