

## Caddis flies (Insecta: Trichoptera) in the collection of the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv

Bronisław SZCZĘSNY and Roman J. GODUNKO

Received: 19 Apr. 2006

Accepted: 5 Feb. 2007

SZCZĘSNY B., GODUNKO R. J. 2007. Caddis flies (Insecta: Trichoptera) in the collection of the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv. *Acta zoologica cracoviensis*, 50B(2): 27-43.

**Abstract.** The collection includes 1429 specimens representing 177 species/subspecies; 159 specimens belonging to 32 species are determined herein, and determinations of further 174 specimens of 54 species are corrected. The largest share of caddis flies were collected, identified and prepared by J. DZIĘDZIELEWICZ from the second half of 19<sup>th</sup> century to 1916. All specimens had been originally preserved dry but were moved to alcohol prior to the current identification. The collection comprises 177 specimens of all Carpathian species described by DZIĘDZIELEWICZ (seven taxa), by KŁAPÁLEK (three taxa) and by SCHMID (two taxa). Among them there are lectotypes of two species (*Chionophylax czarnohoricus* (DZIĘDZIELEWICZ), ♂ and *Drusus carpathicus* DZIĘDZIELEWICZ (♂)), syntypes of 2 taxa (*Chionophylax subradiata* KŁAPÁLEK, *Isogamus aequalis* (KŁAPÁLEK)), *Apatania carpathica* SCHMID. There are also 33 paralectotypes representing six species and 33 specimens of five species with the status *locus typicus*. A list of incorrectly identified or labelled taxa is presented.

**Key words:** Trichoptera, museum collection, West Ukraine, East Carpathians, lectotypes, paralectotypes.

Bronisław SZCZĘSNY, Institute of Nature Conservation, Polish Academy of Sciences, 33 A. Mickiewicza Av., 31-120 Kraków, Poland.  
E-mail: szczesny@iop.krakow.pl

Roman J. GODUNKO, State Museum of Natural History, National Academy of Sciences of Ukraine, Teatralna 18, 79008 Lviv, Ukraine or: Biology Centre of the Academy of Science of the Czech Republic, Institute of Entomology and Biological Faculty, University of South Bohemia, Branišovská 31, 37005 České Budějovice, Czech Republic.  
E-mail: godunko@museum.lviv.net, godunko@seznam.cz

### I. INTRODUCTION

A numerous collection of caddis flies (adults only) was previously stored in the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv. The museum, founded in second half of the 19<sup>th</sup> century by count Włodzimierz DZIEDUSZYCKI (\*1825 -†1899), was formerly known as DZIEDUSZYCKI's Museum (Muzeum DZIEDUSZYCKICH). The majority of the specimens were collected by Maksymilian NOWICKI and identified by Dr. F. BRAUER from Vienna.

This identification probably took place in 1864 and the collection was a valuable help for the young enthusiast J. DZIEDZIELEWICZ (\*1844 -†1918) in studying caddis flies in the Carpathians and surroundings. During the following 50 years (until 1916) DZIEDZIELEWICZ cooperated with the Museum and supplied the entomological collections with numerous specimens.

DZIEDZIELEWICZ also delivered a comparatively high number of insects to the entomological collections kept at the Museum of Physiographical Commission of the Academy of Sciences and Letters in Kraków (Poland). These specimens served as documentary material, which scientists were obligated to deposit to account for their field study grant money. The material, now housed in the Museum of Natural History, Institute of Systematics and Evolution of Animals, Polish Academy of Sciences in Kraków were verified in 1978 (SZCZĘSNY 1980). The verification of Lviv materials became possible 28 years later, thanks to a new political situation.

## II. SPECIES LIST

Abbreviations for geographical regions:

- BeWys – Beskid Wyspowy (Poland)
- Czar – Czarnohora massif (Ukraine)
- E-CF – East-Carpathian foothills (only in the Dniestr and Prut basins including the vicinity of Słobódka Leśna village at Kołomyja, Ukraine)
- Gor – Gorgany massif (Ukraine)
- KCU – Krakowsko-Częstochowska Upland (Poland)
- PU – Podolska Upland (including Opole in Poland and Gołogóry at Ukraine)
- PogWi – Pogórze Wiśnickie (Poland)
- R – Roztocze (Lubelskie, Lubelsko-Lwowskie, Lwowskie, Wyżyna Lubelsko-Lwowska) (Poland and Ukraine)

More accurate descriptions of the capture location are given when referring to species important from the taxonomic or biogeographical point of view, and specimens wrongly identified or labelled. Names of localities are given in the original notation as they appear in the documents of the collections.

Note: in the paper the name of the region situated to the east of Roztocze and covering the upper Bug basin and the upper Styr basin is named according to the Ukrainian geographical division as Polesie Małe (HERENCHUK et al. 1964); but according to KONDRAKCI's division (KONDRAKCI 2000) it is called Wyżyna Wołyńska (Wołyńska Upland).

If not otherwise stated, all specimens belong to the State Museum of Natural History, National Academy of Sciences of Ukraine.

Other abbreviations:

MP ISEZ – the Natural History Museum of the Institute of Systematics and Evolution of Animals, Kraków, Poland.

M.R. – abbreviation for Maria RACIĘCKA, used in old labels

NMP – the National Museum (Natural History Department) in Prague, Czech Republic

### **Rhyacophilidae**

*Rhyacophila fasciata* HAGEN, 1859, 35♂♂, 6♀♀; WC: PogWi (Myślenice), Beskid Makowski, EC: Czar (Worochta), Gor; PU (Gołogóry); 33 specimens bore labels “*Rhyacophila septentrionis* MCLACH.”; 2 specimens from Worochta were wrongly identified as “*Rhyacophila mocsaryi* KŁAP. det. M.R.”.

*Rh. flava* KŁAPÁLEK, 1898, 7♂♂; EC: Czar; all specimens bore labels with the old synonym, “*Rhyacophila furcata* DZIEDZIELEWICZ”.

*Rh. glareosa* MCLACHLAN, 1867, 4♂♂, 1♀; WC: Tatra Mts.

*Rh. laevis* PICTET, 1834, 4♂♂, 1♀; EC: Gor (Chomiak).

*Rh. mocsaryi* KŁAPÁLEK, 1898, 9♂♂, 3♀♀; EC: Czar, Gor.

*Rh. nubila* ZETTERSTEDT, 1840, 12♂♂, 12♀♀; WC: Babia Góra, PogWi (Myślenice); EC: Czar, Gor; E-CF (Pokucie); KCU (Krzeszowice); 1♀ collected 4.IX in Krzeszowice was wrongly identified by BRAUER in 1860's as "*Rhyacophila aurata*".

*Rh. obliterata* MCLACHLAN, 1863, 15♂♂, 4♀♀; EC: PogWi (Myślenice), EC: Czar, Gor; E-CF (Pokucie).

*Rh. philopotamoides* MCLACHLAN, 1879, 20♂♂, 1♀; WC: BeWys (Uklejna), EC: Czar, Gor; E-CF (Pokucie); 1♂ caught 8.VI.1916 at Uklejna Mtn was wrongly labelled as "*Rhyacophila septentrionis* MCL. det. M.R."

*Rh. polonica* MCLACHLAN, 1879, 15♂♂, 2♀♀; WC: Tatra Mts, BeWys; EC: Czar, Gor; three specimens from the Tatra Mts and the Czarnohora massif were wrongly labelled as "*Rhyacophila vulgaris*", and 10 other specimens bore labels with the synonym "*Rhyacophila hageni* MCLACH. det. M.R.".

*Rh. torrentium* PICTET, 1834, 1♂, 1♀; EC: Czar (Worochta).

*Rh. tristis* PICTET, 1834, 5♂♂, 5♀♀; WC: BeWys, PogWi, EC: Czar, Gor; genital structure of a male (macerated in KOH) from Gorgany is presented in Figs 1-2.

*Rh. vulgaris* PICTET, 1834, 6♂♂; Tatra Mts; 3 specimens were incorrectly identified by BRAUER in 1860s as "*Rhyacophila aurata*" (NOWICKI 1865).

### Glossosomatidae

*Agapetus delicatulus* MCLACHLAN, 1884, 2♂♂, 2♀♀; EC: Gor, Pokucie; 2♂♂ and 1♀ were wrongly identified as "*Agapetus laniger*".

*A. laniger* PICTET, 1834, 1♂; E-CF (Kołomyja); male bore a label "*Agapetus pactus*".

*A. ochripes* CURTIS, 1834, 3♂♂, 1♀; EC: Czar, Gor (Mikuliczyn), Pokucie; 1♂ and 1♀ collected at Mikuliczyn were wrongly identified as "*Agapetus delicatulus*", others were labelled with the synonym "*Agapetus comatus*".

*Glossosoma boltoni* CURTIS, 1834, 7♂♂, 2♀♀; WC: BeWys, EC: Czar (Worochta), Gor; E-CF (Prut at Kołomyja); 2♂♂ from Worochta were labelled „*Glossosoma vernale* PICT det. M.R.”.

*G. conformis* NEBOISS, 1963, 1♂, EC: Czar (Worochta); 1♀, EC: Gor (Chomiak); male was labelled „*Glossosoma boltoni*”, while female was wrongly identified as "*Agapetus fuscipes*".

*G. intermedium* (KŁAPÁLEK, 1892), 4♂♂; EC: Gor.

*Synagapetus armatus* (MCLACHLAN, 1879), 1♂, 3♀♀; EC: Gor, Pokucie.

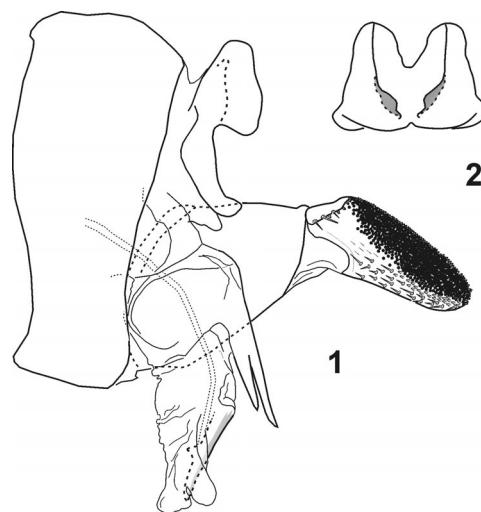
*S. iridipennis* MCLACHLAN, 1879, 2♂♂, 2♀♀; WC: BeWys (Myślenice); all specimens were wrongly identified as "*Pseudagapetus insons* MC.LACH. det. M.R."

### Hydroptilidae

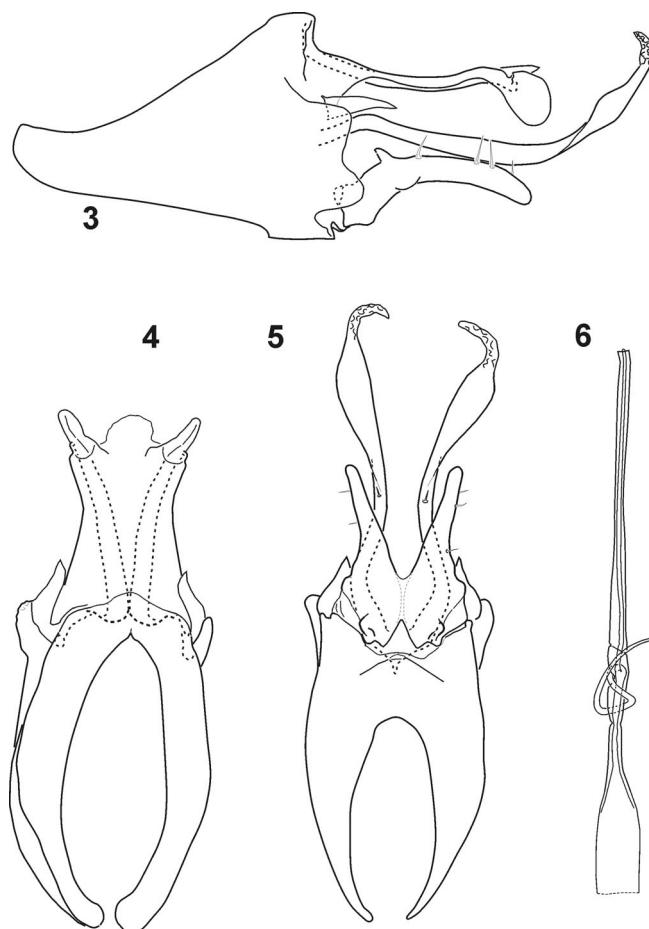
*Agraylea multipunctata* CURTIS, 1834, 1♂; Lithuania (Troki).

*A. sexmaculata* CURTIS, 1834, 2♂♂; EC: Gor; PU (Podhorce); both specimens were wrongly identified as "*Agraylea multipunctata*".

*Hydroptila brissaga* MALICKY, 1996 (?), 1♂ (macerated in KOH); EC: Gor (Mikuliczyn, coll. STOCKEL 9/7.904; the set of numerals probably denotes the date of collection – 9.VII.1904); the specimen was wrongly identified as "*Hydroptila femoralis*" (now the synonym of *H. tineoides*). Prof. Hans MALICKY from Austria kindly confirmed my identification. However, there are some details in the genital structure different when compared with the typical *H. brissaga*. These are: the specific sculpture on latero-distal ends of the X segment, small differences in the shape of inferior appendages laterally and ventrally and the lateral hook of segment IX (Figs 3-6). According to



Figs 1-2: *Rhyacophila tristis* PICTET, male genitalia (1, lateral; 2, segment X dorsal).



Figs 3-6: *Hydroptila brissaga* MALICKY, male genitalia (3, lateral, 4, dorsal, 5, ventral, 6, aedeagus dorsal).

MALICKY, the individual and geographic variation should be known in order to be able to decide whether the East Carpathian population represents a separate species.

*H. tineoides* DALMAN, 1819, 2♀♀; EC: Gor; both specimens bore label with synonym “*Hydropsyche femoralis*”.

*Oxyethira* spp.; fragments of four specimens were labelled “*Oxyethira costalis* CURT.”

### Philopotamidae

*Philopotamus ludificatus* MCLACHLAN, 1878, 10♂♂, 1♀; WC: Tatra Mts, BeWys.

*Ph. montanus* (DONOVAN, 1813), 8♂♂, 3♀♀; WC: BeWys, EC: Czar, Gor.

*Ph. variegatus* (SCOPOLI, 1763), 8♂♂, 6♀♀; EC: Czar, Gor; E-CF (Pniów).

*Wormaldia occipitalis* (PICTET, 1834), 13♂♂, 4♀♀; WC: BeWys, EC: Czar, Gor; E-CF (Słobódka Leśna); 6♂♂ from Czarnohora were incorrectly labelled “*Wormaldia triangulifera*”.

*W. pulla* (MCLACHLAN, 1878), 2♂♂; EC: Gor (Mikuliczyn).

### Ecnomidae

*Ecnomus tenellus* (RAMBUR, 1842), 4♂♂, 1♀; R (Janów); Lithuania (Troki).

### Polycentropodidae

*Cyrnus crenaticornis* (KOLENATI, 1859), 5♂♂; R (Janów, Gródek); 2♂♂ from Janów incorrectly labelled “*Ecnomus tenellus*”.

*C. flavidus* MCLACHLAN, 1864, 2♂♂; PU (valley of the river Seret).

*C. trimaculatus* (CURTIS, 1834), 1♂; Lithuania.

*Holocentropus dubius* (RAMBUR, 1842), 5♂♂, 2♀♀; R; E-CF (Słobódka Leśna); 1♀ of unknown origin incorrectly identified as “*Holocentropus picicornis*”.

*Neureclipsis bimaculata* (LINNAEUS, 1761), 5♂♂, 2♀♀; R (Janów).

*Plectrocnemia brevis* MCLACHLAN, 1871, 4♂♂, 1♀; WC: BeWys, EC: Gor, Pokucie.

*P. conspersa* (CURTIS, 1834), 8♂♂, 1♀; EC: Czar, Gor; Polesie Małe (Hołosko, Poturzyca).

*Polycentropus flavomaculatus* (PICTET, 1834), 10♂♂, 5♀♀; WC: Tatra Mts, BeWys, PogWi; EC: Gor (Mikuliczyn), Pokucie; 1♂ from Mikuliczyn wrongly identified as “*Polycentropus multiguttatus* CURT.”

*P. irroratus* CURTIS, 1835, 2♂♂; R.

### Psychomyidae

*Lype phaeopa* (STEPHENS, 1836), 1♀; R (Janów).

*L. reducta* (HAGEN, 1868), 1♂; E-CF (Majdan Górnny).

*Psychomyia pusilla* (FABRICIUS, 1781), 6♂♂, 2♀♀; EC: Czar, Gor, Pokucie; E-CF; Lithuania (Wilno).

*Tinodes rostocki* MCLACHLAN, 1878, 5♂♂, 1♀; WC: BeWys, PogWi.

*T. waeneri* (LINNAEUS, 1758), 1♂; Lithuania (Troki).

### Hydropsychidae

*Cheumatopsyche lepida* (PICTET, 1834), 5♂♂, 2♀♀; WC: PogWi (Myślenice).

*Hydropsyche angustipennis* (CURTIS, 1834), 10♂♂, 4♀♀; R (Janów); PU (Gołogóry, Seret river at Pieniaki); 3♂♂ collected at Pieniaki and 3♂♂ collected at Tuczna in the Gołogóry Mts were incorrectly identified as “*Hydropsyche guttata* PICT.”; 3♀♀ from Pieniaki were wrongly determined “*Hydropsyche fulvipes*”.

*H. botosaneanui* MARINKOVIC-GOSPODNETIC, 1966, 3♂♂, 2♀♀; WC: PogWi (Raba at Myślenice – 2♂♂), EC: Czar (Worochta); all specimens were identified incorrectly: 1♂ from Myślenice and 1? from Worochta as “*Hydropsyche saxonica* det. M.R.”, while 1♂ and 1? from Worochta as “*Hydropsyche pellucidula*”; 1♂ from Myślenice bore two labels: “*Hydropsyche pellucidula* CURT. det M.R.” and “*Hydropsyche saxonica*”.

*H. bulbifera* MCLACHLAN, 1878, 6♂♂, 2♀♀; WC: PogWi; Kraków; E-CF (Prut at Kołomyja); PU (Podhorcze); 1♀ from Kraków was incorrectly identified as “*Hydropsyche guttata* PICT.”; 1♀ from Podhorcze as “*Hydropsyche ornatula* MCLACH. det. M.R.”.

*H. contubernalis* MCLACHLAN, 1865, 1♂, 1♀; E-CF (Prut at Kołomyja); the male was incorrectly identified as “*Hydropsyche bulbifera*”.

*H. fulvipes* (CURTIS, 1834), 1♀; WC: BeWys (Myślenice), incorrectly identified as “*Hydropsyche bulbifera* MC'LACH. det. M.R.”

*H. incognita* PITSCHE, 1993, 16♂♂, 4♀♀; WC: PogWi (Myślenice); EC: Pokucie, Gor (Mikuliczyń); E-CF (Kołomyja); all specimens were incorrectly identified: those from Myślenice (13) as “*Hydropsyche pellucidula* CURT. det. M.R.”, while 2♂♂ from Kołomyja, 1♂ from Mikuliczyń and one with an imprecise place of origin called “Galicia” as “*Hydropsyche fulvipes*”; a female from Mikuliczyń as “*Hydropsyche saxonica* MCLACH. det. M.R.”

*H. instabilis* (CURTIS, 1834), 3♂♂, 2♀♀; WC: Babia Góra, BeWys, EC: Gor, Pokucie.

*H. modesta* NAVAS, 1925, 3♂♂, 2♀♀; PU (Seret at Pieniaki – 3♂♂, Podhorcze – 2♀♀); specimens from Pieniaki were wrongly identified as “*Hydropsyche bulbifera*”, and those from Podhorcze as “*Hydropsyche ornatula* MCLACH. det. M.R.”.

*H. pellucidula* (CURTIS, 1834), 2♂♂, 3♀♀; Kraków (1♂); WC: PogWi; PU (Seret at Pieniaki – 1♀); specimens from Kraków and from Pieniaki were incorrectly identified as “*Hydropsyche fulvipes*”.

*H. saxonica* MCLACHLAN, 1884, 6♂♂; WC: BeWys, EC: Czar, Gor (Mikuliczyń), Pokucie; 1♂ from Mikuliczyń was incorrectly identified as “*Hydropsyche fulvipes*”.

*H. silfvenii* ULMER, 1906, 7♂♂, 2♀♀; EC: Czar (Worochta and vicinity).

### Phryganeidae

*Agrypnia obsoleta* (HAGEN, 1858), 2♂♂, 2♀♀; WC: Tatra Mts (Toporowy Staw); R (Janów).

*A. varia* (FABRICIUS, 1793) 3♂♂, 2♀♀; E-CF; R (Janów).

*Hagenella clathrata* (KOLENATI, 1848), 1♂, 1♀; R (Janów).

*Oligostomis reticulata* (LINNAEUS, 1767), 6♂♂, 1♀; R (Janów); Polesie Małe (Poturzyca).

*Oligotricha striata* (LINNAEUS, 1758), 7♂♂, 5♀♀; EC: Czar (Niesamowite Lake); PU; R (Janów).

*Phryganea bipunctata* RETZIUS, 1783, 5♂♂, 3♀♀; PU; R (Janów); vicinity of Warszawa.

*Ph. grandis* LINNAEUS, 1761, 4♂♂, 2♀♀; R (Janów).

*Trichostegia minor* (CURTIS, 1834), 1♂, 2♀♀; Polesie Małe (Radwańce); PU (Dobrzanica).

### Apataniidae

*Apatania carpathica* SCHMID, 1954, 9♂♂, 1♀; EC: Czar, Gor; all specimens were incorrectly identified as “*Apatania meridiana*”; “1♂ – 15.IX.1910, Czarnohora, Breskul” comes from *locus typicus*.

The following information is placed in original description: “*J'en ai vu 1♂ et 2♀♀, que je désigne comme holotype (♂), allotype (♀) et paratype.*” (SCHMID, 1954: 12). *Ils ont été capturés à Czarnohora et sont actuellement dans ma collection*” (SCHMID, 1954: 12).

*A. fimbriata* (PICTET, 1834), 1♂; WC: Tatra Mts.

### Brachycentridae

*Brachycentrus maculatus* (FOURCROY, 1785), 2♂♂, 1♀; 1♂ and 1♀ were from vicinity of Kołomyja (E-CF); origin of the other male is unknown.

*B. montanus* KŁAPÁLEK, 1891, 4♂♂, 5♀♀; EC: Czar, Gor, Pokucie.

*B. subnubilus* CURTIS, 1834, 5♂♂, 7♀♀; WC: Tatra Mts (1♀); E-CF (Prut at Kołomyja); PU (Gologóry); origin of the female from the Tatra Mts seems to be incorrectly labelled.

*Micrasema minimum* McLACHLAN, 1876, 1♂, 3♀♀; EC: Czar (Worochta); all incorrectly identified as “*Micrasema nigrum*”.

*M. setiferum* (PICTET, 1834), 1♂, 1♀; EC: Czar (Lawoczna); both wrongly identified as “*Micrasema nigrum*”.

### Goeridae

*Goera pilosa* (FABRICIUS, 1775), 8♂♂, 2♀♀; E-CF (Słobódka Leśna).

*Lithax niger* (HAGEN, 1859), 8♂♂, 8♀♀; WC: Tatra Mts, EC: Czar, Gor; all specimens from Tatra Mts (2♂♂, 2♀♀) were wrongly determined as “*Lithax obscurus*”.

*L. obscurus* (HAGEN, 1859), 6♂♂; EC: Czar (Worochta).

*Silo graellsii* E. PICTET, 1865, 1♂; EC: Czar (Huk); incorrectly identified as “*Silo nigricornis*”.

*S. pallipes* (FABRICIUS, 1781), 9♂♂, 3♀♀; KCU (Krzeszowice 1♂); WC: BeWys, EC: Czar, Gor, Pokucie; PU: Gologóry (Prybyń at Swirz – 2♂♂, 1♀); E-CF (Majdan Górnny – 1♂); male from Krzeszowice was wrongly determined “*Silo duplex*”, while specimens from Prybyń and Majdan Górnny were identified as “*Silo nigricornis*”.

*S. piceus* (BRAUER, 1857), 8♂♂, 3♀♀; WC: BeWys, PogWi, EC: Czar, Gor, Pokucie

### Lepidostomatidae

*Crunoecia irrorata* (CURTIS, 1834), 2♂♂, 5♀♀; WC: Babia Góra, BeWys; PU (Dobrzanica in Gologóry); E-CF (Majdan Górnny).

*Lepidostoma basale* (KOLENATI, 1848), 3♂♂, 3♀♀; EC: Czar, Gor, Pokucie. Older synonym: *Lasiocephala* COSTA, 1857; synonymised by MALICKY (2005).

*L. hirtum* (FABRICIUS, 1781), 3♂♂, 3♀♀; WC: PogWi; E-CF.

### Limnephilidae

#### Dicosmoecinae

*Ironoquia dubia* (STEPHENS 1837), 1♀; E-CF (Słobódka Leśna).

#### Drusinae

*Drusus biguttatus* (PICTET, 1834), 1♂; WC: Tatra Mts, incorrectly identified as “*Drusus mixtus*”.

*D. brunneus* KŁAPÁLEK, 1890, 10♂♂, 4♀♀; EC: Czar, Gor; all labelled with a former generic name “*Peltostomis*”.

*D. carpathicus* DZIĘDZIELEWICZ, 1911, 3♂♂, 3♀♀; EC: Czar, Gor (Chomiak); 1♂ and 1♀ collected on slopes of Chomiak Mt, 3.VI.1909 and 11.VI.1909, respectively (No E24.12.06.04/02 and 03), and 1♀ caught 9.VI.1910 in the Czarnohora massif (No E24.12.06.04/01) belong to the series of specimens on base of which DZIĘDZIELEWICZ had described the species; the male from Chomiak is designated as a **lectotype** herein. To that series belong also several specimens stored in NMP (CHVOJKA, pers. comm.).

*D. discolor* (RAMBUR, 1842), 6♂♂, 10♀♀; WC: Tatra Mts, EC: Czar, Gor.

*D. trifidus* McLACHLAN, 1868, 12♂♂; WC: Tatra Mts, EC: Czar, Gor, Pokucie.

*Ecclisopteryx dalecarlica* KOLENATI, 1848, 1♂; Gor (Chomiak), labelled “*Ecclisopteryx Dziędzielewiczi*”, described by KŁAPÁLEK (1906), now the synonym.

*E. madida* (MCLACHLAN, 1867), 4♂♂, 3♀♀; WC: Tatra Mts, EC: Czar.

### Limnephilini

*Anabolia brevipennis* (CURTIS, 1834), 2♂♂, 1♀; PU (Gołogóry); Polesie Małe (Radwańce, Poturzyca).

*A. concentrica* (ZETTERSTEDT, 1840), 4♂♂, 4♀♀; EC: Gor, Pokucie; E-CF (Słobódka Leśna); 2♂♂ were labelled “*Arctoecia dualis* MCLACH. det. M.R.”.

*A. furcata* BRAUER, 1857, 12♂♂, 3♀♀; WC: BeWys, PogWi (Myślenice – 11♂♂, 2♀♀); EC: Gor; all specimens from Myślenice were wrongly identified as “*Anabolia laevis* ZETT. det. M.R.”.

*A. laevis* (ZETTERSTEDT, 1840), 7♂♂, 2♀♀; Lithuania (Czombrów – 2); Polesie Małe; R; PU (Gołogóry); all specimens bore labels with synonymous names, those from Czombrów “*Anabolia sororcula* MCLACH. leg. M. RACIĘCKA”, remaining ones as “*Anabolia soror* MCLACH.”.

*Glyphotaelius pellucidus* (RETZIUS, 1783), 5♂♂, 5♀♀; R; Polesie Małe; PU (valley of river Seret); E-CF.

*Grammotaulius nigropunctatus* (RETZIUS, 1783), 5♂♂, 1♀; Polesie Małe; WC: PogWi; two specimens bore synonymous name “*Grammotaulius atomarius* FABR. det. M.R.”.

*G. Nitidus* (MÜLLER, 1764), 1♂; found in vicinity of Warszawa.

*Limnophilus auricula* CURTIS, 1834, 1♀; WC: PogWi (Myślenice).

*L. binotatus* CURTIS, 1834 (=*xanthodes* MCLACHLAN, 1873), 3♂♂, 3♀♀; R.

*L. borealis* (ZETTERSTEDT, 1840) 1♀; Lithuania, leg. and det. M.R.

*L. coenosus* CURTIS, 1834, 3♂♂, 5♀♀; EC: Czar (most of the specimens were collected at Niemowite Lake); E-CF.

*L. decipiens* (KOLENATI, 1848), 5♂♂, 10♀♀; WC: Tatra Mts; EC: Czar, Gor; PU (Gołogóry).

*L. dispar* MCLACHLAN, 1875, 1♂; R (Janów); 28.V.1905.

*L. extricatus* MCLACHLAN, 1865, 8♂♂, 7♀♀; Polesie Małe; R; WC: PogWi; EC: Czar, Gor, Pokucie.

*L. flavicornis* (FABRICIUS, 1787), 5♂♂, 6♀♀; R; PU (Korzelice); EC: Czar, Gor, Pokucie.

*L. fuscicornis* (RAMBUR, 1842), 5♂♂, 4♀♀; Polesie Małe; R; E-CF (Prut at Kołomyja).

*L. germanus* MCLACHLAN, 1875, 1♀; EC: Gor (Mikuliczyn at Prut river); 30.VII (probably end of 19<sup>th</sup> century or beginning of 20<sup>th</sup> century).

*L. griseus* (LINNAEUS, 1758), 17♂♂, 9♀♀; Polesie Małe; R; WC: Tatra Mts, BeWys, PogWi; EC: Czar, Gor, Pokucie.

*L. hirsutus* (PICTET, 1834), 2♂♂; WC: BeWys, PogWi.

*L. ignavus* MCLACHLAN, 1865, 8♂♂, 4♀♀; R; WC: PogWi; EC: Czar, Gor.

*L. incisus* CURTIS, 1834, 1♂; PU (Firlejów in Gołogóry).

*L. lunatus* CURTIS, 1834, 5♂♂, 8♀♀; R; Polesie Małe; PU (Gołogóry, Złoczów); WC: PogWi.

*L. marmoratus* CURTIS, 1834, 1♂; “leg. M. RACIĘCKA” – 5.IV.1929; Lithuania (Zakret).

*L. nigriceps* (ZETTERSTEDT, 1840) 9♂♂; R (Janów); Polesie Małe (Poturzyca); PU (Korzelice in Gołogóry).

*L. politus* MCLACHLAN, 1865, 3♂♂, 2♀♀; R; E-CF.

*L. rhombicus* (LINNAEUS, 1758), 2♂♂, 6♀♀; vicinity of Warszawa; Polesie Małe; PU; E-CF; EC: Gor.

*L. sparsus* CURTIS, 1834, 14♂♂, 9♀♀; R; Polesie Małe; WC: PogWi; EC: Czar (Worochta).

*L. stigma* CURTIS 1834, 4♂♂, 5♀♀; R; Polesie Małe; E-CF (Słobódka Leśna, Majdan Górnny).

*L. subcentralis* BRAUER, 1857, 3♂♂, 4♀♀; R; Polesie Małe.

*L. vittatus* (FABRICIUS, 1798), 6♂♂, 9♀♀; R; WC: PogWi; EC: Czar.

*Nemotaulius punctatolineatus* (RETZIUS, 1783), 2♂♂, 5♀♀; R; Polesie Małe.

*Radicoleptus alpestris sylvanocarpaticus* BOTOŚANEANU & RIEDEL, 1965 (?), 6♂♂, 4♀♀; R (Janów, Brzuchowice – ♂♂, 3♀♀); E-CF (Majdan Górnny, Młodiatyn); EC: Czar (Worochta – 1♀); taxonomical situation of the taxon is still unclair.

### Chaetopterygini

*Annitella chomiicensis* (DZIEDZIELEWICZ, 1908), 8♂♂, 1♀; EC: Gor (mainly on slope of Chomiak Mt), Czar (only 1♂ on slope of Połonina Koźmieska); 6♂♂ and 1♀ collected by DZIEDZIELEWICZ during 4-23.X.1907 on slope of Chomiak Mt belong to the series of specimens on basis of which DZIEDZIELEWICZ described this species, and match the criteria for paralectotypes according to the ICZN Article 74.1, Recommendation 74.6 (No E24.12.010) 01-07). Several paralectotypes are stored in NMP (CHVOJKA, pers. comm.). The lectotype designated by SZCZĘSNY (1980) is stored in MP ISEZ.

*A. "kosciuszki" KŁAPÁLEK, 1907", 15♂♂, 4♀♀; EC: Czar – Prut valley down from outlet of stream flowing from Połonina Koźmieska to Worochta, also from Prutec stream at Błotek (1♂) near Tatarów (Gor); all specimens listed under this synonymous name were formerly identified as "*Annitella kosciuszki* KŁAPÁLEK, 1907" by M. RACIĘCKA (6♂♂, 1♀) and probably J. DZIEDZIELEWICZ; all specimens are determined as hybrids of *A. chomiicensis/A. lateroproducta* (SZCZĘSNY 1979).*

*A. obscurata* (MCLACHLAN, 1876), 27♂♂, 9♀♀; EC: Czar, Gor, Pokucie; all bore labels with generic name "*Chaetopteryx*".

*Chaetopteryx fusca* BRAUER, 1857, 15♂♂, 3♀♀; WC: BeWys, Beskid Sądecki (Rytno – 1♂), PogWi; male from Rytno was incorrectly identified as "*Chaetopteryx villosa*".

*Ch. polonica* DZIEDZIELEWICZ, 1889, 18♂♂, 9♀♀; WC: BeWys; EC: Czar, Gor (Chomiak); 1♀ from Gorgany Mts was wrongly determined "*Chaetopteryx major*". Although the species was discovered and described by DZIEDZIELEWICZ at Młodiatyn village, at border between East Carpathian Foothills and East Carpathians (the Pokucie-Marmarosch Carpathians), none of specimens deposited in Lviv belongs to the type series which is housed in Kraków.

*Ch. sahlbergi* MCLACHLAN, 1876, 32♂♂, 14♀♀; EC: Czar (mainly in the vicinity of Worochta and Zawojela), Gor (slopes of Chomiak Mt); PU (Gołogóry – "Prybyń ad Swirz"); all specimens (5♂♂ and 1♀) from Gołogóry were incorrectly identified as "*Chaetopteryx villosa*".

*Ch. subradiata* KŁAPÁLEK, 1907, 7♂♂, 10♀♀; EC: Czar, Gor (Chomiak). KŁAPÁLEK described the species on basis of one pair (male, female) of insects collected by DZIEDZIELEWICZ 22 and 23.IX (in original KŁAPÁLEK's description "22. a 23.IX.") on Chomiak Mt at Błotek – this fact took place probably in 1906. It is not known where the specimens could be stored.

In the museum material only two specimens were collected in 1906 on Chomiak Mt - male "23.08.1906 Chomiak, Błotek, leśniczówka" and female "22.IX.1906 Chomiak, Błotek". Just both the specimens could be syntypes of the species and probably KŁAPÁLEK imprecisely wrote the collection date (month) of the male in his paper. Other 3♂♂ and 1♀ (4-23.X.1907) come from *locus typicus* as well as 1 specimen stored in NMP (CHVOJKA, pers. comm.).

*Ch. villosa* (FABRICIUS, 1798), 9♂♂, 5♀♀; Mazovian Lowland (Grabowo at Vistula river); R (Brzuchowice); E-CF (Słobódka Leśna, Młodiatyn).

*Psilopteryx psorosa carpathica* SCHMID, 1952, 17♂♂, 5♀♀; EC: Czar, Gor; E-CF (Młodiatyn). The taxon was originally described as *P. carpathica* (taxonomical status changed by MEY & BOTOŚANEANU) on the basis of one male (holotype) collected (and identified as *P. psorosa*) by DZIEDZIELEWICZ 17.X.1908 on Czarnohora (SCHMID, 1952: 144). The specimen previously sent by DZIEDZIELEWICZ to RIS probably comes from that collection. SCHMID (1952) did not inform

where the holotype is stored. None of the specimens deposited in Lviv museum were caught in 1908, but 10♂♂ and 4♀♀ come from *locus typicus*.

### Stenophylacini

*Acrophylax vernalis* DZIĘDZIELEWICZ, 1912, 12♂♂, 7♀♀; EC: Czar; 4♂♂, 6♀♀ which DZIĘDZIELEWICZ collected during 15-30.V.1911 (on the Czarnohora massif on slopes of Dancerz and Breskul) are paralectotypes according to /01-10), i.e. belong to the series of specimens on basis of which DZIĘDZIELEWICZ described this species. A designated lectotype is stored in MP ISEZ (SZCZĘSNY 1980); besides 8♂♂ (3.VI.1912) and 1♀ (20.V.1909) origin from *locus typicus*.

*A. zerberus* BRAUER, 1867, 4♂♂; WC: Tatra Mts.

*Allogamus auricollis* (PICTET, 1834), 7♂♂, 3♀♀; WC: Tatra Mts, EC: Czar, Gor; all bore labels “*Anomalopteryx auricollis*“.

*A. uncatus* (BRAUER, 1857), 10♂♂, 5♀♀; EC: Czar, Gor; 2♂♂ and 1♀ collected during 2-18.X.1909 were incorrectly identified “*Anomalopteryx chauviniana*”, and 1♂ caught on 14.X.1907 at Barani stream and 1♀ caught on 4.X.1908 on Polonina Koźmieska as “*Anomalopteryx mendax*”.

*Chionophylax czarnohoricus* (DZIĘDZIELEWICZ, 1911), 16♂♂, 1♀; EC: Czar; 3♂♂ collected by Karol HUPPENTHAL 30.V.1909 at the pond on slope of Tomnatyk Mt (“przy jeziorku pod szczytem Tomnatyka”) on Czarnohora massif (1791 m a.s.l.) were the basis for description of the species under generic name *Acrophylax* (DZIĘDZIELEWICZ 1911). In Lviv museum there are stored 2♂♂ collected in 1909: one male “30.V.1909 Czarnohora, Gadżyna, jeziorko” – now designated as **lectotype** (according to the ICZN Articles 73.2 and 74.1, No /01), second male “4-5.VI.1909, Czarnohora, zeb. dr Antoni ŁOMNIICKI”. As to the former specimen, it is highly probable that DZIĘDZIELEWICZ when writing “pond on slope of the Tomnatyk Mt” wanted to point at the pond in Gadżyna valley, and not on the Barbeniescu lake which is situated directly at Tomnatyk Mt. The latter specimen not mentioned in this paper was found by M. RACIĘCKA (1933) in DZIĘDZIELEWICZ’s collection. The remaining ones (14♂♂ – 1911 and 1♀ – 1910) were collected by DZIĘDZIELEWICZ in *locus typicus*. A paralectotype is stored in NMP (CHVOJKA, pers. comm.).

*Halesus digitatus* (SCHRANK, 1781) 3♂♂, 5♀♀; WC: PogWi, EC: Czar, Gor; R; 1♀ caught 23.IX.1906 by stream at Błotek (Gor) was incorrectly identified as “*Halesus tessellatus*”.

*H. rubricollis* (PICTET, 1834), 1♀ (collected in 1892); WC: Tatra Mts; incorrectly identified as “*Anomalopteryx mendax*”.

*H. tessellatus* (RAMBUR, 1842), 5♂♂, 7♀♀; WC: PogWi, EC: Gor, Pokucie; R (Brzuchowice); PU (Gołogóry); E-CF; 1♂ and 3♀♀ from Gołogóry (“Prybyń ad Swirz”) were incorrectly determined as “*Halesus radiatus*”, and 1♂ as “*Micropterna testacea*”, while 1♀ from Brzuchowice was labelled “*Halesus punctatus*”.

*Hydatophylax infumatus* (MCLACHLAN, 1865), 3♂♂, 1♀; EC: Czar (Worochta, Woronienki stream).

*Isogamus aequalis* (KLAPÁLEK, 1907), 11♂♂, 1♀; EC: Czar ( m a.s.l.), Gor (Chomiak); E-CF (Młodiatyn). The species was described under generic name *Anisogamus* on basis of 3♂♂ and 2♀♀ collected by DZIĘDZIELEWICZ 22.IX.1906 at stream on Chomiak slopes at Błotek. In Lviv museum there is only one male stored which was collected in *locus typicus* – “Chomiak, 16.VIII”. The syntype (1♂ – “22.IX.1906, Chomiak, Błotek”) is in MP ISEZ. The syntypes are in MP ISEZ (1> - “22.IX.1906, Chomiak, Błotek”) and also in NMP (CHVOJKA, pers. comm.).

*I. czarnohorensis* (DZIĘDZIELEWICZ, 1912), 7♂♂, 2♀♀; EC: Czar (>1200 m a.s.l.); all the specimens match the criteria for paralectotypes (No 01-09). Several paralectotypes are stored also in NMP (CHVOJKA, pers. Comm.). The taxonomical status of this taxon in original description was *Anisogamus aequalis* Klap. var. *czarnohorensis* which corresponds to the rank of subspecies (SCHMID 1955). DZIĘDZIELEWICZ in the description emphasized the differences in body and wing color and size of wings between parental forms, *aqualis* and *czarnohorensis*. The specific wings color pattern as a main character of *czarnohorensis* is also stressed by RACIĘCKA (1934). Subse-

quent, more careful studies of genital structure of both taxa allowed changing the status of the latter (SZCZĘSNY 1980).

*Melampophylax nepos triangulifera* BOTOŞÁNEANU, 1957, 14♂♂, 5♀♀; EC: Czar (at lower altitudes), Gor; all specimens bore labels “*Anomalopteryx nepos*”.

*Micropterna lateralis* (STEPHENS, 1837), 2♂♂, 2♀♀; EC: Czar (Worochta).

*M. nycterobia* MCLACHLAN, 1875, 3♂♂, 1♀; EC: Czar (Worochta).

*Parachiona picicornis* (PICTET, 1834), 6♂♂, 1♀; WC: BeWys, EC: Czar, Gor; R; E-CF (Słobódka Leśna).

*Potamophylax carpathicus* (DZIEDZIELEWICZ, 1912), 5♂♂, 6♀♀; WC: BeWys, EC (5♂♂, 5♀♀); Czar (Worochta), Gor (Chomiak) – of those collected in EC, 2♂♂ and 3♀♀ are paralectotypes according to the ICZN Article 74.1.4 (No 24.12.23.01/01-05), but 3♂♂ and 2♀♀ origin from *locus typicus*. DZIEDZIELEWICZ did not mention the series of specimens being the basis for species description. He informed only in which localities the species was observed, i.e.: Chomiak Mt at Tatarów, Rebrowacz Mt at Worochta and Czarnohora massif, 12.VI-6.VII. As a matter of fact, he had not recognized correctly the species because all the earlier (until 1908) collected specimens, both *I. czarnohorensis* and *P. carpathicus*, were labelled as “*Stenophylax millenii* Klap. det. Dz.” (those stored in MP ISEZ). The museum specimens stored in Lviv were labelled „*Stenophylax carpathicus* Dz. det. M. R. (Maria RACIĘCKA)” or “*Potamophylax carpathicus* Dz.” – name changed recently.

First specimens (2♀♀) collected by DZIEDZIELEWICZ were incorrectly determined as *Stenophylax millenii* by F. KŁAPALEK (DZIEDZIELEWICZ 1907: 17). Both females are stored; one in Kraków (“1♀ 3.7.1905, Chomiak, Błotek”), one in Lviv (“1♀ 6.7.1905, Chomiak, Błotek”). A remarkable difference in body size of specimens collected in different seasons probably caused DZIEDZIELEWICZ to ask prof. Georg ULMER from Hamburg for an opinion (DZIEDZIELEWICZ 1912: 133). The description of two new taxa, *I. czarnohorensis* and *P. carpathicus*, was the result of this opinion.

*P. cingulatus depilis* SZCZĘSNY, 1994, 5♂♂; WC: BeWys (Myślenice), EC: Czar, Gor; E-CF (Kołomyja); 1♂ collected near Kołomyja bore a label “*rotundipennis*” (without generic name).

*P. latipennis* (CURTIS, 1834), 7♂♂; EC: Czar (Worochta), Gor, Pokucie (Mikuliczyń); some specimens from Mikuliczyń were incorrectly identified as “*St. latipennis* CURT.” (sensu MCL.), now the synonym of *Potamophylax cingulatus* STEPH.

*P. cingulatus depilis* + *P. latipennis*, 15♀♀; WW; EC; specimens difficult to identify.

*P. luctuosus* (PILLER, 1783), 5♂♂, 5♀♀; EC: Gor; E-CF.

*P. nigricornis* (PICTET, 1834), 11♂♂, 5♀♀; WC: PogWi, EC: Czar; R; PU (Gołogórz); E-CF (Nadwórna, Słobódka Leśna).

*Stenophylax meridiorientalis* MALICKY, 1980, 4♂♂, 1♀; WC: BeWys (Uklejna – 1♂), EC: Czar; PU (Gołogórz); E-CF; male collected at Uklejna Mt was incorrectly identified as “*Micropterna testacea*” and the other as “*concentricus*” or „*mucronatus*” (Czarnohora – 1♀). It is suspected that a mistake was made when the male from Uklejna was labelled, therefore presence of this species in Polish fauna must still be confirmed.

*S. permistus* MCLACHLAN, 1895, 1♂, 5♀♀; WC: BeWys; EC: Czar, Gor (Chomiak); PU (Gołogórz); 1♀ collected at Chomiak slopes was incorrectly identified as “*Micropterna lateralis*”; remaining specimens were labelled with the synonymous name “*St. concentricus*”.

### Sericostomatidae

*Notidobia ciliaris* (LINNAEUS, 1761), 9♂♂, 4♀♀; vicinity of Kraków; WC: Tatra Mts, BeWys; R; PU (Gołogórz); E-CF.

*Oecismus monedula* (HAGEN, 1859), 1♀; WC: PogWi.

*Sericostoma personatum* (SPENCE, 1826), 9♂♂, 10♀♀; WC: Tatra Mts, Babia Góra, BeWys, PogWi; EC: Gor; E-CF; PU; some specimens bore labels “*Sericostoma pedemontanum*”.

*S. schneideri* (KOLENATI, 1848), 6♂♂, 4♀♀; EC: Czar (vicinity of Worochta), Gor, Pokucie; all bore labels “*Sericostoma timidum*”.

### Odontoceridae

*Odontocerum albicorne* (SCOPOLI, 1763), 4♂♂, 5♀♀; WC: Tatra Mts, BeWys; EC: Gor, Pokucie; E-CF.

### Molannidae

*Molanna angustata* CURTIS, 1834, 1♂, 1♀; Lithuania (Troki, Wałga).

*Molannodes tinctus* (ZETTERSTEDT, 1840), 1♂, 2♀♀; WC: Tatra Mts (Toporowy Staw, Smreczyński Staw); EC: Gor (vicinity of Mikuliczyn - 1♀); all bore labels “*Molannodes Zelleri*”.

### Beraeidae

*Beraea pullata* (CURTIS, 1834), 4♂♂, 8♀♀; WC: BeWys, EC: Czar, Gor; PU (Gołogóry); E-CF; 1♀ from Gorgany Mts was incorrectly identified as “*Beraea articulalis*”.

*Beraeodes minutus* (LINNAEUS, 1761), 2♂♂, 1♀; EC: Czar (Worochta); PU (Gołogóry).

*Ernades articulalis* (PICTET, 1834), 1♂, 1♀; WC: BeWys (Myślenice - Stróża); EC: Gor, Pokucie; ♂ (from Stróża village) was incorrectly identified as “*Beraea pullata*”.

### Leptoceridae

*Adicella filicornis* (PICTET, 1834), 4♂♂; WC: BeWys.

*A. reducta* (MCLACHLAN, 1865), 1♂, 1♀; EC: Gor (Mikuliczyn); both collected 23.VI.1910; incorrectly determined as “*Triaenodes conspersa*”.

*Athripsodes albifrons* (LINNAEUS, 1758), 8♂♂, 1♀; E-CF; Lithuania (Troki, Bernardyny lake).

*A. aterrimus* (STEPHENS, 1836), 7♂♂; R (Wulka).

*A. bilineatus* (LINNAEUS, 1758), 2♂♂; EC: Gor (Mikuliczyn), Pokucie; both specimens were incorrectly identified “*Leptocerus aterrimus*”.

*A. cinereus* (CURTIS, 1834), 2♂♂; Lithuania (Troki); E-CF (Kołomyja).

*A. commutatus* (ROSTOCK, 1873), 6♂♂, 1♀; WC: PogWi, EC: Gor, Pokucie; Lithuania (Ponory).

*Ceraclea albimacula* (RAMBUR, 1842) (= *alboguttata* (HAGEN, 1860; syn. by MALICKY, 2005), 1♂, 26.VI.1930; Lithuania (river Waka).

*C. nigronervosa* (RETZIUS, 1783), 1♂; caught 12.V.1925; Lithuania (Bieniakonie).

*Mystacides azureus* (LINNAEUS, 1761), 3♂♂, 1♀; WC: Pogórze Wisnickie; E-CF; Lithuania (Bieniakonie).

*M. longicornis* (LINNAEUS, 1758), 2♂♂, 2♀♀; Lithuania (Troki); R; PU.

*M. nigra* (LINNAEUS, 1758), 5♂♂, 1♀; R (Lubaczów); EC: Gor (Mikuliczyn); Lithuania (Troki).

*Oecetis furva* (RAMBUR, 1842), 4♂♂, 8♀♀; R (Wulka); PU (Bucyki); specimen from Bucyki incorrectly identified as “*Oecetis lacustris* Pictet”.

*O. ochracea* (CURTIS, 1825), 2♂♂; Lithuania (Troki); R.

*Setodes punctatus* (FABRICIUS, 1793), 1♂; Lithuania (Wilno).

*S. viridis* (FOURCROY, 1785), 1♂; Lithuania (Wilno).

*Ylodes simulans* (TJEDER, 1929), 1♂; E-CF (Prut at Kołomyja), 2.VII, incorrectly determined “*Triaenodes bicolor*”.

### III. GENERAL REMARKS

Total collection of caddis flies comprises about 1736 specimens, all in dry state, dating back over a hundred years. The oldest date on labels was 1891, but many specimens had no date or a date with only a day and month; this is probably the oldest part of the collection. The most recent date was VIII.1928 – specimens collected and identified by M. RACIĘCKA from Vilnius (now Lithuania).

The primary part of the Lviv collection was a number of caddis flies (38 species identified by F. BRAUER from Vienna) delivered by M. NOWICKI (1865) to the DZIEDZIELEWICZ's Museum (DZIEDZIELEWICZ 1891). NOWICKI collected the specimens in the region then called Galicia, now the western parts of Ukraine: Roztocze (vicinity of Lviv, Janów), Podole Uplands (Pieniaki) and south-eastern parts of Poland: Tatra Mts, Pieniny Mts and the vicinity of Kraków (Krzeszowice). It is assumed that about 50 specimens of 21 species from the original series of caddis flies are still present in the Museum collection.

The vast part of the collection was made up of the large number of caddis flies collected, identified and prepared by J. DZIEDZIELEWICZ. A smaller number of insects were caught by M. RACIĘCKA and single specimens by: Antoni WAGA (determined by K. JELSKI), Antoni ŁOMNICKI, Jarosław ŁOMNICKI, K. HUPPENTHAL, A. STOCKEL and OSTERLOFF. M. RACIĘCKA also identified the individuals collected by herself and by DZIEDZIELEWICZ, and verified DZIEDZIELEWICZ's former identifications (RACIĘCKA, 1933).

During the verification of the materials it promptly appeared that specimens kept dry could be easily damaged so we have decided to move them into alcohol. The verification was finished by the end of 2005.

According to the labels on 1736 specimens in the collection, 184 species/subspecies were determined. However, currently as many as 308 specimens are damaged to such an extent that they are undeterminable. Lack of an abdomen or last abdominal segments with genitals was the most frequent cause for making them unusable for determining the species. In many cases only the wings or legs remain pinned. The damaged specimens represent about 105 taxa. Among the damaged insects there are fragments of 17 specimens belonging to type series of the following taxa described by DZIEDZIELEWICZ: *Annitella chomiacensis* (3 specimens), *Chionophylax czarnohoricus* (2), *Drusus carpathicus* (6), *Isogamus czarnohorensis* (3), *Potamophylax carpathicus* (3).

The number of determinable insects (i.e. not damaged) includes 1429 specimens representing 177 species/subspecies. 174 specimens belonging to 54 species were identified incorrectly or bore labels with incorrect names (Tab. I). Among the specimens there are some important individuals that are cited in literature and documented some taxa included in the list of Polish caddis flies, e.g.: *Rhyacophila aurata* from the Tatra Mts and Krzeszowice village, *Drusus mixtus*, *Halesus mendax* and *Lithax obscurus* from the Tatra Mts, *Pseudagapetus insons* from the Beskid Wysoki Mts (DZIEDZIELEWICZ 1891, 1919, 1920; RACIĘCKA 1933; TOMASZEWSKI 1965).

Further 159 specimens of 32 species were determined (Tab. II). Most of them (28) supplement the Museum list of caddis flies.

More than 79% of specimens stored in the Museum come from the present territory of Ukraine: Czarnohora (24.8%), Gorgany (20.1%), the East Carpathian Foothills (8.8%), Roztocze (13.3%), the Podole Uplands (7.9%) and Polesie Małe (4.1%). About 19.2% are from Poland: Beskid Wyspowy Mts and Pogórze Wiśnickie (14.4%), Tatra Mts and Babia Góra Mt (4.3%) and the vicinity of Kraków (0.5%). A small number come from of Lithuania.

An important part of the collection are the series of specimens of species described by DZIEDZIELEWICZ (*Acrophylax vernalis*, *Annitella chomiacensis*, *Chaetopteryx polonica*, *Chionophylax czarnohoricus*, *Drusus carpathicus*, *Isogamus czarnohorensis* and *Potamophylax carpathicus*), by KŁAPALEK (*Annitella "kościuszki"*, *Chaetopteryx subradiata* and *Isogamus aequalis*) and by SCHMID (*Apatania carpathica* and *Psilopteryx psorosa carpathica*). There were no holotypes of any of these species in the State Museum of Natural History in Lviv, neither in the collection stored by DZIEDZIELEWICZ in MP ISEZ (SZCZĘSNY 1980). Thus it is certain that

DZIEDZIELEWICZ, and probably also KŁAPÁLEK did not designate the type when describing the new species. Basing on materials stored in Kraków, the lectotypes for the following five species have been chosen (SZCZĘSNY 1980): *Acrophylax vernalis* DZ. ♀, *Annitella chomiacensis* (DZ.) ♂, *Chaetopteryx polonica* DZ. ♂, *Isogamus czarnohorensis* (DZ.) ♂, *Potamophylax carpathicus* (DZ.) ♂.

Basing on the materials stored in Lviv, lectotypes for two other species are designated herein: *Chionophylax czarnohoricus* (DZ.) ♂ and *Drusus carpathicus* DZ. ♂.

In the Lviv museum there are 119 specimens representing seven species described by DZIEDZIELEWICZ (including 21 specimens with damaged last abdominal segments). Among 98 in good condition there are syntypes, lectotypes and paralectotypes of 6 species (38 specimens) and 33 specimens of five species with the status *locus typicus*. None of the numerous specimens of *Chaetopteryx polonica* belongs to the type series.

48 specimens represent three 3 taxa described by KŁAPÁLEK; syntypes of 2 taxa and 6 specimens of 2 species origin from *locus typicus*. There are also 31 specimens of 2 species described by SCHMID of which paratype of *Apatania carpathica* and 14 specimens of *P. psorosa carpathica* origin from *locus typicus*. In the museum no specimen of *Annitella "dziedzielewiczi* SCHMID 1952 was found.

**Acknowledgments.** The authors thank Hope BENNETT for revising the English style of the paper.

This study was carried out due to a program of cooperation between the Polish Academy of Sciences (PAS) and the National Academy of Sciences of Ukraine and partially supported by a Grant Agency of the Academy of Sciences of the Czech Republic No. QS500070505. The research stay of the second author in the Institute of Nature Conservation PAS was also supported by the Fellowship Program of the Kasa J. Mianowski (Warszawa, Poland).

Table I

Incorrectly identified caddis flies (Trichoptera) in the collections of the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv

Identification on labels	Number of specimens				Correct identification
	♂♂	♀♀	♂♂	♀♀	
1	2	3	4	5	6
<i>articularis</i> (PICT.), <i>Ernodes</i>		2			<i>Ernodes articularis</i> (PICT.) <i>Beraea pullata</i> (CURTIS)
<i>aterrimus</i> STEPH., <i>Leptocerus</i>	9				<i>Athripsodes aterrimus</i> (STEPH.) <i>A. bilineatus</i> (L.)
<i>aurata</i> BRAU., <i>Rhyacophila</i>	3	1	3		<i>Rhyacophila vulgaris</i> PICT. <i>Rh. nubila</i> ZETT.
<i>bicolor</i> (CURT.), <i>Triaenodes</i>	1		1		<i>Ylodes simulans</i> (TJEDER)
<i>boltoni</i> CURT., <i>Glossosoma</i>	5	2	4	2	<i>Glossosoma boltoni</i> CURT. <i>G. conformis</i> NEBOISS
<i>bulbifera</i> MCL., <i>Hydropsyche</i>	10	1	6	1	<i>Hydropsyche bulbifera</i> MCL. <i>H. contubernalis</i> MCL. <i>H. fulvipes</i> (CURT.) <i>H. modesta</i> NAVAS
<i>chauviniana</i> STEIN, <i>Anomalopteryx</i>	2	1	2	1	<i>Allogamus uncatus</i> (BRAUER)
<i>concentricus</i> ZETT. (sensu MCL.), <i>Stenophylax</i>	4	5	1	4	<i>Stenophylax permistus</i> MCL.
			3	1	<i>S. meridiorientalis</i> MALICKY
<i>conspersa</i> (RAMBUR), <i>Triaenodes</i>	1	1	1	1	<i>Adicella reducta</i> (MCL.)
<i>delicatulus</i> MCL., <i>Agapetus</i>	1	2		1	<i>Agapetus delicatulus</i> MCL. <i>A. ochripes</i> CURT.

Identification on labels	Number of specimens				Correct identification
	♂♂	♀♀	♂♂	♀♀	
<i>digitatus</i> (SCHRANK), <i>Halesus</i>	3	5	3	4	<i>Halesus digitatus</i> (SCHRANK) <i>H. tesselatus</i> (RAMBUR)
<i>duplex</i> HAG., <i>Silo</i>	1		1		<i>Silo pallipes</i> (FABR.)
<i>dzięzielewiczi</i> KŁAP., <i>Ecclisopteryx</i>	1		1		<i>Ecclisopteryx dalecarlica</i> KOL.
<i>femoralis</i> EATON, <i>Hydroptila</i>	1	2	1	2	<i>Hydroptila brissaga</i> MALICKY (?) <i>H. tineoides</i> DALMAN
<i>fulvipes</i> (CURT.), <i>Hydropsyche</i>	6	4	4	3	<i>Hydropsyche incognita</i> PITSCHE <i>H. angustipennis</i> (CURT.) <i>H. pellucidula</i> (CURT.) <i>H. saxonica</i> MCL.
<i>fuscipes</i> CURT., <i>Agapetus fuscipes</i>		1		1	<i>Glossosoma conformis</i> NEBOISS
<i>guttata</i> PICT., <i>Hydropsyche</i>	6	2	6	2	<i>H. angustipennis</i> (CURT.)
<i>insons</i> MCL. <i>Pseudagapetus</i>	2	2	2	2	<i>Synagapetus iridipennis</i> MCL.
<i>interpunctatus</i> (ZETT.), <i>Halesus</i>		1		1	<i>Halesus tesselatus</i> (RAMBUR)
<i>lacustris</i> PICT., <i>Oecetis</i>	1		1		<i>Oecetis furva</i> (RAMBUR)
<i>laevis</i> (ZETT.), <i>Anabolia</i>	11	2	11	2	<i>Anabolia furcata</i> BRAUER
<i>laniger</i> PICT., <i>Agapetus</i>	3	1	1	1	<i>A. laniger</i> PICT. [= <i>pactus</i> MCL.] <i>A. delicatulus</i> MCL.
<i>lateralis</i> (STEPH.), <i>Micropterna</i>	2	3	2	2	<i>Micropterna lateralalis</i> (STEPH.)
<i>latipennis</i> CURT. (sensu MCL.), <i>Stenophylax</i>	7		3		<i>Potamophylax latipennis</i> (CURT.), (nec MCL.)
			4		<i>P. cingulatus depilis</i> SZCZĘSNY
<i>ludificatus</i> MCL., <i>Philopotamus</i>	10	1	9	1	<i>Philopotamus ludificatus</i> MCL. <i>Hydropsyche saxonica</i> MCL.
<i>major</i> MCL., <i>Chaetopteryx</i>		1		1	<i>Chaetopteryx polonica</i> DZIĘDZ.
<i>mendax</i> MCL., <i>Anomalopteryx</i>	1	2	1	1	<i>Allogamus uncatus</i> (BRAUER)
				1	<i>Halesus rubricollis</i> (PICT.)
<i>meridiana</i> MCL., <i>Apatania</i>	9		9		<i>Apatania carpathica</i> SCHMID
<i>mixtus</i> (PICT.), <i>Drusus</i>	1		1		<i>Drusus biguttatus</i> (PICT.)
<i>mocsaryi</i> KŁAP., <i>Rhyacophila</i>	9	4	8	3	<i>Rh. mocsaryi</i> KŁAP
			1	1	<i>Rh. fasciata</i> HAG.
<i>multiguttatus</i> CURT. <i>Polycentropus</i>	3		2		<i>Polycentropus irroratus</i> CURT.
			1		<i>P. flavomaculatus</i> (PICT.)
<i>multipunctata</i> CURT., <i>Agraylea</i>	2		1		<i>Agraylea multipunctata</i> CURT.
			1		<i>A. sexmaculata</i> CURT.
<i>nigricornis</i> (PICT.), <i>Silo</i>	4	1	3	1	<i>Silo pallipes</i> (FABR.)
			1		<i>S. graelssii</i> E. PICT.
<i>nigrum</i> BRAUER, <i>Micrasema</i>	2	4	1	3	<i>Micrasema minimum</i> MCL.
			1	1	<i>M. setiferum</i> (PICT.)
<i>obscurus</i> (HAG.), <i>Lithax</i>	4	1	2	1	<i>Lithax niger</i> (HAG.)
			2		<i>L. obscurus</i> (HAG.)
<i>ornatula</i> MCL., <i>Hydropsyche</i>		3		2	<i>Hydropsyche modesta</i> NAVAS
				1	<i>H. bulbifera</i> MCL.
<i>pedemontanum</i> MCL., <i>Sericostoma</i>	3	1	3	1	<i>Sericostomapersonatum</i> (SPENCE)
<i>pellucidula</i> (CURT.), <i>Hydropsyche</i>	13	6	1	2	<i>H. pellucidula</i> (CURT.)
			11	3	<i>H. incognita</i> PITSCHE
			1	1	<i>H. botosaneanui</i> MAR.-GOSPODN.
<i>picicornis</i> STEPH., <i>Holocentropus</i>		1		1	<i>Holocentropus dubius</i> (RAMBUR)
<i>pullata</i> (CURT.), <i>Beraea</i>	15	7	14	7	<i>Beraeapullata</i> (CURT.)
			1		<i>Ernodesarticularis</i> (PICT.)
<i>radiatus</i> (CURT.), <i>Halesus</i>	1	2	1	2	<i>Halesustesselatus</i> (RAMBUR)

Identification on labels	Number of specimens				Correct identification
	♂♂	♀♀	♂♂	♀♀	
<i>rotundipennis</i>	1		1		
	23	12	21	11	<i>Chaetopteryx sahlbergi</i> MCL. <i>Annitella obscurata</i> (MCL.) <i>Psilopteryx psorosa carpathica</i> SCHMID
			1	1	
			1		
<i>saxonica</i> MCL., <i>Hydropsyche</i>	4	2	4	1	<i>H. saxonica</i> MCL. <i>H. botosaneamui</i> MAR.-GOSP. <i>H. incognita</i> PITSCHE
			1	1	
<i>fasciata</i> HAG., <i>Rhyacophila</i>	28	4	27	4	<i>Rhyacophila fasciata</i> HAG. <i>Rh. philopotamooides</i> MCL.
			1		
			2		
<i>tenellus</i> (RAMBUR), <i>Ecnomus</i>	5	1	3	1	<i>Ecnomus tenellus</i> (RAMBUR) <i>Cyrnus crenaticornis</i> (KOL.)
			2		
<i>digitatus</i> (SCHRANK), <i>Halesus</i>		1		1	<i>Halesus tesselatus</i> (RAMBUR)
<i>testacea</i> (GMEL.), <i>Micropterna</i>	2		1		<i>Halesus tesselatus</i> (RAMBUR) <i>Stenophylax</i>
			1		
<i>timidum</i> HAG., <i>Sericostoma</i>	6	4	6	4	<i>Sericostoma schneideri</i> (KOL.)
<i>triangulifera</i> MCL., <i>Wormaldia</i>	6		6		<i>Wormaldia occipitalis</i> (PICT.)
<i>trifidus</i> MCL., <i>Drusus</i>	13		12		<i>Drusus trifidus</i> MCL. <i>Drusus brunneus</i> KŁAPÁLEK
			1		
<i>villosa</i> (FABR.), <i>Chaetopteryx</i>	14	4	8	3	<i>Chaetopteryx villosa</i> (FABR.)
			5	1	<i>Ch. sahlbergi</i> MCL.
			1		<i>Ch. fusca</i> BRAUER
<i>vulgaris</i> PICT., <i>Rhyacophila</i>	4	2	3	2	<i>Rhyacophila vulgaris</i> PICT. <i>Rh. polonica</i> MCL.
			1	2	

Table II

List of unidentified caddis flies (*Trichoptera*) stored in the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv – former DZIEDUSZYCKI's Museum. (Taxa with asterisk \* – not listed earlier).

<i>Acrophylax zerberus</i> *	<i>Limnephilus extricatus</i> *
<i>Agyrpnia obsoleta</i> *	<i>Limnephilus fuscicornis</i> *
<i>Agyrpnia varia</i> *	<i>Limnephilus germanus</i> *
<i>Anabolia brevipennis</i> *	<i>Limnephilus griseus</i> *
<i>Anabolia concentrica</i> *	<i>Limnephilus ignavus</i> *
<i>Anabolia furcata</i>	<i>Limnephilus incisus</i> *
<i>Anabolia laevis</i> *	<i>Limnephilus lunatus</i> *
<i>Chaetopteryx sahlbergi</i>	<i>Limnephilus nigriceps</i> *
<i>Chaetopteryx villosa</i>	<i>Limnephilus politus</i> *
<i>Grammotaulius nigropunctatus</i> *	<i>Limnephilus sparsus</i> *
<i>Hagenella clathrata</i> *	<i>Limnephilus vittatus</i> *
<i>Holostomis phalaenoides</i> *	<i>Oligostomis reticulata</i> *
<i>Hydatophylax infumatus</i> *	<i>Oligotricha striata</i> *
<i>Hydropsyche contubernalis</i>	<i>Phryganea bipunctata</i> *
<i>Isogamus aequalis</i> *	<i>Phryganea grandis</i> *
<i>Limnephilus dispar</i> *	<i>Trichostegia minor</i> *

## REFERENCES

- DZIĘDZIELEWICZ J. 1891. Przegląd fauny krajowej owadów siatkoskrzydłych (*Neuroptera, Pseudoneuroptera*) [*Neuroptera and Pseudoneuroptera check list of Polish country*]. *Sprawozdania Komisji Fizjograficznej Akademii Umiejętności w Krakowie*, **26**: 26-151.
- DZIĘDZIELEWICZ J. 1907. Sieciarki (*Neuroptera genuina*) i Prasiatnice (*Archiptera*) zebrane w ciągu lat 1904 i 1905. *Sprawozdania Komisji Fizjograficznej Akademii Umiejętności w Krakowie*, **42**: 13-26.
- DZIĘDZIELEWICZ J. 1911. Nowe gatunki owadów chróścikowatych, zebrane we schodnich Karpatach. (*Novae species Trichopterorum in Montibus Carpaticis orientalibus collectae*). *Sprawozdania Komisji Fizjograficznej Akademii Umiejętności w Krakowie*, **45**: 45-47.
- DZIĘDZIELEWICZ J. 1912. Nowe gatunki owadów chróścikowatych (*Trichoptera*), zebrane we wschodnich Karpatach w ciągu lata 1911. (*Novae species Trichopterorum in Montibus Carpaticis Orientalibus anno 1911 collectae*). *Sprawozdania Komisji Fizjograficznej Akademii Umiejętności w Krakowie*, **46**: 132-139.
- DZIĘDZIELEWICZ J. 1919. Owady siatkoskrzydłowe ziem Polski (*Insecta neuropteroidea Poloniae terrarum*). *Rozprawy i Wiadomości Muzeum Dzieduszyckich*, **3**(1917), **3-4**: 105-168. (In Polish).
- DZIĘDZIELEWICZ J. 1920. Owady siatkoskrzydłowe ziem Polski (*Insecta neuropteroidea Poloniae terrarum*). *Rozprawy i Wiadomości Muzeum Dzieduszyckich*, **4** (1918), **1-4**: 1-72. (In Polish).
- HERENCHUK K. I., KOINOV M. M., TSYS' P. M. 1964. Pryrodno-geografichnyi podil L'viv'skogo ta Podill'skogo ekonomiczhnykh raioniv. [Natural and geographical division of L'viv and Podillia economical region]. L'viv, L'viv University Press. 221 pp. (In Ukrainian).
- KLAPÁLEK F. 1906. *Ecclisopteryx dziedzielewiczi* n. sp. *Časopis České Společnosti Entomologické* (Praha), **3**: 1-4. (In Czech).
- KLAPÁLEK F. 1907. Přispěvek k znalosti zvířeny chrostíků a jepic Vých. Karpat. (Additamentum ad Trichopterorum ac Ephemeridorum in Karpathibus faunae cognitionem). *Časopis České Společnosti Entomologické*, **4**: 24-31.
- KONDRACKI J. 2000. Geografia regionalna Polski. Polskie Wydawnictwo Naukowe, Warszawa, 440 pp.
- MALICKY H. 2005. Ein kommentiertes Verzeichnis der Köcherfliegen (Trichoptera) Europas und des Mittelmeerbietes. *Linzer biologische Beiträge* **37**(1): 533-596.
- MEY W., BOTOŠÁNEANU L. 1985. Glazial-refugiale Subspeziation von *Psilopteryx psorosa* s.l. (KOLENATI, 1860) in den Karpaten und angrenzenden Mittelgebirgen Zentraleuropas (Trichoptera, Limnephilidae). Deutsches entomologische Zeitschrift N.F. **32**: 109-127.
- NOWICKI M. 1865. *Insecta Haliciae Musei Dzieduszyckiani*. Cracovia. 1-87.
- RACIĘCKA M. 1933. Przyczynek do znajomości Chróścików (*Trichoptera*) ziem Polski. Beitrag zur Kenntnis der Trichopterenfauna von Polen. *Polskie Pismo Entomologiczne*, XII, **1-4**: 17-27.
- RACIĘCKA M. 1934. Neue Diagnosen der von J. Dziedzielewicz beschriebenen Trichopterenformen. *Konowia* (Wien), **13**(4): 231-245.
- SCHMID F. 1952. Le groupe de *Chaetopteryx* (Limnophilidae, Trichoptera). *Revue Suisse de Zoologie, Musée Zool. de Lausanne*, **59**(3): 99-171.
- SCHMID F. 1954. Contribution à l'étude de la sous-famille des Apataninae (Trichoptera, Limnophilidae). II. *Tijdschrift voor Entomologie* **97**(1/2): 1-74.
- SCHMID F. 1955. Contribution à l'étude des Limnophilidae (Trichoptera). Mitteilungen der Schweizerischen Entomologischen Gesellschaft, Lausanne, **28** (Beiheft): 1-245 pp.
- SZCZĘSNY B. 1979. On the Taxons of the Genus *Anniella* Klapálek, 1907 (Trichoptera, Chaetopterygini) of the *chomiicensis-lateropunctata* Group. *Bulletin de l'Académie Polonaise des Sciences*, Cl.II, **27**(4): 251-261.
- SZCZĘSNY B. 1980. Caddis-flies (Trichoptera) in the collection of the Institute of Systematic and Experimental Zoology, Polish Academy of Sciences in Cracov. *Acta zoologica cracoviensis*, **24**(10): 449-486.
- TOMASZEWSKI C. 1965. Chruściiki Trichoptera. Państwowe Wydawnictwo Naukowe, Warszawa. *Catalogus faunae Poloniae*, **28**: 1-104. (In Polish).