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**NEW DATA ON CADDIS FLIES (INSECTA: TRICHOPTERA) OF THE
UKRAINIAN CARPATHIANS AND ADJOINING TERRITORIES**

Щенсьни Б., Хвойка П. Нові відомості про волохокрильців (Insecta: Trichoptera) Українських Карпат і прилеглих територій // Наук. зап. Держ. природознавч. музею. – Львів 2008. – 24. – С. 153-166.

На матеріалах 6745 дорослих особин, котрі були зібрані авторами в Українських Карпатах в 1994-2007 рр. з використанням різних методів (переважно світловими пастками та вручну), визначено 125 видів/підвидів, з яких 18 видів вказано вперше для території України і 2 – для Українських Карпат. Наведено уточнені визначення дорослих особин волохокрильців, зібраних в Українських Карпатах та Львівській області наприкінці 19 – початку 20 ст., котрі зберігаються в Національному музеї Праги.

Щенсны Б., Хвойка П. Новые сведения о ручейниках Украинских Карпат и прилегающих территорий // Науч. зап. Гос. природоведч. музея. – Львов, 2008. – Вып. 24. – С. 153-166.

На материалах 6745 взрослых особей, которые были собраны авторами в Украинских Карпатах в 1994-2007 гг. с использованием разных методов (преимущественно световых ловушек и вручную), определены 125 видов/подвидов, из которых 18 видов указаны впервые для территории Украины и 2 – для Украинских Карпат. Представлены уточненные определения взрослых особей ручейников, собранных в Украинских Карпатах и Львовской области в конце 19 – начале 20 века, и хранящихся в Национальном музее Праги.

Szczęsny B., Chvojka P. New data on caddis flies (Insecta: Trichoptera) of the Ukrainian Carpathians and adjoining territories // Proc. of the State Nat. Hist. Museum. – Lviv, 2008. – 24. – P. 153-166.

A total of 125 species/subspecies of caddis flies was identified in 6,745 adults collected by different methods (mainly with light traps and hand net) by the authors in the Ukrainian Carpathians in years 1994-2007. As much as 18 species are recorded for the first time for Ukraine and two from the Ukrainian Carpathians. Verified identifications of adult caddis flies collected in the Ukrainian Carpathians and the Lviv region in the end of 19th and the beginning of 20th centuries deposited in the National Museum, Praha are presented.

The most intensive researches on the caddis fly fauna in the Eastern Carpathians and adjacent area (in the present state borders of Ukraine) were carried out in second half of the 19th century and in first decade of the 20th century by Józef Dziędzielewicz, excellent specialist of the group, and his colleagues: M. Nowicki and M. Łomnicki from Lviv, A. Wierzejski from Kraków and F. Klapálek from Praha [3, 4]. After World War I nobody collected the Trichoptera in those regions and in years after World War II all the facts concerning that caddis fly fauna were based only on the materials collected by Dziędzielewicz and were published by non Ukrainian authors [1, 7, 9-11, 12, 13]. The first paper of Ukrainian authors based on original materials of caddis flies (aquatic stages only), as a component of benthic invertebrates of the Upper Tysa River and its tributaries, was published by V.S. Ivlev and V.M. Ivasik [5]. The paper of N.N. Danko [2] was based on adults.

After political changes in 1991 also collections of caddis flies housed in the State Museum of Natural History, National Academy of Sciences of Ukraine in Lviv (formerly known as Dzieduszycki's Museum) became available for foreign scientists and international cooperation could start. Thanks to initiative of the director of the Museum – prof. J.N. Czarnobaj (Tscharnobaj), some projects between scientific units of Lviv and Kraków were arranged and subsequently common expeditions of Polish and Ukrainian scientists were organized since 1994 to the west territory of Ukraine. Numerous collections of insects (caddis flies including) were gathered during those expeditions. The most caddis fly materials (adults only) are elaborated, but very few data have been published till now. The main aim of this paper is to publish new data because of compilation of the catalogue of caddis flies of Ukraine which is in the final stage.

Materials, methods, study area

The materials comprise 6,745 adults collected by the authors in the East Carpathians on territory of Ukraine in years 1994-2007.

The insects were caught with a hand net or by picking up with tweezers, also with light traps (B. Szczęsny) of two types of tubes actinic and UV.

The senior author of this publication has taken part in 15 expedition organized in years 1994-2007 to the East Carpathians as follows: 6-15.VI.1994 the Svydivets' Mts., Kuzii Nature Reserve; 10-17.VII.1995 Upper Prut river, the Czarnohora Massif, Krainia at the Svydivets' Mts.; 5-10.X.1995 the Czarnohora Massif, the Svydivets' Mts.; 17-24.VI.1996 Upper Prut river, the Svydivets' Mts., the Synevyr lake; 8-14.X.1996 the Czarnohora Massif; 12-16.VII.1998, Limnytsia river, the Gorgany Mts.; 15-20.X.2001, Limnytsia river and Bystrytsia Nadvirnians'ka river in the Gorgany Mts., Skolivskiy National Park, the East Bieszczady Mts.; 10-13.VII.2003, 18-21.VI.2004 and 26-28.X.2004, Nature Reserve "Gorgany"; 10-12.VII.2005, Hutsul'schyna National Nature Park: Rybnytsia river, Cheremosh river, Upper Prut river; 27-29.X.2005, Upper Prut, Nature Reserve "Gorgany", 23-27.VI.2006 and 23-21.X.2006 Cheremosh river, Chornyi Cheremosh river, the Polonyna Skupova Mt.; 22-25.VI.2007 Cheremosh river, Chornyi Cheremosh river. All the gathered specimens (6,552 adults) are in the author's collection.

The junior author has collected the insects during the expedition organized in June 1996 to the Zakarpats'ka District in drainage area of Upper Tysa river (the Vulcanian Carpathians Region, the Gorgany Mts., the Northern Maramuresh Hollow [*Marmarosh*]) and to the Czarnohora Massif. All the specimens (193 adults) are deposited in the National Museum in Praha (NMP). The junior author verified also identifications of all caddis fly specimens from the Klapálek's collection deposited in the NMP originating with the Ukrainian Carpathians and the Lviv region (Table 1).

The visited mountain ranges: the East Bieszczady Mts., the Gorgany Mts., the Czarnohora Massif, the Polonyny Hryniavs'ki Mts. [*Hryniava*] (Polonyna Skupova) and the Svydivets' Mts. are drained by the following rivers and its tributaries: Dniestr (Opir, Limnytsia, Bystrytsia Nadvirnians'ka with Dzhurdzhi and Zelenytsia), Prut (Zhnets', Rybnytsia, Cheremosh with Chornyi Cheremosh) and Tysa (Shopurka, Svyynyi Potok, Tereblia, Rika).

Table 1

**Ukrainian Trichoptera from the Klapálek's collection (NMP) collected by
Dziędziewicz, Klapálek, Lokay and Stoeckel**

Species	Specimens	Verbatim locality label data/*	Original identification label
1	2	3	4
<i>Rhyacophila flava</i> Klap.	20 ♂♂ 1 ♀	Porzyszevska, 9.IX.[19]08	<i>R. furcata</i>
<i>Rhyacophila laevis</i> Pict.	1 ♂	Chomiak (Błotek), 10.7.1905 Dz.[Dziędziewicz leg.]	<i>R. laevis</i>
<i>Rhyacophila mocsaryi</i> Klap.	1 ♂	Tatarów (Magórczyk), 29.6.1905 Dz.[Dziędziewicz leg.]	<i>R. mocsaryi</i>
<i>Rhyacophila philopotamoides</i> McL.	2 ♂♂	Porzyszevska, 9.IX.[19]08	<i>R. philopotamoides</i>
	1 ♂	Pod Turkul, 10.IX.[19]08	<i>R. philopotamoides</i>
<i>Rhyacophila tristis</i> Pict.	1 ♂ 1 ♀	Porzyszevska, 9.IX.[19]08	<i>R. tristis</i>
<i>Glossosoma intermedium</i> (Klap.)	2 ♂♂ 1 ♀	Chomiak, Błotek, 26.V.1909	<i>Mystrophora intermedia</i>
<i>Agapetus delicatulus</i> McL.	1 ♂	Mikuliczyn, 8.VIII.1904	<i>A. laniger</i>
<i>Synagapetus armatus</i> (McL.)	2 ♂♂ 1 ♀	Chomiak, 5.IX.[19]08	<i>Pseudagapetus armatus</i>
<i>Oxyethira flavicornis</i> (Pict.)	1 ♂	Lwów, A. Stoeckel [leg.]	<i>O. falcata</i>
<i>Wormaldia occipitalis</i> (Pict.)	1 ♂	Worochta, 8.IX.[19]08	<i>W. triangulifera</i>
	1 ♂	Worochtënský, 7.IX.[19]08	<i>W. triangulifera</i>
<i>Hydropsyche botosaneanui</i> Marink.	1 ♂	Worochta, Dr. Lokay [leg.] VI.[1]911	<i>H. saxonica</i>
<i>Hydropsyche saxonica</i> McL.	1 ♂	Worochta, Dr. Lokay [leg.] VI.[1]911	<i>H. saxonica</i>
<i>Hydropsyche silfvenii</i> Ulm.	1 ♂	30.6.1907, Worochta	<i>H. nevae</i> Kol.?
	1 ♂	Worochta, Okolice, 19.7.1907	<i>H. nevae</i> Kol.?
<i>Plectrocnemia conspersa</i> (Curt.)	1 ♂	Worochta, Stoeckel [leg.]	<i>P. conspersa</i>
	1 ♂	Worochta (Rebrowacz), zb. A. Stoeckel [leg.]	<i>P. conspersa</i>
<i>Agrypnia pagetana</i> Curt.	1 ♂	1 ♂, Lwów, A. Stoeckel [leg.]	<i>A. pagetana</i>
<i>Brachycentrus montanus</i> Klap.	1 ♂	Worochta, Dr. Lokay [leg.] VI.[1]911	<i>Oligoplectrum maculatum</i>
<i>Apatania carpathica</i> Schm.	1 ♂	Chomiak, (Błotek), 7.7.1905 Dz. [Dziędziewicz leg.]	<i>A. meridiana</i>
	1 ♀	Chomiak, (pot. podziemny), 20.7.1905 Dz. [Dziędziewicz leg.]	<i>A. meridiana</i> / <i>A.</i> <i>carpathica</i> det. Sýkora
	2 ♂	Chomiak, (pot. podziemny), 23.7.1905 Dz. [Dziędziewicz leg.]	<i>A. meridiana</i>
	1 ♂ 2 ♀♀	Chomiak, 5.IX.[19]08	<i>A. meridiana</i>
	3 ♂♂ 1 ♀	Porzyszevska, 9.IX.[19]08 [TL]	<i>A. meridiana</i>
	5 ♂♂	Pod Turkul, 10.IX.[19]08 [TL]	<i>A. meridiana</i>
1 ♂	Pod Breskul, 11.IX.[19]08 [TL]	<i>A. meridiana</i>	
<i>Drusus brunneus</i> Klap.	1 ♂	Chomiak, pot. Barani, 3.7.1905 Dz. [Dziędziewicz leg.]	<i>D. brunneus</i>
	1 ♂	Chomiak, pot. Barani, 8.7.1905 Dz. [Dziędziewicz leg.]	<i>D. brunneus</i>

1	2	3	4
	1 ♂ 1 ♀	Tatarów, (Błotek), 10.7.1905 Dz. [Dziędziewicz leg.]	D. brunneus
<i>Drusus carpathicus</i> Dziedz.	1 ♂ (PL) 1 ♀ (PL) 1 ♂ 1 ♀ (PL) 2 ♀♀ (PL)	Chomiak, Szczyt, źródła pod Rosk., 27.V.1909 Chomiak, Szczyt, źródła, 31.V.1909 Chomiak, Szczyt, źródła pod Roskól., 3.VI.1909 Chomiak, źródła pod, szczytem, 11.VI.1909	D. carpathicus D. carpathicus D. carpathicus D. carpathicus
<i>Drusus trifidus</i> (McL.)	5 ♂♂	Forešťanka, 12.IX.[19]08	D. trifidus
<i>Ecclisopteryx dalecarlica</i> Kol.	1 ♂ 1 ♂ 1 ♂ 2 ♂♂ 1 ♂	Mikuliczyn, 1903, 4.7. Chomiak, (Błotek), 8.7.1905 Dz. [Dziędziewicz leg.] Tatarów, (Błotek), 18.7.1905 Dz. [Dziędziewicz leg.] Worochta, Dr. Lokay [leg.] VI.[1]911 Worochta, A. Stoeckel [leg.]	E. dziedziewiczi (ST) E. dziedziewiczi (ST) / E. guttulata dalecarlica Kol. det. Sýkora E. dziedziewiczi (ST) E. dziedziewiczi E. dziedziewiczi
<i>Glyptotaelius pellucidus</i> (Retz.)	1 ♂	A. Stoeckel [leg.], Lwów	G. pellucidus
<i>Grammotaulius nigropunctatus</i> (Retz.)	1 ♂ 4 ♂♂	Worochta, A. Stoeckel [leg.] Lwów, A. Stoeckel [leg.]	G. atomarius G. atomarius
<i>Limnephilus affinis</i> Curt.	1 ♂	Pod Turkul, 10.IX.[19]08	L. affinis
<i>Limnephilus auricula</i> Curt.	3 ♂♂ 2 ♀♀	Lwów, A. Stoeckel [leg.]	L. auricula
<i>Limnephilus binotatus</i> Curt.	1 ♀	Lwów, A. Stoeckel [leg.]	L. xanthodes
<i>Limnephilus bipunctatus</i> Curt.	1 ♀	Lwów, A. Stoeckel [leg.]	L. bipunctatus
<i>Limnephilus extricatus</i> McL.	1 ♀ 2 ♂♂	Worochta, 8.IX.[19]08 Worochta, Dr. Lokay [leg.] VI.[1]911	L. extricatus L. extricatus
<i>Limnephilus griseus</i> (L.)	1 ♂ 1 ♀ 1 ♀ 1 ♂ 2 ♀	Chomiak, 5.IX.[19]08 Chomiak, 5.IX.[19]08 Worochta, A. Stoeckel [leg.] Lwów, A. Stoeckel [leg.]	L. auricula L. griseus L. griseus L. griseus
<i>Limnephilus stigma</i> Curt.	1 ♂	Lwów, A. Stoeckel [leg.]	L. stigma
<i>Rhadicoleptus alpestris sylvanocarpaticus</i> Bts. & Riedel	1 ♂	Worochta, Dr. Lokay [leg.] VI.[1]911	Stenophylax alpestris
<i>Annitella chomiacensis</i> (Dziedz.)	1 ♂ (PL) 1 ♂ (PL) 1 ♀ (PL)	Chomiak, Błotek, 15.10.1907 Chomiak, Błotek, 14.10.1907 Chomiak, Błotek, młyn, 16.10.1907	Heliconis chomiacensis Heliconis chomiacensis Heliconis chomiacensis
<i>Annitella chomiacensis x lateropunctata</i>	1 ♂ 1 ♂ 1 ♂ 1 ♀ 1 ♂	Chomiak, Błotek, 13.10.1907, leśnicz: Worochta, Okolice, 9.10.1908 Worochta, Okolice, 24.10.1908 Worochta, Okolice, 23.10.1908, na śniegu Worochta, 24.10.1908, na śniegu	Annitella kosciuszki [TL] Annitella kosciuszki Annitella kosciuszki Annitella kosciuszki Annitella kosciuszki
<i>Annitella obscurata</i> (McL.)	1 ♂	Tatarów (Błotek), X.1906	Chaetopteryx obscurata

1	2	3	4
<i>Chaetopteryx polonica</i> Dziedz.	1 ♀	Chomiak (Błotek), 22.IX.1906	<i>C. polonica</i>
	1 ♂	Chomiak (Błotek), pod Mikulanka, 25.IX.1906	<i>C. polonica</i>
	1 ♂	Chomiak, Gnilec, 5.10.1907	<i>C. polonica</i>
	1 ♂	Chomiak, Potok Barani, źródła, 29.9.1907	<i>C. polonica</i>
	1 ♂	Pod Dancerz, 11.IX.[19]08	<i>C. polonica</i>
<i>Chaetopteryx sahlbergi</i> McL.	1 ♂	Chomiak, Błotek, 21.10.1907	<i>C. sahlbergi</i>
	1 ♂	Chomiak, Potok Barani, ujście, 27.10.1907	<i>C. villosa</i>
	1 ♂	Przełęcz tatarska, 7.10.1907	<i>C. sahlbergi</i>
	1 ♀	Przełęcz tatarska, 7.10.1907	<i>Annitella kosciuszki</i>
<i>Chaetopteryx subradiata</i> Klap.	1 ♂	Chomiak, Błotek, leśnicz, 27.9.1907 [TL]	<i>C. subradiata</i>
<i>Allogamus auricollis</i> (Pict.)	2 ♀	Porzyszevska, 9.IX.[19]08	<i>Halesus auricollis</i>
	2 ♀	Forešťanka, 12.IX.[19]08	<i>Halesus auricollis</i>
<i>Allogamus uncatus</i> (Brauer)	2 ♂	Pod Dancerz, 11.IX.[19]08	<i>Halesus uncatus</i>
	1 ♂	Forešťanka, 12.IX.[19]08	<i>Halesus uncatus</i>
<i>Chionophylax czarnohoricus</i> (Dziedz.)	1 ♂ (PL)	Czarnohora, pot. z Dancerza, 30.V.1909	<i>Acrophylax czarnohoricus</i>
	2 ♂♂ (PL)	Czarnohora, Gadżyna, jezioro, 30.V.1909	<i>Acrophylax czarnohoricus</i>
<i>Halesus digitatus</i> (Schrank)	1 ♀	Worochta, 8.IX.[19]08	<i>H. interpunctatus</i>
	1 ♀	Forešťanka, 12.IX.[19]08	<i>H. interpunctatus</i>
<i>Isogamus aequalis</i> (Klap.)	1 ♂ 1 ♀ (ST)	Chomiak (Błotek), 22.IX.1906	<i>Anisogamus aequalis</i>
	15 ♂♂	Chomiak, 5.IX.[19]08 [TL]	<i>Anisogamus aequalis</i>
	1 ♀	Worochtěnský, 7.IX.[19]08	<i>Anisogamus aequalis</i>
<i>Isogamus czarnohorensis</i> (Dziedz.)	3 ♂♂	Porzyszevska, 9.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
	1 ♂	Forešťanka, 9.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
	5 ♂♂	Pod Turkul, 10.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
	2 ♂♂ 1 ♀	Pod Turkul, 10.IX.[19]08 [TL]	<i>Anisogamus aequalis</i>
	3 ♂♂	Pod Breskul, 11.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
	1 ♀	Pod Breskul, 11.IX.[19]08 [TL]	<i>Anisogamus aequalis</i>
	1 ♀	Pod Dancerz, 11.IX.[19]08 [TL]	<i>Anisogamus aequalis</i>
	3 ♂♂	Pod Dancerz, 11.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
	2 ♂♂	Pod Dancerz, Uhry, 11.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?
2 ♂♂	Forešťanka, 12.IX.[19]08 [TL]	<i>Potamophylax carpathicus</i> Sýkora det.?	
<i>Melampophylax nepos triangulifera</i> Bts.	1 ♂	Chomiak, (pot. podziemny), 6.10.1905 Dz. [Dziedzielewicz leg.]	<i>Chaetopteryx fusca</i>

1	2	3	4
<i>Potamophylax latipennis</i> (Curt.)	1 ♀	Worochta, 8.IX.[19]08	<i>Stenophylax latipennis</i>
<i>Potamophylax luctuosus</i> (Piller & Mitt.)	1 ♂	Worochta, Dr. Lokay [leg.] VI.[19]11	<i>Stenophylax luctuosus</i>
<i>Potamophylax nigricornis</i> (Pict.)	1 ♂	Worochta, Stoeckel [leg.]	<i>Stenophylax nigricornis</i>
<i>Lithax niger</i> (Hagen)	2 ♂♂	Chomiak, Potok Barani, źródła, 27.V.1909	<i>L. niger</i>

Explanations: PL – paralectotype(s), ST – syntype(s), TL – specimen(s) from the type locality; /* authors specifications are found in square brackets; for current Ukrainian names see Table 2.

Since, the basic part of information on the caddis flies of the Ukrainian Carpathians is found in Dziędzielewicz's papers, for convenience in this publication, his Polish geographical names are used (mainly for the localities in the Dniester and Prut river-basins) (see e.g. Table 2). Other geographical names are transliterated from Ukrainian according to official Ukrainian-English transliteration system (adopted by the Ukrainian Legal Terminology Commission (Decision N 9): <http://www.rada.gov.ua/translit.htm>).

Table 2

Historical localities and their current Ukrainian geographical and administrative names

Original locality names	Transcription of current Ukrainian names	Geographical region
Błotek	environs of Kremenets' village	Gor
Chomiak	Khomiak	Gor
Czarnohora	Chornohora	Czar
Forešťanka	Foreshchynka (7 km up at the Vorokhta, upper part of the Prut River)	Czar
Gnilec	the stream at vicinity of Vorokhta village	Czar
Lwów	Lviv	Lviv (Roz)
Mikuliczyn	Mykulychyn	Gor
Pod Breskul	below Breskul Mt.	Czar
Pod Dancerz	below Dantsezh Mt.	Czar
Pod Turkul	below Turkul Mt.	Czar
Potok Barani	Baranii stream	Gor
Porzyszevska	Pozhyzhevs'ka	Czar
Przełęcz tatarska	Tatars'kyi pass (Yablunets'kyi pereval)	Czar/Gor
Tatarów	Kremenets' [Tatariv]	Gor
Tatarów (Magórczyk)	Kremenets' (the stream)	Gor
Worochta	Vorokhta	Czar
Worochtěnský	Kryvopil's'kyi pass (pereval)	Czar

The following abbreviations are used (the transliteration from Ukrainian original names is added in *italics*):

– captured with light trap

* – species new for the Ukrainian fauna

asl – a.s.l.

Ch – Chvojka

- coll – collected
 confl – confluence
 Czar – Czarnohora Massif [*Chornohora*]
 E-Bieszcz – Eastern Bieszczady Mts. [*Beskydy*]
 E-CF – East-Carpathian foothills (in the paper it concerns only confluence of rivers Prut and Cheremosh) [*Skhidnokarpats'ka rivnyna*]
 Gor – Gorgany Mts. [*Gorgany*]
 Hryn – Polonyny Hryniawskie Mts. [*Polonyny Hryniavs'ki*]
 Pod – Podole (Dniestr river) [*Podillia (Dniester)*]
 Pok – Pokucie (Pokucko-Bukowinian East-Carpathians) [*Pokuttia (Skhidni Pokuts'ko-Bukovyns'ki Karpaty)*]
 Pol – Polonyna [*Polonyna*]
 Pryrod Zapov – Nature Reserve [*Pryrodni Zapovydyk*]
 riv – river
 Roz – Roztocze [*Roztochchia*]
 str – stream
 Svyd – Świdowiec Mts. [*Svydivets'*]
 Sz – Szczęśny
 trib – tributary
 VCR – Voulcanic Carpathians Region [*Vulkanichno-Karpats'ka oblast'*]

Results

A total of 125 species/subspecies was identified (B. Szczęśny – 116 taxa, P. Chvojka – 30 taxa) including 18 species for the first time recorded from Ukraine. Identifications of several species are based on single female specimens (*Hydroptila vectis*, *Polycentropus excisus*, *P. schmidi* and *Triaenodes bicolor*) and their correctness should be confirmed by males.

Records of the following species in the region are important from the biogeographical point of view:

Rhyacophila confinium – the East Carpathian endemic species known from the Rodna Mts. and the Maramuresh Mts. is confirmed in the Ukrainian Carpathians for the first time and the Czarnohora Massif is the northernmost record in the East Carpathians.

R. glareosa is new to Ukraine, the Czarnohora Massif out of the Rodna Mts. is the second location in the East Carpathians for the species.

R. torrentium was known only from the Czarnohora Massif [8] up to now; the Gorgany Mts. is new station in Ukraine.

Hydroptila ivisa caught by light traps in the Gorgany Mts. (Pryrod Zapov „Gorgany“, Zhnets' str) and at the Chorny Cheremosh river (between the Czarnohora Massif and the Polonyny Hryniavs'ki Mts.) is the new species for the Carpathian Mts.

Hydropsyche tabacaru – the first record for the Ukrainian Carpathians (the Gorgany Mts. and the Svydivets' Mts.) confirms the distribution of the species along the whole arch of the East and the South Carpathians.

Limnephilus marmoratus – new record for the Ukrainian fauna and for the Carpathians.

Annitella lateroproducta – the new and important record from the Svydivets' Mts. is the northernmost locality of the taxon; its up to the now known distribution included the South Carpathians and the East Carpathians southerly to the Czarnohora Massif. It should be stressed, that all the specimens were collected at a shore of the Herashaska Lake only.

Chaetopteryx villosa – its new locality situated on the Czarnohora Massif at 1400 m asl is very interesting and important from the biogeographical point of view [6].

Allogamus dacicus – new record from the Czarnohora Massif is the northernmost locality of the species in the East Carpathians.

Chionophylax czarnohoricus – the new record from the Svydivets' Mts. enlarges until now known distribution of the species; the present known localities are: the Rodna Mts., the Czarnohora Massif and the Svydivets' Mts.

Oecetis notata – new record for Ukraine and for the East and South Carpathian Mts.

Twenty one recorded species (17% of total) were caught only in single specimens, seventy of them (56%) in less than 10 specimens. All of the most numerous species, i.e. those represented by at least 100 specimens (the most numerous is *Ecclisopteryx dalecarlica* with 1,620 specimens), were captured in vast number with light traps and all of them belong to common taxa largely distributed in Europe. Only *Chaetopteryx polonica* (108 specimens) is endemic for the Carpathians, but that was also easily collected in high number on snow.

As much as 296 specimens (all captured with light traps) represented by 24 taxa were collected out of the East Carpathians, i.e. at the confluence of Cheremosh and Prut rivers (the East Carpathians Foothills) and in Dniestr river (the Podole Uplands). These are taxa from the families: *Hydroptilidae*, *Ecnomidae*, *Polycentropodidae*, *Psychomyiidae*, *Hydropsychidae* and *Leptoceridae*, typical inhabitants of lowland rivers and/or stagnant waters.

The number of taxa found for every of the visited regions depends more on frequency of visiting of the place than on the total number of collected specimens. E.g. 49 taxa were identified in 2,458 specimens gathered in the Gorgany Mts., but 58 taxa in materials of 1,423 specimens from the Czarnohora Massif, 24 species of 1,175 specimens from the Pokucie and 45 species of 520 specimens from the Svydivets' Mts.

Species list

Rhyacophilidae

**Rhyacophila confinium* Botoșăneanu, 1957, Sz: 4♂♂, 1♀, 16.VII.1995 Czar (Arendarski str).

R. fasciata Hagen, 1859, Sz: 1♂, 13.VII.1998, 1♂, 19.X.2001 Gor (Limnytsia riv at Bystrets'); 12♂♂ and #12♂♂, 8-9.X.1995 Czar (Breskulec str, Dancerz str); #2♂♂, 10.VII.2005 Pok (Michalkov str at Gorodok).

**R. glareosa* McLachlan, 1867, Sz: #2♂♂, 12.VII.2005 Czar (Prut riv at Forestenka).

R. laevis Pictet, 1834, Ch: 13♂♂, 2.VI.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylypets'); 2♂♂, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznytsia Mt. at Kvasy); Sz: #33♂♂, 25.VI.2006, #7♀♀, 25.VI.2007 Czar (springs of left trib of Chorny Cheremosh riv at forester's lodge at Zelena).

R. mocsaryi Klapálek, 1898, Ch: 1♂, 1♀, 2.VII.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylypets'); Sz: #8♂♂, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn), 48♂♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), #3♂♂, 21.VI.2004 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”); #16♂♂, 1♀, 12.VII.2005 Czar (Prut riv at Forestenka); #5♂♂, 27.VI.2006 Czar (Chorny Cheremosh riv at Zelena).

R. nubila (Zetterstedt, 1840), Ch: 1♀, 3.VI.1996 Tereblia riv below Kolochava; Sz: 78♂♂, 265♀♀, coll. with different methods in period 20.VI-29.X, at streams and rivers up to 1000 m asl (also #2♀♀, 21.VI.1996 at 1500 asl, the Svydivets' Mts.).

R. obliterated McLachlan, 1863, Sz: 6♂♂, 6♀♀, E-Bieszcz (Roztoka str); #7♂♂, 4♀♀, Gor (Limnytsia riv, Pryrod Zapov „Gorgany”); #71♂♂ Czar (Prut riv at Forestenka, Chorny Cheremosh riv at Zelena); 5♂♂ Hryn

(Hnylets' str at Pol Skupova); 10♂♂, 3♀♀ ♀, Svyd (outflow from Herashaska lake), all specimens coll. in October 1995-2006.

R. philopotamoides McLachlan, 1879, **Ch:** 4♂♂, 2♀♀ ♀, 2.VI.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylypets'); 2♂♂, 3.VI.1996 Gor (Roztoka str above Synevyr's'ka Poliana); **Sz:** 1♀, 9.X.1995 Czar (Breskulec str on snow), #12♂♂, 12.VII.2005 Czar (Prut riv at Forestenka), #26♂♂, 33♀♀ ♀, 25.VI.2006, #29♂♂, 10♀♀ ♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); #4♂♂, 21.VI.1996 Svyd (1500 m asl).

R. polonica McLachlan, 1879, **Sz:** #2♂♂, 9.X.1995 Czar (Breskulec str); #1♀, 18.VII.1995 Svyd (Mala Shopurka str).

R. torrentium Pictet, 1834, **Sz:** 1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets').

R. tristis Pictet, 1834, **Ch:** 9♂♂, 1♀, 3.VI.1996 Gor (Roztoka str above Synevyr's'ka Poliana); 3♂♂, 1♀, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznyt'sia Mt. at Kvasy); 6♂♂, 7.VI.1996 Czar (left trib of Tysa riv SW Menchul Mt. at Kvasy); **Sz:** 1♂, 1♀, 21.VI.2004 Gor (Sitnyi str trib of Zelena riv in Pryrod Zapov „Gorgany"); #1♂, 12.VII.2005 Czar (Prut riv at Forestenka).

Glossosomatidae

Glossosoma boltoni Curtis, 1834, **Sz:** #25♀♀ ♀, 27.VI.2006, #2♀♀ ♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena), #1♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

G. conformis Neboiss, 1963, **Sz:** #1♂, 12.VII.2005 Czar (Prut riv at Forestenka); #2♀♀ ♀, 18.VII.1995 Svyd (Mala Shopurka str).

G. intermedium (Klapálek, 1892), **Ch:** 2♀♀ ♀, 3.VI.1996 Gor (Roztoka str above Synevyr's'ka Poliana).

Synagapetus armatus (McLachlan, 1879), **Ch:** 1♂, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznyt'sia Mt. at Kvasy); **Sz:** 1♂, 7.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov); #2♀♀ ♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

S. iridipennis McLachlan, 1879, **Ch:** 1♂, 3.VI.1996 Gor (Roztoka str above Synevyr's'ka Poliana).

Hydroptilidae

Agraylea sexmaculata Curtis, 1834, **Sz:** #1♂, 9.VII.2004 Pok (Rybnysia riv at Gorodok); #82♂♂, 12♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv), #1♂, 22.VI.2007 E-CF (Prut riv at confl with Cheremosh).

Allotrichia pallicornis* (Eaton, 1873), **Sz: #1♂, 3♀♀ ♀, 20.VI.1996 Svyd (Shopurka str at Kobylets'ka Poliana); #1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok), #33♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

Hydroptila forcipata (Eaton, 1873), **Ch:** 6♂♂, 2♀♀ ♀, 3.VI.1996 Tereblia riv below Kolochava; 1♂, 8.VI.1996 Tysa riv below Khust; **Sz:** #15♀♀ ♀, 20.VI.1996 Svyd (Shopurka str at Kobylets'ka Poliana); #1♂, 1♀, 29.X.2004 Gor (Bystrytsia riv at Bystrets'), #2♀♀ ♀, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #1♂, 2♀♀ ♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena); #3♂♂, 38♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok); #1♂, 2♀♀ ♀, 23.VI.2006, #3♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv), #101♀♀ ♀, 22.VI.2007 E-CF (Prut riv at confl with Cheremosh); #4♂♂, 80♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

H. ivisa* Malicky, 1972, **Sz: #1♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), #1♂, 2♀♀ ♀, 18.VI.2004 Gor (Bystrytsia Nadvirmians'ka riv at Bystrets'), #1♀, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #1♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena).

H. lotensis* Mosely, 1930, **Sz: #4♀♀ ♀, 20.VI.1996 Svyd (Shopurka str at Kobylets'ka Poliana); #5♀♀ ♀, 18.VI.1996 Pod (Dniestr riv at Semakivtsi); #1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok); #6♂♂, 35♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv), #9♂♂, 148♀♀ ♀, 22.VI.2007 (Cheremosh riv and Prut riv at confl); #1♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

H. occulta (Eaton, 1873), **Sz:** #2♀♀ ♀, 20.VI.1996 Svyd (Shopurka str at Kobylets'ka Poliana); #10♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv and Michalkov str at Gorodok).

H. sparsa* Curtis, 1834, **Sz: #3♀♀ ♀, 23.VI.2006, #12♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

H. tineoides Dalman, 1819, **Sz:** #2♀♀ ♀, 22.VI.2007 E-CF (Prut riv at confl with Cheremosh).

H. vectis Curtis, 1834 (?), **Sz:** #1♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Ithytrichia lamellaris* Eaton, 1873, **Sz: #6♂♂, 38♀♀ ♀, 23.VI.2006, #2♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

Orthotrichia costalis (Curtis, 1834), **Sz:** #33♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

O. tragetti* Mosely, 1930, **Sz: #4♂♂, 6♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Oxyethira flavicornis (Pictet, 1834), **Sz:** #1♀, 22.VI.2007 E-CF (Prut riv at confl with Cheremosh).

Philopotamidae

Wormaldia occipitalis (Pictet, 1834), **Ch:** 1♂, 7.VI.1996 Czar (left trib of Tysa riv SW Menchul Mt. at Kvasy); **Sz:** 1♂, 8.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov); #1♂, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

Philopotamus montanus (Donovan, 1813), **Ch:** 1♂, 4♀♀ ♀, 3.VI.1996 Gor (Roztoka str above Synevyr'ska Poliana); 1♂, 7.VI.1996 Syvd (right trib of Tysa riv SSE of Blyznytisia Mt. at Kvasy); 1♂, 7.VI.1996 Czar (left trib of Tysa riv SW Menchul Mt. at Kvasy).

P. variegatus (Scopoli, 1763), **Ch:** 3♂♂, 2♀♀ ♀, 3.VI.1996 Gor (Roztoka str above Synevyr'ska Poliana); 1♂, 7.VI.1996 Czar (left trib of Tysa riv SW Menchul Mt. at Kvasy); **Sz:** #1♂, 1♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); 5♂♂, 8♀♀ ♀, 21.VI.2004 Gor (Sityni str trib of Zelena riv in Pryrod Zapov „Gorgany”); #3♂♂, 12.VII.2005 Czar (Prut riv at Forestenka), #1♀, 25.VI.2006, #2♀♀ ♀, 25.VI.2007, Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); #1♀, 10.VII.2004 Pok (Michalkov str at Gorodok).

Ecnomidae

Ecnomus tenellus (Rambur, 1842), **Sz:** #3♂♂, 9♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Polycentropodidae

Cymus crenaticornis (Kolenati, 1859), **Sz:** #1♂, 2♀♀ ♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

C. trimaculatus (Curtis, 1834), **Sz:** #1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok), #1♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

Holocentropus picicornis (Stephens, 1836), **Sz:** #2♂♂, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Neureclipsis bimaculata (Linnaeus, 1758), **Sz:** #8♀♀ ♀, 23.VI.2006, #2♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

Plectrocnemia conspersa (Curtis, 1834), **Sz:** #1♀, 19.VI.1996, Gor (Zhnets' str at Mikuliczyn); #1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok); #2♂♂, 2♀♀ ♀, 25.VI.2006, Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); #1♂, 21.VI.1996 Syvd (1500 m asl).

Polycentropus excisus* Klapálek, 1894 (?), **Sz: #1♀, 21.VI.2004 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”).

P. flavomaculatus (Pictet, 1834), **Sz:** #1♂, 1♀, 11.VII.2003 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'), #1♀, 19.VI.1996, Gor (Zhnets' str at Mikuliczyn); #2♂♂, 6♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv and Michalkov str at Gorodok), #2♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

P. irroratus (Curtis, 1835), **Sz:** #3♂♂, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

P. schmidti* Novák & Botoşăneanu, 1965, (?), **Sz: #1♀, 21.VI.2004 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”).

Psychomyiidae

Lype reducta (Hagen, 1868), **Sz:** #1♂, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Psychomyia pusilla (Fabricius, 1781), **Ch:** 9♂♂, 2♀♀ ♀, 8.VI.1996 Tysa riv below Khust; **Sz:** #8♀♀ ♀, 20.VI.1996 Syvd (Shopurka str at Kobylets'ka Poliana); # 3♀♀ ♀, 11.VII.2003 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'), #3♀♀ ♀, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #5♂♂, 21♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok), #:28♂♂, 600♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve); #1♂, 7♀♀ ♀, 23.VI.2006, #6♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

Hydropsychidae

Hydropsyche angustipennis (Curtis, 1834), **Sz:** #1♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

H. botoşaneanui Marinković-Gospodnetić, 1966, **Sz:** #1♀, 18.VI.2004 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'), #1♀, 19.VI.1996, Gor (Zhnets' str at Mikuliczyn); #2♀♀ ♀, 27.VI.2006, #27♀♀ ♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena).

H. bulbifera McLachlan, 1878, **Sz:** #2♀♀ ♀, 18.VI.1996, Pod (Dniestr riv at Semakivtsi); #2♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

H. contubernalis McLachlan, 1865, **Ch:** 5♂♂, 8.VI.1996 Tysa riv below Khust; **Sz:** #2♂♂, 16♀♀ ♀, 18.VI.1996, Pod (Dniestr riv at Semakivtsi); #1♂, 23♀♀ ♀, 23.VI.2006, #6♂♂, 33♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

H. incognita Pitsch, 1993, **Ch:** 1♂, 8.VI.1996 Tysa riv below Khust; **Sz:** #2♀♀ ♀, 18.VI.1996 Pod (Dniestr riv at Semakivtsi); #1♀, 19.VI.1996, Gor (Zhnets' str at Mikuliczyn), #1♂, 20♀♀ ♀, 11.VII.2003, #2♂♂, 9♀♀ ♀, 18.VI.2004 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'); #3♀♀ ♀, 12.VII.2005 Czar (Prut riv at Forestenka), #43♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv and Michalkov str at Gorodok), #11♂♂, 65♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve); #1♀, 27.VI.2006, #1♂, 6♀♀ ♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena); #2♀♀ ♀, 23.VI.2006, #18♂♂, 11♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv); #2♂♂, 200♀♀ ♀, 20.VI.1996 Syvd (Shopurka str at Kobylets'ka Poliana, about 500 m asl), #1♀, 21.VI.1996 Syvd (1500 m asl).

H. instabilis (Curtis, 1834), **Sz:** #31♂♂, 45♀♀ ♀, 11.VII.2003 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'); #98♀♀ ♀, 9.VII.2004 Pok (Rybnysia riv and Michalkov str at Gorodok); #3♂♂, 5♀♀ ♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve); #57♀♀ ♀, 18.VII.1995 Syvd (Mala Shopurka str).

H. modesta Navás, 1925, **Ch:** 1♂, 8.VI.1996 Tysa riv below Khust; **Sz:** #2♀♀ ♀, 18.VI.1996, Pod (Dniestr riv at Semakivtsi); #4♀♀ ♀, 23.VI.2006, #1♂, 17♀♀ ♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

H. ornatula McLachlan, 1878, **Sz:** #1♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

H. pellucidula (Curtis, 1834), **Sz:** #1♂, 10♀, 23.VI.2006, #4♂♂, 60♀♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

H. saxonica McLachlan, 1884, **Sz:** #1♂, 9.VII.2004 Pok (Michalkov str at Gorodok); #1♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

H. tabacarui* Botoșăneanu, 1960, **Ch: 1♂, 3.VI.1996 Gor (Roztoka str above Synevyr'ska Poliana); 6♂♂, 6♀♀, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznytisia Mt. at Kvasy).

Phryganeidae

Oligotricha striata (Linnaeus, 1758), **Sz:** 3♂♂, 11♀♀, 16.VII.1995 Czar (Niesamowite Lake), #1♂, 25.VI.2006 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

Brachycentridae

Brachycentrus montanus Klapálek, 1892, **Sz:** #1♂, 735♀♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), #2♀♀, 21.VI.2004 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany“), #126♀♀, 18.VI.2004, Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'), #3♀♀, 19.VI.1996, Gor (Zhnets' str at Mikuliczyn); #3♀♀, 12.VII.2005 Czar (Prut riv at Forestenka), #1♀, 25.VI.2006 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena), #22♂♂, 33♀♀, 27.VI.2006, #10♀♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena).

Micrasema minimum McLachlan, 1876, **Ch:** 2♂♂, 3♀♀, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznytisia Mt. at Kvasy).

Goeridae

Lithax niger (Hagen, 1859), **Ch:** 1♂, 4♀♀, 3.VI.1996 Gor (trib of Synevyr lake); 15♂♂, 4♀♀, 5.-6.VI.1996 Czar (sources and streams up to 1700 m asl); **Sz:** 2♂♂, 2♀♀, 16.VII.1995 Czar (Arendarski str).

Silo graellsii Ed. Pictet, 1865, **Ch:** 1♂, 3.VI.1996 Gor (Roztoka str above Synevyr'ska Poliana); **Sz:** #3♂♂, 12.VII.2005 Czar (Prut riv at Forestenka), #1♂, 5♀♀, 25.VI.2006, #1♂, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); 2♀♀, 8.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov).

S. pallipes (Fabricius, 1781), **Sz:** #1♂, 1♀, 9.VII.2004 Pok (Michalkov str at Gorodok), #1♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

S. piceus (Brauer, 1857), **Sz:** #1♂, 1♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); #1♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

Limnephilidae

Drusinae

Drusus brunneus Klapálek, 1898, **Ch:** 2♂♂, 2♀♀, 2.VI.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylpetsy);, 2♂♂, 3.VI.1996 Gor (trib of Synevyr lake); **Sz:** #1♂, 1♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), 2♂♂, 3♀♀, 19.VI.2004 Gor (Dzhurdzhi str and Sitnyi str in Pryrod Zapov „Gorgany“); 13♂♂, 16.VII.1995 Czar (Dancerz str); 3♂♂, 6♀♀, 8.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov).

D. carpathicus Dzieńdzielewicz, 1911, **Ch:** 10♂♂, 1♀, 5.-6.VI.1996 Czar (sources and streams up to 1700 m asl); **Sz:** 1♀, 9.VI.1994 Svyd (spring above forest line).

D. discolor (Rambur, 1842), **Sz:** #2♂♂, 13.VII.1998 Gor (right trib of Limnytsia riv at Bystrets'), 1♀, 21.VI.2004 Gor (Sitnyi str in Pryrod Zapov „Gorgany“); #5♂♂, 12.VII.2005 Czar (Prut riv at Forestenka).

D. monticola McLachlan, 1876, **Ch:** 1♀, 5.VI.1996 Czar (stream and lake N of Chorna Hora Mt., 1700 m asl).

D. trifidus (McLachlan, 1868), **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); #4♂♂, 12.VII.2005 Czar (Prut riv at Forestenka).

Ecclisopteryx dalecarlica Kolenati, 1848, **Sz:** #11♂♂, 197♀♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), #85♀♀, 11.VII.2003, #2♂♂, 670♀♀, 18.VI.2004 Gor (Bystrytsia Nadvirnians'ka riv at Bystrets'), #8♂♂, 54♀♀, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #5♂♂, 45♀♀, 12.VII.2005 Czar (Prut riv at Forestenka), #6♂♂, 25.VI.2006, #4♂♂, 5♀♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena);, #1♂, 290♀♀, 27.VI.2006, #1♂, 231♀♀, 25.VI.2007 Czar (Chornyi Cheremosh riv at Zelena); #1♂, 4♀♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

E. madida (McLachlan, 1867), **Sz:** #2♀♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets').

Limnephilinae

Limnephilini

Grammotaulius nigropunctatus (Retzius, 1783), **Sz:** 1♂, 9.VI.1994 Svyd (above forest line).

Limnephilus affinis Curtis, 1834, **Sz:** #1♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets').

L. auricula Curtis, 1834, **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); 2♂♂, 26♀♀, 6.X.1995 Svyd (Herashaska lake).

L. bipunctatus Curtis, 1834, **Sz:** 1♂, 9.VI.1994 Svyd (Velykyj Kotel lake), 1♀, 9.VI.1994, 1♂, 3♀♀, 6.X.1995 Svyd (Herashaska lake).

L. decipiens (Kolenati, 1848), **Sz:** 2♀♀, 16.VII.1995 Czar (at ponds on slope of Dancerz Mt.), #1♂, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

L. extricatus McLachlan, 1865, **Sz:** #2♂♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); #1♀, 12.VII.2005 Czar (Prut riv at Forestenka), #1♂, 25.VI.2006, #1♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena).

L. griseus (Linnaeus, 1758), **Sz:** #1♂, 1♀, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); 2♂♂, 16.VII.1995 Czar (at Dancerz str and Arendarski str), #1♂, 12.VII.2005 Czar (Prut riv at Forestenka), #1♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); 1♂, 4♀♀, 6.X.1995 Svyd (Herashaska lake).

L. marmoratus* Curtis, 1834, **Sz: #1♀, 12.VII.2005 Czar (Prut riv at Forestenka).

L. nigriceps (Zetterstedt, 1840), **Sz:** 3♂♂, 3♀♀, 6.X.1995 Svyd (Herashaska lake).

L. rhombicus (Linnaeus, 1758), **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); #1♀, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

L. sparsus Curtis, 1834, **Sz:** #1♀, 25.VI.2006, #1♀, 25.VI.2007 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); 1♂, 6.X.1995 Svyd (Herashaska lake), #1♂, 1♀, 21.VI.1996 Svyd (1500 m asl).

L. vittatus (Fabricius, 1798), **Sz:** 1♀, 6.X.1995 Svyd (Herashaska lake), #1♀, 21.VI.1996 Svyd (1500 m asl).

Rhadicoleptus alpestris sylvanocarpaticus Botoșăneanu & Riedel, 1965, **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); 1♀, 8.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov).. #9♂♂, 25♀♀, 21.VI.1996 Svyd (1500 m asl).

Chaetopterygini

Annitella chomiensis (Dziędziewicz, 1908), **Sz:** 6♂♂, 4♀♀, 16.X.2001 E-Bieszcz (Roztoka str); #9♂♂, 8♀♀, 29.X.2004 Gor (Bystrytsia Nadvirmians'ka riv at Bystrets'); 2♂♂, 8♀♀, 6.X.1995 Svyd (along str - outflow from Herashaska lake).

A. „dziedziewiczi” Schmid, 1952, **Sz:** #28♂♂, 26.X.2005 Czar (Prut riv at Forestenka), 1♂, 1♀, 27.X.2005 Czar (Breskulec str).

A. lateroproducta (Botoșăneanu, 1952), **Sz:** 23♂♂, 12♀♀, 8.X.1995 Czar (at the Barbenescu lake); 2♂♂, 21.X.2006, Czar (Chornyi Cheremosh riv at Zelena); 18♂♂, 18♀♀, 6.X.1995 Svyd (Herashaska lake).

A. obscurata (McLachlan, 1876), **Sz:** #2♂♂, 3♀♀, 29.X.2004 Gor (Bystrytsia Nadvirmians'ka riv at Bystrets'); #2♂♂, 1♀, 26.X.2005 Czar (Prut riv at Forestenka); 1♀, 6.X.1995 Svyd (along str - outflow from Herashaska lake).

Chaetopteryx polonica Dziędziewicz, 1889, **Sz:** #1♂, 29.X.2004 Gor (Bystrytsia Nadvirmians'ka riv at Bystrets'); #8♂♂, 8-26.X.1995-2006 Czar (Dancerz str, Breskulec str and Prut riv at Forestenka), #21♂♂, 9♀♀, 21.X.2006 Czar (springs of left trib of Chornyi Cheremosh riv at forester's lodge at Zelena); 61♂♂, 8♀♀, 20.X.2006 Hryn (along the spring stretch of Hnylets' str at Pol Skupova, on snow).

Ch. sahlbergi McLachlan, 1876, **Sz:** 1♂, 1♀, 27.X.2005 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”).

Ch. villosa (Fabricius, 1798), **Sz:** 1♂, 2♀♀, 9.X.1995 Czar (Breskulec str 1400 m asl, on snow).

Psilopteryx psorosa carpathica Schmid, 1952, **Sz:** 1♂, 2♀♀, 27.X.2005 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”); 12♂♂, 3♀♀, 9.X.1995 Czar (Breskulec str 1400 m asl, on snow), #1♂, 26.X.2005 Czar (Prut riv at Forestenka); 44♂♂, 12♀♀, 20.X.2006 Hryn (along the spring stretch of Hnylets' str at Pol Skupova, on snow); 1♀, 6.X.1995 Svyd (along str - outflow from Herashaska lake).

Stenophylacini

Allogamus auricollis (Pictet, 1834), **Sz:** 1♂, 71♀♀, 16.X.2001 E-Bieszcz (Roztoka str and Kamionka str).

Allogamus dacicus* (Schmid, 1951), **Sz: 1♂, 9.X.1995 Czar (Dancerz str at forest line).

Allogamus uncatus (Brauer, 1857), **Sz:** #1♂, 1♀, 29.X.2004 Gor (Bystrytsia Nadvirmians'ka riv at Bystrets'), 2♀♀, 27.X.2005 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany”); 9♂♂, 6♀♀, #16♂♂, 2♀♀, 8-26.X.1995-2006 Czar (Dancerz str, Breskulec str and Prut riv at Forestenka); 1♂, 20.X.2006 Hryn (Hnylets' str at Pol Skupova).

Chionophylax czarnohoricus (Dziędziewicz, 1911), **Ch:** 8♂♂, 1♀, 5.-6.VI.1996 Czar (stream and lake N of Chorna Hora Mt.; stream ESE of Hoverla Mt., 1700 m asl); **Sz:** 8♂♂, 1♀, 10.VI.1994 Svyd (outflow of Herashaska lake).

Halesus digitatus (Schrank, 1781), **Sz:** #6♂♂, 26.X.2005 Czar (Prut riv at Forestenka).

Isogamus czarnohorensis (Dziędziewicz, 1912), **Sz:** 1♂, 1♀, 8.X.1995 Czar (Breskulec str), #1♂, 26.X.2005 Czar (Prut riv at Forestenka).

Isogamus sp., **Sz:** 1♀, 8.VI.1994 Svyd (at spring of stream in Kuzii Pryrod Zapov); the female rather does not belong to the *Isogamus aequalis* (Klapálek, 1907) nor *I. czarnohorensis* (Dziędziewicz, 1912).

Melampophylax nepos triangulifera Botoșăneanu, 1957, **Sz:** 4♂♂, 4♀♀, 20.X.2006 Hryn (along the spring stretch of Hnylets' str at Pol Skupova, on snow).

Micropterna lateralis (Stephens, 1837), **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'); #1♂, 25.VI.2006 Czar (springs of left trib of Chorny Cheremosh riv at forester's lodge at Zelena); #1♂, 18.VII.1995 Svyd (Mala Shopurka str).

M. nycterobia McLachlan, 1875, **Sz:** #1♂, 21.VI.1996 Svyd (1500 m asl).

Parachiona picicornis (Pictet, 1834), **Sz:** 1♂, 19.VI.2004 Gor (Dzhurdzhi str in Pryrod Zapov „Gorgany“); 4♂♂, 16.VII.1995 Czar (Arendarski str and Prut riv at Forestenka); #2♂♂, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv); 1♂, 8.VI.1994 Svyd.

Potamophylax carpathicus (Dziędzielewicz, 1912), **Sz:** 1♀, 8.VI.1994 Svyd (at stream in Kuzii Pryrod Zapov).

P. cingulatus depilis Szczęśny, 1994, **Sz:** #1♂, 12.VII.2005 Czar (Pрут riv at Forestenka).

P. latipennis (Curtis, 1834), **Sz:** #2♂♂, 19♀♀, 12.VII.2005 Czar (Pрут riv at Forestenka), #1♂, 27.VI.2006 Czar (Chorny Cheremosh riv at Zelena); #4♂♂, 3♀♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok), #1♂, 10.VII.2005 Pok (Cheremosh riv at Khorotseve); #1♂, 27.VI.2006, Czar (Chorny Cheremosh riv at Zelena).

P. luctuosus (Piller & Mitterpacher, 1783), **Sz:** #1♂, 13.VII.1998 Gor (Limnytsia riv at Bystrets'), #1♂, 1♀, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #1♂, 13♀♀, 12.VII.2005 Czar (Pрут riv at Forestenka); #1♂, 1♀, 27.VI.2006, Czar (Chorny Cheremosh riv at Zelena).

P. nigricornis (Pictet, 1834), **Sz:** #5♀♀, 13.VII.1998 Gor (right trib of Limnytsia riv at Bystrets'); #5♂♂, 12♀♀, 25.VI.2006, #1♂, 3♀♀, 25.VI.2007 Czar (springs of left trib of Chorny Cheremosh riv at forester's lodge at Zelena).

Stenophylax permistus McLachlan, 1895, **Sz:** #1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok).

Odontoceridae

Odontocerum albicorne (Scopoli, 1763), **Sz:** #1♂, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

Beraeidae

Beraea pullata (Curtis, 1834), **Ch:** 3♂♂, 6♀♀, 2.VI.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylpetsy); 2♀♀, 3.VI.1996 Gor (trib of Synevyr lake);, 3♂♂, 3.VI.1996 Gor (Roztoka str above Synevyr'ska Poliana); **Sz:** 3♂♂, 2♀♀, 8.VI.1994 Svyd (Svynnyi Potok in Kuzii Pryrod Zapov).

Sericostomatidae

Notidobia ciliaris (Linnaeus, 1761), **Ch:** 3♂♂, 2.VI.1996 VCR (right trib of Rika riv, Shypok waterfall near Pylpetsy).

Sericostoma schneiderii (Kolenati, 1848), **Sz:** #1♂, 19.VI.1996 Gor (Zhnets' str at Mikuliczyn); #1♂, 10.VII.2005 Pok (Cheremosh riv at Khorotseve); #1♂, 20.VI.1996 Svyd (Shopurka str at Kobylets'ka Poliana, about 500 m asl); #5♂♂, 1♀, 25.VI.2007, Czar (Chorny Cheremosh riv at Zelena).

Leptoceridae

Adicella filicornis* (Pictet, 1834), **Ch: 2♂♂, 7.VI.1996 Svyd (right trib of Tysa riv SSE of Blyznysia Mt. at Kvasy); **Sz:** #1♂, 25.VI.2007 Czar (springs of left trib of Chorny Cheremosh riv at forester's lodge at Zelena).

Athripsodes aterrimus (Stephens, 1836), **Ch:** 8♂♂, 8.VI.1996 Tysa riv below Khust (cut-off meander).

A. bilineatus (Linnaeus, 1758), **Sz:** #3♂♂, 1♀, 9.VII.2004 Pok (Rybnysia riv at Gorodok).

A. commutatus (Rostock, 1874), **Sz:** #4♂♂, 2♀♀, 10.VII.2005 Pok (Cheremosh riv at Khorotseve).

Ceraclea albimacula* (Rambur, 1842), **Sz: #1♂, 1♀, 22.VI.2007 E-CF (Pрут riv at confl with Cheremosh).

Ceraclea annulicornis* (Stephens, 1836), **Sz: #1♂, 3♀♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Ceraclea dissimilis* (Stephens, 1836), **Sz: #33♂♂, 14♀♀, 22.VI.2007 E-CF (Cheremosh riv and Prut riv at confl).

Mystacides azurea (Linnaeus, 1761), **Ch:** 1♂, 3.VI.1996 Tereblia below Kolochava; 1♂, 1♀, 8.VI.1996 Tysa riv below Khust.

M. longicornis (Linnaeus, 1758), **Sz:** #2♀♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

Oecetis lacustris (Pictet, 1834), **Sz:** #1♂, 1♀, 23.VI.2006 E-CF (Cheremosh riv at confl with Prut riv).

O. notata* (Rambur, 1842), **Ch: 1♂, 1♀, 8.VI.1996 Tysa riv below Khust; **Sz:** #1♀, 27.VI.2006 Czar (Chorny Cheremosh riv at Zelena).

O. ochracea (Curtis, 1825), **Sz:** #3♀♀, 18.VI.1996, Pod (Dniestr riv at Semakivtsi).

Triaenodes bicolor (Curtis, 1834) (?), **Sz:** #1♀, 22.VI.2007 E-CF (Pрут riv at confl with Cheremosh).

Ylodes simulans (Tjeder, 1929), **Sz:** #5♂♂, 23.VI.2006, #14♂♂, 22.VI.2007 E-CF (Cheremosh riv at confl with Prut riv).

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