

New records of Chaetopterygini species (Trichoptera: Limnephilidae)

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ABSTRACT: This paper provides 244 data of 30 Chaetopterygini species (34 taxon) from 15 European countries (Albania, Austria, Bosnia & Herzegovina, Bulgaria, Croatia, Czech Republic, Germany, Hungary, Macedonia, Montenegro, Romania, Serbia, Slovakia, Slovenia, Spain).

Introduction

The last revision of Chaetopterygini tribe was published long ago with 24 species (SCHMID 1952). The taxonomic structure and systematic position of the tribe, especially its relation to tribe Stenophylacini became more obscure when four new genera have been erected and altogether 58 new species described. The present number of species in the tribe is 82 including the one new *Annitella* (OLÁH & KOVÁCS 2012), and nine new *Chaetopteryx* species (OLÁH 2011a, OLÁH 2011b, OLÁH et al. 2012).

In 1998 the first author has started a systematic collection project for these autumnal flying insects in order to gather material for a long needed revision. Both the field and laboratory research were financed by Sakertour, The Birdwatching and Hide Photography Company. Here we publish all the collected species excluding those published in separate papers (OLÁH 2011a, OLÁH 2011b, OLÁH & KOVÁCS 2012, OLÁH et al. 2012).

Material and methods

Adults were collected by beating vegetation above umbrella along stream and spring area as well as by sweep netting, manual singling and light trapping methods.

We have applied the methods described by OLÁH (2011b).

Depositories: HNHM = Hungarian Natural History Museum, Budapest, Hungary, MM = Mátra Museum, Gyöngyös, Hungary, OPC = János Oláh Private Collection presently under National Protection of the Hungarian Natural History Museum, Hungary.

Results

Annitella Klapálek, 1907

Annitella amelia Sipahiler, 1998 – **Spain:** Rio San Lázaro (Cabeza de Manzaneda), N42°16.631', E7°16.815', 1405 m, 28.09.2011, M. Sainz-Bariáin (1 ♂, 1 ♀, OPC).

Annitella apfelbecki (Klapálek, 1899) – **Croatia:** Kupica spring, N45°25'44.74", E14°51'01.41", 15.10.2008, I. Sivec (5 ♂, 1 ♀, OPC). **Montenegro:** Durmitor Mts, Donja Bukovica, Šuškovac, N43°00'39.1", E19°09'36.8", 1330 m,

06.11.2011, T. Kovács, G. Magos (6♂, 5♀, OPC). Durmitor Mts, Polje Perovića, Glava Bukovice, N43°03'25.3", E19°06'43.6", 1350 m, 06.11.2011, T. Kovács, G. Magos (10♂, 3♀, OPC; 4♂, 1♀, MM). Komovi Mts, Kolašin – Lijevo Rijeka, Cucevica, Veruša, N42°40'31.6", E19°31'22.5", 1145 m, 08.11.2011, T. Kovács, G. Magos (11♂, 7♀, OPC). Komovi Mts, Mateševo – Bare Kraljske, Nesirenski potok, N42°45'04.6", E19°34'23.2", 1030 m, 08.11.2011, T. Kovács, G. Magos (13♂, 5♀, OPC). Komovi Mts, Verusa N 2 km, on the Kolašin – Lijevo Rijeka road, Cucevica, Veruša, N42°40.527", E19°31.375", 1133 m, 13.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (7♂, HNHM). Savino Polje E 1 km, Dalovica klisura, Bistrica River, N43°04.244", E19°51.687", 609 m, 13.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (7♂, HNHM). Šavnik, road to Nikšić, left side stream of Bijela Rijeka, N42°56'59.8", E19°05'55.7", 870 m, 07.11.2011, T. Kovács, G. Magos (2♂, 2♀, OPC). Sinjajevina Mts, Bistrica, Ljevak, Rijeka, N42°59'15.1", E19°26'02.6", 847 m, 04.11.2011, T. Kovács, G. Magos (1♀, OPC). Sinjajevina Mts, Bogomolje, mouth of Ljutica, N43°08'16.6", E19°18'07.7", 645 m, 05.11.2011, T. Kovács, G. Magos (2♂, 1♀, OPC). Sinjajevina Mts, Donji Lipovo, left side streams of Plašnica, 42°51'57.6", E19°26'26.6", 980 m, 10.11.2011, T. Kovács, G. Magos (2♂, 1♀, OPC). Zijovo Mts, Rikavacko Jezero near Katun Rikavac, inflow brook, N42°34.165', E19°36.150', 1326 m, 13.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (1♂, HNHM). **Slovenia:** Krka, Poltarica spring, N45°53'24.29", E14°46'16.82", 25.10.2008, I. Sivec (5♂, 1♀, OPC).

Annitella chomiensis (Dziedzielewicz, 1908) – **Romania:** Maramures county, Rodna Mts, Borsa-Statiunea Borsa, stream along the road towards Prislop Pass, N47°37'34.0", E24°49'13.0", 1014 m, 26.09.2006, L. Dányi, J. Kontschán, D. Murányi (1♂, HNHM).

Annitella esparraguera (Schmid, 1952) – **Spain:** Sierra de Baza, Granada, Rio Gor, UTM (X:513147, Y:4133118), 1773 m, 09.11.2007, C. Zamora-Munoz (6♂, 1♀, OPC; 2♂, MM). Sierra de Cazorla, Jean. Rio Guadalquivir, UTM (X:505475, Y:4194974), 1378 m, 01.11.2009, C. Zamora-Munoz (1♀, OPC).

Annitella iglesiasi Gonzalez & Malicky, 1988 – **Spain:** Sierra Nevada, Granada, Barranco de Manuel Casas, UTM (X:460987, Y:4105396), 1704 m, 06.10.2008, M. Sainz-Bariain (1♂, OPC); 18.10.2008, M. Sainz-Bariain (1♀, OPC).

Annitella lateroproducta (Botosaneanu, 1952) – **Romania:** Apuseni Mts, Padis, open stream near pine forested sphagnum bog, N46°35'20.632", E22°45'54.857", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (8♂, 6♀, OPC). Apuseni Mts, Sebes Körös valley, Suncuius, near Izbandis spring, 26.10.2009, singled, J. Oláh, M. Bálint (7♂, OPC). Apuseni Mts, Valea lui Dragan, N46.83119°, E22.77093°, 650 m, 20.11.2008, M. Bálint, Tasnádi (1♂, OPC). Caraș-Severin county, Semenic Mts, open brook E of Mt. Piatra Goznei, N45°10'55.4", E22°04'01.4", 1340 m, 15.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC). Caraș-Severin county, Țarcu Mts, left side brook of open stream on the N slope of Mt. Țarcu, N45°17'40.7", E22°31'44.5", 1500 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 1♀, OPC). Caraș-Severin county, Țarcu Mts, open stream on the N slope of Mt. Țarcu, N45°17'46.2", E22°31'41.5", 1500 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, 1♀, OPC; 2♂, 1♀, MM). Caraș-Severin county, Țarcu Mts, open stream with Salix bushes 6 km S of Poiana Mărlului, N45°20'47.5", E22°31'04.6", 1000 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC). Ciucaș Mts, 3 km S of Dălghiu, Dălghiu stream, N45°33'00.2", E25°54'43.5", 970 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 1♀, OPC).

Annitella obscurata (McLachlan, 1876) – **Montenegro:** Prokletije Mts, Gusinje, Alipašini Izvori, N42°33'01.2", E19°49'30.5", 930 m, 08.11.2011, T. Kovács, G. Magos (11♂, 1♀, OPC). **Romania:** Apuseni Mts, Bratca Village, Bratcuti Valley, 28.10.2006, M. Bálint (1♂, OPC). Ciucaș Mts, Vama Buzăului – Dălghiu (4.5 km SE Dălghiu), left side stream of Dălghiu stream, N45°35'42.3", E25°57'03.2", 830 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 2♀, OPC) – Ciucaș Mts, Vama Buzăului – Dălghiu, mouth of left side stream of Dălghiu stream, N45°35'18.1", E25°57'58.6", 810 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, 3♀, OPC; 3♂, 2♀, MM).

Annitella sanabriensis (Gonzalez & Otero, 1985) – **Spain:** Sierra de Ancaraes, Rio de la Vara, N42°48'13.13", E06°53'25.37", 24.10.2009, M. A. Gonsales (1♂, 1♀, OPC).

Annitella thuringica (Ulmer, 1909) – **Slovakia:** West Tatra, Bela River, 06.10.1976, light, Nagy (1♂, OPC).

Annitella triloba Marinkovic-Gospodnetic, 1955 – **Albania:** Periferi Malesia, 6 km S of the Vermosh junction on the Shkodër – Gushinje road, bank of Pr. i Lepushës, stream, N42°34.325", E19°44.395", 1082 m, 04.10.2005, T. Deli, V. Eröss, Z. Fehér, D. Murányi (1♂, 1♀, HNHM). Periferi Tropojë, Dragobi, 14 km N of Bajram Curri, gorge of Pr. i Thatë, N42°26.184", E19°59.079", 540 m, 06.10.2005, T. Deli, V. Eröss, Z. Fehér, D. Murányi (1♂, 3♀, HNHM). **Bulgaria:** Pirin Mts, 1.5 km E of Begovitsa hut, Begovitsa stream, N41°40'32.6", E23°26'38.8", 1930 m, 08.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (5♂, 7♀, OPC). Rila Mts, 7 km S of Beli Iskar, Beli Iskar, N42°12'11.2", E23°33'02.1", 1500 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (7♂, 11♀, OPC). Rila Mts, Borovets, Maritsa hut – Zavrachitsa hut, Prava Maritsa, N42°10'44.2", E23°38'25.8", 2015 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (15♂, 12♀, OPC). Rila Mts, Borovets, Zavrachitsa hut, Prava Maritsa, N42°10'04.9", E23°38'28.1", 2200 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (23♂, 22♀, OPC; 5♂, 3♀, MM). Rila Mts, Jazovir Belmeken

– Ropalitsa, Kazanishka Reka, N42°08'38.2", E23°40'21.8", 1910 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 2♀, OPC). Rila Mts, Ropalitsa, Ropalitsa, N42° 8'36.2", E23°40'25.5", 1910 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 6♀, OPC). **Montenegro:** Durmitor Mts, Donja Bukovica, Šuškovac, N43°00'39.1", E19°09'36.8", 1330 m, 06.11.2011, T. Kovács, G. Magos (5♂, 6♀, OPC). Durmitor Mts, Krivača, Komarnica, N42°59'36.2", E19°04'04.7", 960 m, 06.11.2011, T. Kovács, G. Magos (1♀, OPC). Durmitor Mts, Pasina Voda, Toplik, N43°05'57.5", E19°06'49.0", 1505 m, 06.11.2011, T. Kovács, G. Magos (1♂, 1♀, OPC). Durmitor Mts, Tepca, Mlinski-potok, N43°12'22.7", E19°04'32.3", 780 m, 05.11.2011, UV light, T. Kovács, G. Magos (1♂, 1♀, OPC). Kolasin-Manastir Morača, Pčinja, Pčinja, N42°47'58.6", E19°27'49.0", 1010 m, 10.11.2011, T. Kovács, G. Magos (1♂, OPC). Komovi Mts, Mateševo – Bare Kraljske, Nesirenski potok, N42°45'04.6", E19°34'23.2", 1030 m, 08.11.2011, T. Kovács, G. Magos (1♂, 1♀, OPC). Murino – Peć, Radevići, Ramšića potok, N42°41'15.2", E19°57'33.4", 1210 m, 08.11.2011, T. Kovács, G. Magos (1♂, 1♀, OPC). Sinjajevina Mts, Donji Lipovo, left side streams of Plašnica, N42°51'57.6", E19°26'26.6", 980 m, 10.11.2011, T. Kovács, G. Magos (8♂, 6♀, OPC). Sinjajevina Mts, Gornji Lipovo NW 7km, alpine grassland, N42°54.181', E19°22.933', 1643 m, 11.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (1♂, HNHM). Sinjajevina Mts, Krnja Jela, Dobro Do, Javorski potok, N42°54'02.3", E19°16'11.4", 1270 m, 07.11.2011, T. Kovács, G. Magos (2♂, 2♀, OPC). Sinjajevina Mts, Vilin Brijeg, Štitarička reka, N42°55'27.7", E19°29'17.3", 1080 m, 04.11.2011, T. Kovács, G. Magos (3♂, 3♀, OPC). Treskavac Mts, Poscenje (near Savnik), Kanjon, N42°59.298", E19°04.070, 950 m, 11.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (1♂, HNHM).

Chaetopteroides Kumanski, 1987

Chaetopteroides bulgaricus (Kumanski, 1969) – **Bulgaria:** Rila Mts, Borovets, Zavrachitsa hut, Prava Maritsa, N42°10'04.9", E23°38'28.1", 2200 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC). Pirin Mts, 950 m S of Demianitsa hut, left side brook of Vályavitsa stream, N41°44'02.6" E23°28'03.1", 2020 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (5♀, OPC; 1♂, 1♀, MM). Pirin Mts, 1.5 km E of Begovitsa hut, Begovitsa stream, N41°40'32.6" E23°26'38.8", 1930 m, 08.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, OPC).

Chaetopteroides maximus Kumanski, 1968 – **Bulgaria:** Vitosha Mts, spring and brook 200 m E of Rodina hut, N42°37'09.6", E23°15'32.3", 1600 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♀, OPC). Vitosha Mts, Lavchemo, Boyanska Reka, N42°34'34.6" E23°16'57.7", 2050 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 3♀, OPC; 1♂, 1♀, MM).

Chaetopterygopsis Stein, 1874

Chaetopterygopsis maclachlani Stein, 1874 – **Bulgaria:** Rila Mts, 7 km S of Beli Iskar, Beli Iskar, N42°12'11.2", E23°33'02.1", 1500 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, OPC). Rila Mts, Sestrimo – Jazovir Belmeken, Kriva Reka, N42°12'08.3", E23°51'20.0", 1230 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (5♂, 3♀, OPC; 3♂, 1♀, MM). Vitosha Mts, Zlatni mostove – Boeritsa, Vladayska Reka, N42°35'50.3", E23°14'49.7", 1650 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 1♀, OPC). **Czech Republic:** Žďarske vrchy, Heralec, stream Bøimovka, 720 m, 27.09.2000, B. Horvat, I. Sivec (1♂, OPC). **Romania:** Apuseni Mts, Padis, open stream near pine forested sphagnum bog, N46°35'20.632", E22°45'54.857", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (6♂, 5♀, OPC). Apuseni Mts, Stána de Vale, open small stream, N46°41'20.004", E22°37'29.2627", 06.11.2011, Gy. Monori, J. Oláh, L. Szél (2♂, OPC). Caraș-Severin county, Semenic Mts, open brook E of Mt. Piatra Goznei, N45°10'55.4", E22°04'01.4", 1340 m, 15.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 2♀, OPC). **Slovenia:** Pohorje Mts, below Pesek, spring area of river Oplotnica, N46°28'24.8", E15°20'55.9", 1345 m, 28.09.2012, I. Sivec (1♂, 2♀, OPC); 19.10.2012, B. Horvat, I. Sivec (6♂, 5♀, OPC). Pohorje Mts, Pesek (284/4), N46°28'26.3", E15°20'55.9", 09.10.2010, I. Sivec (1♂, OPC).

Chaetopterygopsis sisestii Botosaneanu, 1961 – **Bulgaria:** Rila Mts, Jazovir Belmeken, Ribnitsa, N42°09'44.3", E23°47'01.3", 1950 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC). Rila Mts, 7 km S of Beli Iskar, Beli Iskar, N42°12'11.2", E23°33'02.1", 1500 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 1♀, OPC; 1♂, 1♀, MM). **Romania:** Ciucaș Mts, Vama Buzăului – Dălghiu (4.5 km SE Dălghiu), left side stream of Dălghiu stream, N45°35'42.3", E25°57'03.2", 830 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC).

Chaetopteryx biloba Botosaneanu, 1960 – **Romania**: Apuseni Mts, Padis N. P. Varasoia, open stream, N46°36'31.122", E22°42'48.294", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (1 ♂, OPC). Apuseni Mts, Valea lui Dragan, N46.8046°, E22.7075°, 1050 m, 20.11.2008, M. Bálint, Tasnádi (1 ♀, OPC; 1 ♂, MM). Caraș-Severin county, Țarcu Mts, open brook on the W slope of Mt. Țarcu, N45°17'30.9", E22°30'59.9", 1770 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♂, OPC).

Chaetopteryx bosniaca Marinkovic-Gospodnetic, 1955 – **Bulgaria**: Rila Mts, Jazovir Belmeken, Ribnitsa, N42°09'44.3", E23°47'01.3", 1950 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4 ♂, OPC), Rila Mts, Ropalitsa, Ropalitsa, N42°08'36.2", E23°40'25.5", 1910 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♀, OPC), Rila Mts, Tiha Rila – Dolno Ribno ezero, Rilska Reka, N42°07'32.7", E23°29'33.5", 2140 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, OPC). Vitosha Mts, spring and brook 200 m E of Rodina hut, N42°37'09.6", E23°15'32.3", 1600 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♂, OPC). **Macedonia**: Ograzden Mts, Beech forest with a brook at the Prevedena Pass, N41°33'57.6", E22°50'38.6", 1167 m, 18.10.2006, L. Dányi, J. Kontschán, D. Murányi (1 ♂, HNHM). Pelister Mts, Nizepole, brooks in alpine grasslands and beech forest around the sky course, N40°58'48.7", E21°15'09.9", 1375 m, 17.10.2006, L. Dányi, J. Kontschán, D. Murányi (1 ♂, HNHM). **Montenegro**: Durmitor Mts, Donja Bukovica, Šuškovac, N43°00'39.1", E19°09'36.8", 1330 m, 06.11.2011, T. Kovács, G. Magos (2 ♂, 2 ♀, OPC). Durmitor Mts, Krivača, Komarnica, N42°59'36.2", E19°04'04.7", 960 m, 06.11.2011, T. Kovács, G. Magos (1 ♂, OPC). Durmitor Mts, Pasina Voda, Toplik, N43°05'57.5", E19°06'49.0", 1505 m, 06.11.2011, T. Kovács, G. Magos (3 ♂, 3 ♀, OPC). Durmitor Mts, Polje Perovića, Glava Bukovice, N43°03'25.3", E19°06'43.6", 1350 m, 06.11.2011, T. Kovács, G. Magos (2 ♂, 1 ♀, OPC). Murino – Peć, Čakor W, Krlje, forest torrent, N42°40'41.1", E19°59'46.7", 1480 m, 08.11.2011, T. Kovács, G. Magos (3 ♂, 3 ♀, OPC). Prokletije Mts, Gornji Vusanje, Skavkač, N42°30'47.2", E19°50'12.8", 1025 m, 08.11.2011, T. Kovács, G. Magos (4 ♂, 4 ♀, OPC). Sinjajevina Mts, Bistrica, Ljevak, Rijeka, N42°59'15.1", E19°26'02.6", 847 m, 04.11.2011, T. Kovács, G. Magos (2 ♂, 2 ♀, OPC). Sinjajevina Mts, Bogomolje, mouth of Ljutica, N43°08'16.6", E19°18'07.7", 645 m, 05.11.2011, T. Kovács, G. Magos (1 ♂, 1 ♀, OPC). Sinjajevina Mts, Donji Lipovo, left side streams of Plašnica, N42°51'57.6", E19°26'26.6", 980 m, 10.11.2011, T. Kovács, G. Magos (1 ♂, 1 ♀, OPC). Sinjajevina Mts, Gornji Štitarica, right side sprigs of Štitarička reka, N42°55'14.9", E19°29'59.4", 1040 m, 04.11.2011, T. Kovács, G. Magos (6 ♂, 6 ♀, OPC; 4 ♂, 3 ♀, MM). Sinjajevina Mts, Pass of the Savnik – Kolasin road, outflow book of a peatbog, N42°54.541', E19°16.271', 1587 m, 10.10.2008, L. Dányi, Z. Fehér, J. Kontschán, D. Murányi (2 ♂, HNHM); 07.11.2011, T. Kovács, G. Magos (1 ♀, OPC). **Romania**: 13 km from Baile Herculane, upper section of a small tributary to River Cerna, N44°59'10.34", E22°30'46.91", 13.11.2010, singled, Á. Ecsedi, I. Szivák (1 ♀, OPC). 24 km from Baile Herculane, spring area of a small tributary to River Cerna, N45°02'32.14", E22°35'3.36", 13.11.2010, singled, Á. Ecsedi, I. Szivák (2 ♂, 2 ♀, OPC). 31 km from Baile Herculane, a small tributary to River Cerna, N45°02'44.88", E22°37'21.67", 13.11.2010, singled, Á. Ecsedi, I. Szivák (1 ♂, 1 ♀, OPC). Apuseni Mts, Padis N. P. Varasoia, open stream, N46°36'31.122", E22°42'48.294", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (1 ♂, OPC). Apuseni Mts, Padis N.P. small side stream of Galbina stream, N46°33'31.898", E22°32'54.751", 06.11.2011, Gy. Monori, J. Oláh, L. Szél (2 ♂, OPC). Apuseni Mts, Padis, open stream near pine forested sphagnum bog, N46°35'20.632", E22°45'54.857", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (13 ♂, 7 ♀, OPC). Apuseni Mts, Padis, small stream in pine forested sphagnum bog, N46°35'36.528", E22°45'54.751", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (1 ♂, OPC). Apuseni Mts, Suncuius, near Izbandis spring, 26.10.2009, light, M. Bálint, J. Oláh (1 ♂, 1 ♀, OPC). Apuseni Mts, Suncuius, tributary stream of Sebes Körös, 26.10.2009, singled, M. Bálint, J. Oláh (5 ♂, 4 ♀, OPC). Apuseni Mts, Valea lui Dragan, N46.83119°, E22.77093°, 650 m, 20.11.2008, M. Bálint, Tasnádi (1 ♂, OPC). Caraș-Severin county, Semenic Mts, Brebu Nou, open stream E of the village, N45°14'01.8", E22°08'40.6", 860 m, 15.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, 2 ♀, OPC). Caraș-Severin county, Semenic Mts, open brook E of Mt. Piatra Goznei, N45°10'55.4", E22°04'01.4", 1340 m, 15.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4 ♂, 2 ♀, OPC). Caraș-Severin county, Țarcu Mts, open stream with Salix bushes 6 km S of Poiana Mărului, N45°20'47.5", E22°31'04.6", 1000 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♂, 2 ♀, OPC). Caraș-Severin county, Țarcu Mts, spring and its outlet at Cuntu Meteorological Station, N45°18'00.2", E22°30'04.3", 1465 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, 1 ♀, OPC). Ciucaș Mts, Vama Buzăului – Dălghiu, mouth of left side stream of Dălghiu stream, N45°35'18.1", E25°57'58.6", 810 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♀, OPC). Gorj county, Mts Valcan, Arcani, at hotel, N45°07', E23°08', 940 m, 31.10.2007, Cs. Csuzdi, J. Kontschán, V. V. Pop (3 ♂, 3 ♀, HNHM). Maramureș county, Muntii Ignis, Desești-Stațiunea Izvoare, forest spring and spring brook at settlement, N47°45.167', E23°43.013', 920 m, 20-22.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (8 ♂, 2 ♀, OPC). Maramureș county, Muntii

Ignis, Desești-Stațiunea Izvoare, open stream on the Valhani Plateau, N47°43.945', E23°44.661', 940 m, 08.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (8♂, 3♀, OPC). **Serbia:** Đerdap Mts, Mosna, stream valley with oak forest at the edge of the village, N44°26'46.6", E22°10'38.0", 99 m, 12.10.2006, L. Dányi, J. Kontschán, D. Murányi (6♂, HNHM). Fruska Gora, Sremska Kamenica – Irig, stream, N45°10'40.3", E19°50'14.7", 200 m, 11.11.2011, T. Kovács, G. Magos (8♂, 9♀, OPC; 5♂, 4♀, MM). Zlatibor Mts, Čigota Mts, spring area of Crni Rzav, N43°37'52.6", E19°46'18.0", 1150 m, 03.11.2011, T. Kovács, G. Magos (7♂, 6♀, OPC); 20.11.2011, T. Kovács, Cs. Oberczán (1♂, 2♀, OPC).

Chaetopteryx fusca Brauer, 1857 – **Croatia:** Čabranka spring, N45°36'04.8", E14°38'40.5", 19.11.2008, I. Sivec (2♂, 2♀, OPC). Zumberacka Mts, Čunkova Draga, Kupčina, N45°41'39.7", E15°29'24.3", 175 m, 07.11.2012, T. Kovács, G. Magos (2♂, 1♀, OPC). **Hungary:** Bükk Mts, Diós-patak, 02.11.2010, L. Fülep (1♂, OPC). Bükk Mts, Felsőtárkány, Szikla-forrás, 23.10.2005, D. Murányi (1♂, 1♀, HNHM). Bükk Mts, Szalajka-völgy, 07.10.1964, singled, J. Oláh (4♂, 5♀, OPC). Bükk Mts, Szinvva-patak, Rózsa-forrás, 11.11.2010, L. Fülep (1♂, OPC). Cserhát Mts, Zsunyi-patak völgye, 22.10.2005, D. Murányi (1♀, HNHM). Diósjenő, 08.10.1991, light trap (6♂, OPC). Hegyhátszentjakab, Vadása-tó, források, N46°52'32", E16°33'03", 04.11.2010, singled, J. Oláh, Á. Uherkovich (1♀, OPC). Jósavfő, Kecső-patak, 15.10.1963, singled, J. Oláh (14♂, 5♀, OPC). Mátra Mts, Kékestető, Kékes-völgy patakja a Sas-kő alatt, N47°52'12.3", E20°01'22.2", 790 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♂, OPC). Mátra Mts, Máraszentimre, Gazoni-kanyar, Narád-patak, N47°55'01.4", E19°53'09.4", 827 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♂, OPC). Mátra Mts, Mátraalmás, Verbőczy-kút, Szuhai-patak Ny-i ága, N47°55'13.9", E19°55'00.9", 829 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♂, 1♀, OPC). Mátra Mts, Mátrafüred, Bukfenc-kút, N47°50'57.7", E19°59'03.8", 519 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♀, OPC; 2♂, 2♀, MM). Mátra Mts, Mátrafüred, Ördög-forrás, Csatorna-patak, N47°50'18.3", E19°58'34.0", 421 m, 28.10.2011, singled, T. Kovács (2♂, OPC); 16.11.2011, singled, T. Kovács (1♀, OPC); 21.11.2012, singled, T. Kovács (1♀, OPC). Mátra Mts, Mátraháza, Honvéddűlő, Hidas-patak, N47°52'33.0", E19°59'12.4", 686 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♀, OPC). Mátra Mts, Mátraháza, Szent László-forrás, Somor-patak Ny-i mellékága, N47°52'02.6", E19°58'52.5", 708 m, 22.11.2012, singled, T. Kovács, G. Magos, L. Urbán (1♂, 1♀, OPC). Mátra Mts, Parád, Disznó-tető, Ilona-patak, N47°53'01.0", E20°03'34.0", 396 m, 28.09.2011, singled, T. Kovács, G. Magos, J. Oláh (1♀, OPC). Pécsly, Zádor-kút, N46°58'25.79", E17°46'23.41", 301 m, 27.11.2011, A. Déry, I. Szivák (9♂, 1♀, OPC). Szőce, Szőce-patak, N46°53'59", E16°34'24", 04.11.2010, singled, J. Oláh, Á. Uherkovich (6♂, 5♀, OPC). Zemplén Mts, Telkibánya, 19.10.1982, light, J. Oláh (9♂, 1♀, OPC). **Slovakia:** Banskobystrický region, Zvolenská kotlina, Lieskovec, Hučava Stream above the village, N48°35.430', E19°12.157', 315 m, 18.04.2012, from spider web, T. Kovács, D. Murányi, T. Szederjesi (2♂, OPC). Javoros Mts, Blyskovica, stream Tisovník, 657 m, 20.10.2005, D. Murányi (3♂, 2♀, HNHM). **Slovenia:** Bosljiva Loka, Mirtovički stream, 30.10.2011, I. Sivec (1♂, OPC). Ljubljana, Malo Trebeljevo, sidestream of stream Besnica, N46°01'08.38", E14°42'55.69", 449 m, 25.10.2012, I. Sivec (2♂, OPC). Postojni, 01.12.2011, I. Sivec (1♂, OPC). Predvor, 12.11.2011, I. Sivec (1♂, OPC). Radovna, Novakov Rovt, N46°23'41.31", E14°00'20.23", 15.11.2009, I. Sivec (4♂, 3♀, OPC). Vrhnik pri Ložu, spring of Veliki Obrh, N45°41'59.50", E14°30'41.13", 04.11.2008, I. Sivec (2♂, OPC).

Chaetopteryx gonospina Marinkovic-Gospodnetic, 1966 – **Bosnia & Herzegovina:** Banja Luka region, Kozara Mts, forest brook below the Vrbaška – Kozarac road, 45°02.480', 16°54.266', 560 m, 07.11.2012, T. Kovács, G. Magos (1♀, OPC). **Montenegro:** Komovi Mts, Mateševo – Bare Kraljske, Nesirenski potok, 42°45'04.6", 19°34'23.2", 1030 m, 08.11.2011, T. Kovács, G. Magos (1♂, 1♀, OPC; 1♂, MM). Sinjajevina Mts, Gornji Šitarica, right side sprigs of Štitarička reka, 42°55'14.9", 19°29'59.4", 1040 m, 04.11.2011, T. Kovács, G. Magos (1♂, OPC).

Chaetopteryx lusitanica Malicky, 1974 – **Spain:** Rio San Lázaro (Cabeza de Manzaneda), N42°16.631', E7°16.815', 1405 m, 28.09.2011, M. Sainz-Bariáin (1♂, OPC).

Chaetopteryx major McLachlan, 1876 – **Austria:** Aspang Markt, Unteraspang, stream in the valley Hottmannsgraben, N47°34'40.4", E16°03'46.2", 587 m, 19.11.2009, A. Déry, I. Szivák (1♀, OPC). **Croatia:** Gerovčica spring, N45°31'43.96", E14°40'36.63", 29.10.2009, I. Sivec (1♀, OPC). Krndija Mts, 3km N of Kutjevo, Velika rijeka tributary, N45°27'55", E17°52'37", 26.11.2012, Á. Uherkovich (1♂, OPC). Krndija Mts, 6 km N of Kutjevo, Velika rijeka, springs, N45°28'59", E17°51'33", 580 m, 04.11.2011, Á. Uherkovich (1♂, OPC); 06.11.2012, T. Kovács, G. Magos (2♂, 1♀, OPC; 1♂, 1♀, MM). Krndija Mts, Gradac Nasicki, Gradac Pass, N45°25'27", E18°00'28", 223 m, 04.11.2011, Á. Uherkovich (1♀, OPC). Velika, Sastavi, Zaagradka rijeka, N45°29'33", E17°39'11", 482 m, 03.11.2012, Á. Uherkovich (1♀, OPC). **Hungary:** Erdősmecke, 25-27.10.1983, light trap, J. Oláh (13♂, OPC). Hosszúhetény, Kisújbánya, Pásztor-forrás, N46°13'04", E18°21'27", 06.11.2009, I. Szivák, Á. Uherkovich (1♀, OPC); 05.11.2010, singled, I. Szivák, J. Oláh, Á. Uherkovich (5♂, OPC). Hegyhátszentjakab, Vadása-tó, források, N46°52'32", E16°33'03", 04.11.2010, J. singled, Oláh, Á. Uherkovich (1♀, OPC). Pécs, Éger-völgy, N46°05'38",

E18°10'28", 01.11.2010, Á. Uherkovich (1♀, OPC). **Slovenia:** Pohorje, Pesek (284/4), N46°28'26.3", E15°20'55.9", 09.10.2010, I. Sivec (1♀, OPC). Srednji Vrh, potok Hladnik, N46°30'22.07", E13°52'54.35", 09.09.2009, I. Sivec (1♂, OPC). Tržič, Brezje at Tržič, stream Blajšnica, N46°21'46.06", E14°17'00.31", 646 m, 16.11.2012, B. Horvat, I. Sivec (1♀, OPC).

Chaetopteryx polonica Dziedzielewicz, 1889 – **Romania:** Borsa, 26.09.1992, singled, J. Oláh (1♂, OPC). Maramureş county, Ignis Mts, Deseşti-Staţiunea Izvoare, forest spring and spring brook at settlement, N47°45.167', E23°43.013', 920 m, 20-22.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (18♂, 6♀, OPC; 4♂, 2♀, MM). Maramureş county, Ignis Mts, Deseşti-Staţiunea Izvoare, open brook on the Valhani Plateau, N47°43.015', E23°44.547', 1020 m, 07.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (1♂, OPC). Maramureş county, Ignis Mts, Deseşti-Staţiunea Izvoare, open stream on the Valhani Plateau, N47°43.945', E23°44.661', 940 m, 08.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (1♂, OPC). Maramureş county, Ignis Mts, Desesti-Statiunea Izvoare, sidebrook of the Mara River at the building dam, N47°47'49.1", E23°46'27.8", 724 m, 27.09.2006, L. Dányi, J. Kotschán, D. Murányi (2♂, HNHM). Maramureş county, Maramureş Mts, Borsa-Baile Borsa, brook over the village, N47°40'21.5", E24°50'16.7", 1046 m, 26.09.2006, L. Dányi, J. Kotschán, D. Murányi (2♂, HNHM). **Slovakia:** Javoros Mts, Blyskovica, forest brook, 650 m, 20.10.2005, L. Dányi, D. Murányi (6♂, 4♀, HNHM).

Chaetopteryx sahlergi McLachlan, 1876 – **Romania:** Ciucaş Mts, Vama Buzăului – Dălgheu (4.5 km SE Dălgheu), left side stream of Dălgheu stream, N45°35'42.3", E25°57'03.2", 830 m, 13.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, 2♀, OPC; 2♂, 1♀, MM).

Chaetopteryx stankovici Marinkovic-Gospodnetic, 1966 – **Bulgaria:** Rila Mts, 7 km S of Beli Iskar, Beli Iskar, N42°12'11.2", E23°33'02.1", 1500 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, 2♀, OPC). Rila Mts, Borovets, Bistritsa, Musalenska Bistritsa, N42°15'49.3", E23°35'53.2", 1330 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (8♂, 4♀, OPC). Rila Mts, Jazovir Belmeken, Ribnitsa, N42°09'44.3", E23°47'01.3", 1950 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, 1♀, OPC). Rila Mts, Rilski Manastir, Malka Drusljavitsa, N42°07'58.4", E23°20'28.7", 1130 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, 4♀, OPC; 3♂, 2♀, MM). Rila Mts, Sestrimo – Jazovir Belmeken, Kriva Reka, N42°12'08.3", E23°51'20.0", 1230 m, 05.10.2011, UV light, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 1♀, OPC). Rila Mts, Sestrimo – Jazovir Belmeken, Kriva Reka, N42°12'08.3", E23°51'20.0", 1230 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (8♂, 3♀, OPC). Rila Mts, Tiha Rila – Dolno Ribno ezero, Rilska Reka, N42°07'32.7", E23°29'33.5", 2140 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, 1♀, OPC). Vitoshka Mts, Boyanska stream 240 m S of Rodina hut, N42°37'01.2", E23°15'23.5", 1620 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 1♀, OPC). Vitoshka Mts, Kladnitsa, Golemo gradishte, Mamnitsa, N42°33'14.1", E23°11'42.5", 1050 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♀, OPC). Vitoshka Mts, Kladnitsa, Sv. Nikola, Tanchovitsa, N42°34'02.9", E23°11'41.4", 1100 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (6♂, 2♀, OPC); 03.10.2011, UV light, Á. Ecsedi, T. Kovács, G. Puskás (7♂, 2♀, OPC). Vitoshka Mts, KV. Dragalevtsi – Aleko, Dragalevska Reka, N42°36'31.1", E23°17'45.8", 1250 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (5♂, 3♀, OPC). Vitoshka Mts, Lavchemo, Boyanska Reka, N42°34'34.6", E23°16'57.7", 2050 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, OPC). Vitoshka Mts, Zlatni mostove, Vladayska Reka, N42°36'35.4", E23°14'17.9", 1400 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, OPC). **Macedonia:** Pelister Mts, Brajcino, Brajcino stream and mixed forest below the village, N40°54'08.0", E21°09'21.8", 984 m, 16.10.2006, L. Dányi, J. Kotschán, D. Murányi (2♂, ♂♀ in copula, HNHM). Pelister Mts, Nizepole, brooks in alpine grasslands and beech forest around the sky course, N40°58'48.7", E21°15'09.9", 1375 m, 17.10.2006, L. Dányi, J. Kotschán, D. Murányi (1♂, 1♀, HNHM). Pelister Mts, Nizepole, Sapuncica stream and softwood gallery above the village, N40°59'17.7", E21°14'47.6", 1253 m, 17.10.2006, L. Dányi, J. Kotschán, D. Murányi (1♂, HNHM). **Montenegro:** Murino – Peć, Radevići, Ramšića potok, 42°41'15.2", 19°57'33.4", 1210 m, 08.11.2011, T. Kovács, G. Magos (2♂, OPC). Sinjajevina Mts, Krnja Jela, Dobro Do, Javorski potok, 42°54'02.3", 19°16'11.4", 1270 m, 07.11.2011, T. Kovács, G. Magos (5♂, 4♀, OPC). Velika E, Murino 17 km toward Čakor-pass, forest torrent in mixed pine forest, N42°40.685', E19°59.779', 1476 m, 05.10.2005, D. Murányi (1♂, HNHM).

Chaetopteryx subradiata Klapálek, 1907 – **Romania:** Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, forest spring at settlement, N47°45.167', E23°43.013', 920 m, 08.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (3♀, OPC); 21.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (1♀, OPC). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, open brook on the Valhani Plateau, N47°43.015', E23°44.547', 1020 m, 07.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (1♀, OPC). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, side valley stream along the road between Firiza and Statiunea Izvoare, 500 m, 21.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (1♂, OPC).

Chaetopteryx villosa Fabricius, 1798 – **Germany:** Schlitz, Breitenbach, N50°39', E09°38', 10-11.2011, emergence trap, R. Wagner (53♂, 30♀, OPC; 5♂, 2♀, MM). **Slovakia:** High Tatra, Poprad lake outflow, 07.10.1976, light, Nagy (1♂, OPC).

Pseudopsilopteryx zimmeri (McLachlan, 1876) – **Austria**: Saualpe, upper section of a small tributary to the stream Löllingbach, N46°55'58.61", E14°38'48.62", 1342 m, 13.10.2011, A. Déry, I. Szivák (1♀, OPC). **Slovenia**: Pohorje Mts, Osankarica, small brooklet, N46°27'18.19", E15°25'28.41", 1212 m, 09.10.2011, A. Déry, I. Szivák (1♀, OPC). Pohorje Mts, brooklet near Rogla, N46.448280°, E15.339671°, 1350 m, 03.12.2011, A. Déry, I. Szivák (1♀, OPC). Pohorje Mts, below Pesek, spring area of river Oplotnica, N46°28'24.8", E15°20'55.9", 1345 m, 19.10.2012, B. Horvat, I. Sivec (5♂, 1♀, OPC); 08.11.2012, T. Kovács, G. Magos, I. Sivec (3♂, 1♀, OPC; 1♂, 1♀, MM). Žirovnica, River Završnica, N46°24'12.83", E14°10'51.04", 752 m, 16.11.2012, B. Horvat, I. Sivec (1♂, 1♀, OPC).

Psilopteryx Stein, 1874

Psilopteryx curvicolavatus Botosaneanu, 1957 – **Romania**: Apuseni Mts, Padis, open stream near pine forested sphagnum bog, N46°35'20.632", E22°45'54.857", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (1♂, OPC). Apuseni Mts, Padis, small stream in pine forested sphagnum bog, N46°35'36.528", E22°45'54.751", 05.11.2011, Gy. Monori, J. Oláh, L. Szél (2♂, OPC). Apuseni Mts, Stána de Vale, open small stream, N46°41'20", E22°37'29", 06.11.2011, Gy. Monori, J. Oláh, L. Szél (1♂, OPC). Apuseni Mts, Valea lui Dragan, N46°8'046', E22°7'075', 1050 m, 20.11.2008, M. Bálint, Tasnádi (6♂, 1♀, OPC; 2♂, MM).

Psilopteryx montanus Kumanski, 1968 – **Bulgaria**: Rila Mts, Borovets, Bistritsa, Musalenska Bistritsa, N42°15'49.3", E23°35'53.2", 1330 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 1♀, OPC). Rila Mts, Jazovir Belmeken – Ropalitsa, left side stream of Leevshitsa, N42°07'43.3", E23°42'13.1", 1770 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2♂, 2♀, OPC; 1♂, 1♀, MM). Rila Mts, Ropalitsa, Ropalitsa, N42°8'36.2", E23°40'25.5", 1910 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, OPC). Vitosha Mts, Boyanska stream 240 m S of Rodina hut, N42°37'01.2", E23°15'23.5", 1620 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, 2♀, OPC). Vitosha Mts, KV. Dragalevtsi – Aleko, Prostor, Yanchovska Reka, N42°35'18.5", E23°17'53.9", 1650 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, 2♀, OPC). Vitosha Mts, Lavchemo, Boyanska Reka, N42°34'34.6", E23°16'57.7", 2050 m, 04.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, 1♀, OPC). Vitosha Mts, Zlatni mostove – Boeritsa, Vladayska Reka, N42°35'50.3", E23°14'49.7", 650 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3♂, OPC). Vitosha Mts, Zlatni mostove, Vladayska Reka, N42°36'35.4", E23°14'17.9", 1400 m, 03.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4♂, OPC). **Macedonia**: Pelister Mts, Nizepole, brooks in alpine grasslands and beech forest around the sky course, 1375 m, N40°58'48.7", E21°15'09.9", 17.10.2006, L. Dányi, J. Kontschán, D. Murányi (1♂, 1♀, HNHM).

Psilopteryx psorosa carpathica Schmid, 1952 – **Romania**: Maramureş county, Rodna Mts, Borsa-Statiunea Borsa, stream along the road towards Prislop Pass, N47°37'34.0", E24°49'13.0", 1014 m, 26.09.2006, L. Dányi, J. Kontschán, D. Murányi (1♂, HNHM).

Psilopteryx psorosa gutinensis Mey & Botosaneanu, 1985 – **Romania**: Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, brook in bushy edge on the Valhani Plateau, N47°44.374', E23°43.331', 930 m, 08.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (1♀, OPC). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, open brook on the Valhani Plateau, N47°43.015', E23°44.547', 1020 m, 07.10.2010, P. Barcănfalvi, D. Murányi, J. Oláh (1♂, OPC). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, open brook on the Valhani Plateau, N47°43.015', E23°44.547', 1020 m, 21.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (1♂, 1♀, OPC). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, open spring brook at settlement, N47°45.167', E23°43.013', 920 m, 22.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (2♂, 1♀, OPC; 1♂, MM). Maramureş county, Muntii Ignis, Deseşti-Staţiunea Izvoare, side valley spring brook along the road between Firiza and Statiunea Izvoare, 600 m, 22.10.2010, Á. Ecsedi, J. Oláh, I. Szivák (1♂, 1♀, OPC).

Psilopteryx psorosa psorosa (Kolenati, 1860) – **Czech Republic**: Jeseníky, Ovčárna, source of Bilá Opava, 1100 m, 24.09.2000, B. Horvat, I. Sivec (8♂, 1♀, OPC; 2♂, MM).

Psilopteryx psorosa retezatica Botosaneanu & Schneider, 1978 – **Romania**: Caraş-Severin county, Ţarcu Mts, left side brook of open stream on the N slope of Mt. Ţarcu, N45°17'40.7", E22°31'44.5", 1500 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1♂, OPC). Caraş-Severin county, Ţarcu Mts, spring and its outlet at Cuntu Meteorological Station, N45°18'00.2", E22°30'04.3", 1465 m, 14.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (14♂, 6♀, OPC; 5♂, 2♀, MM). Retezat Mts, Gura Apelor, N45°33', E22°88', 1500 m, 20.10.2007, M. Bálint, M. Braun, E. Magyari (23♂, 13♀, OPC).

Psilopteryx psorosa transsylvanica Mey & Botosaneanu, 1985 – **Romania**: Maramures county, Maramures Mts, Borsa-Baile Borsa, brook over the village, N47°40'21.5", E24°50'16.7", 1046 m, 26.09.2006, L. Dányi, J. Kontschán, D. Murányi (1 ♂, HNHM).

Psilopteryx schmidi Kumanski, 1970 – **Bulgaria**: Pirin Mts, 0.5 km S of Begovitsa hut, Kriva Reka, N41°40'05.6", E23°25'40.4", 1750 m, 08.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (12 ♂, 6 ♀, OPC). Pirin Mts, 1.5 km E of Begovitsa hut, Begovitsa stream, N41°40'32.6", E23°26'38.8", 1930 m, 08.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (41 ♂, 20 ♀, OPC). Pirin Mts, 2 km E of Begovitsa hut, left side brook of Begovitsa stream, N41°40'29.3", E23°26'58.5", 2000 m, 08.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (11 ♂, 14 ♀, OPC; 5 ♂, 3 ♀, MM). Pirin Mts, 950 m S of Demianitsa hut, left side brook of Valyavitsa stream, N41°44'02.6", E23°28'03.1", 2020 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (3 ♂, 1 ♀, OPC). Pirin Mts, Bansko – Demianitsa hut, Karkamska Voda, N41°45'37.6", E23°27'45.4", 1720 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (10 ♂, 14 ♀, OPC). Pirin Mts, Demianitsa hut, Vasilashki Potok, N41°44'33.9", E23°28'04.8", 1900 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♂, 2 ♀, OPC). Rila Mts, Borovets, Maritsa hut – Zavrachitsa hut, Prava Maritsa, N42°10'44.2", E23°38'25.8", 2015 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (5 ♂, 4 ♀, OPC). Rila Mts, Borovets, Maritsa hut, left side stream of Maritsa, N42°11'20.2", E23°38'22.8", 1829 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (13 ♂, 7 ♀, OPC). Rila Mts, Borovets, Zavrachitsa hut, Prava Maritsa, N42°10'04.9", E23°38'28.1", 2200 m, 05.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (4 ♂, 4 ♀, OPC). Rila Mts, Ezero Vira – Tiha Rila, Rilska Reka, N42°08'20.5", E23°27'52.3", 1935 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♀, OPC). Rila Mts, Jazovir Belmeken – Jundola, Chakaritsa, spring and brook, N42°07'41.2", E23°47'33.7", 1880 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, 2 ♀, OPC). Rila Mts, Jazovir Belmeken – Ropalitsa, left side stream of Leevshitsa, N42°07'43.3", E23°42'13.1", 1770 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, 1 ♀, OPC). Rila Mts, Ropalitsa, Ropalitsa, N42°8'36.2", E23°40'25.5", 1910 m, 06.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (2 ♂, 6 ♀, OPC). Rila Mts, Tiha Rila – Dolno Ribno ezero, Rilska Reka, N42°07'32.7", E23°29'33.5", 2140 m, 07.10.2011, Á. Ecsedi, T. Kovács, G. Puskás (1 ♀, OPC).

Acknowledgements: Thanks are due to Yanka VIDINOVA (Department of Hydrobiology, Institute of Zoology, Bulgarian Academy of Sciences, Sofia) and Vladimir M. PEŠIĆ (Department of Biology, Faculty of Sciences, University of Crna Gora, Podgorica) who help us during our field works in Bulgaria and Montenegro. Further thanks for helping to Miklós BALINT (Biodiversity and Climate Research Centre, Frankfurt am Main), Dávid MURÁNYI (Hungarian Natural History Museum, Budapest), Ignac SIVEC (Slovenian Museum of Natural History, Ljubljana) and Ildikó SZIVÁK (Hungarian Academy of Sciences, Centre for Ecological Research, Balaton Limnological Institute, Tihany), and to all the collectors, whose names are indicated in the data list.

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