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NEW RECORDS TO THE CADDISFLY (TRICHOPTERA) FAUNA OF SLOVENIA, II.

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Abstract - A list of nine first records to the Slovenian caddisfly fauna from different parts of the country is given. Three genera are recorded for the first time in Slovenia. Among them the genus *Beraeomyia* includes two species, *B. schmidi* and *B. hrabei*. The latter was collected in Slovenia at the most western location in Europe. The number of recorded Slovenian caddisfly species increased to 224.

KEY WORDS: Trichoptera, caddisflies, fauna, new records, Slovenia

Izvleček – NOVI PODATKI O FAVNI MLADOLETNIC (TRICHOPTERA) V SLOVENIJI, II.

Naveden je seznam devetih novih vrst v favni Slovenije, ulovljenih v različnih predelih države. Trije rodovi so bili v Sloveniji najdeni prvič, od teh rod *Beraeomyia* vključuje dve vrsti: *B. schmidi* in *B. hrabei*. Slednja je bila v Sloveniji ulovljena na najbolj zahodnem najdišču v Evropi. Število vrst mladoletnic, najdenih v Sloveniji, je naraslo na 224.

KLJUČNE BESEDE: Trichoptera, mladoletnice, favna, novi podatki, Slovenija

Introduction

In recent years caddisflies were studied more intensively in Slovenia, what resulted in many published papers dealing with them (Urbanič et al., 2000a, b, c; Urbanič & Krušnik, 2002; Urbanič & Waringer, 2002a,b). A Preliminary list of Slovenian Trichoptera with 212 included species was also published by Krušnik & Urbanič (2002). In addition, 3 new records were published after that in works of Urbanič (2001) and Urbanič et al. (2002).

During the last year intensive work has continued. Many collected and determined specimens, received also from colleagues, confirmed occurrence of many new species in the Slovenian fauna.

Results and discussion

Nine new species to the fauna of Slovenia were collected in different parts of the country. 3 new species belong to the family Beraeidae, which included up to now only five species in Slovenia. The genus *Beraemyia* is new in the Slovenian fauna: *B. schmidi* Botosaneanu 1960 occurs in Italy, Dinarids and the Carpathians, whereas *B. hrabei* (Mayer 1937) is central-southeast European species (Botosaneanu & Malicky, 1978; Malicky, 1985). The latter was collected in Slovenia at the most western location in Europe. The third new representative of this family, *Beraea maurus* (Curtis 1834), is according to Botosaneanu & Malicky (1978) widespread in Europe. Two other species of genus *Beraea*, *B. pullata* (Curtis, 1834) and *B. dira* McLachlan, 1875, are more common in Slovenia, whereas *B. maurus* was collected only at one location.

Two new species belong to the families Leptoceridae and Limnephilidae, respectively. Both new *Ceraclea* species were collected at large rivers at lower elevations where also larvae were found (Urbanič, unpublished). It seems that both species occur in potamal stretches of the rivers, which are, especially in western and central Europe, quite polluted or have altered channel morphology. According to the data from Botosaneanu & Malicky (1978) both species are widespread in Europe, but checklists of western and central European countries show that *C. riparia* is rare in these regions. Both new records from the family Limnephilidae are first representatives of the genus in Slovenia. *Acrophylax zerberus* Brauer 1867 is a typical alpine species, which occurs in Europe in Alpine mountains (Botosaneanu & Malicky 1978). In Slovenia, this species was found in Julian Alps, whereas second new limnephilid representative in Slovenian fauna, *Chaetopterygopsis maclachlani* Stein 1874, was found in Pohorje. It is widespread in Europe.

Among new records, finding of *Synagapetus armatus* McLachlan 1879 is the most interesting. The species is rare in Europe and according to Botosaneanu & Malicky (1978) occurs in Carpathian mountains and in the West-Dinarids. The present knowledge of its distribution shows that the population in Slovenia is isolated. The species does occur in Hungary, but only in the north-eastern (Carpathian) part (Kiss 2000). All other checklists of our neighbouring countries, eg. Austria, Italy, and Croatia, do not include this species (Malicky, 1999; Cianficconi, 2002; Kučinić-personal communication). All known findings in Slovenia are from subalpine region of north-west Slovenia, from small streams between 400 and 600 m a.s.l., and are according to Illies (1978) parts of the region 4 (Alps). The last new record to the Slovenian fauna, *Rhyacophila obliterata* McLachlan 1863, is widespread in Europe. According to Pitsch (1993), it occurs in streams under 1000 m a.s.l., at least in central Europe. However, in Slovenia the species was found at a higher elevation.

List of new records

Rhyacophilidae

1. *Rhyacophila obliterata* McLachlan 1863

Distribution: widespread in Europe

Stream Oplotnica, Jurgovo, Pohorje, 1060 m, WM 24, 28.10. 1989, 1♂, leg. I. Sivec

Glossosomatidae

2. *Synagapetus armatus* McLachlan 1879

Distribution: Carpathian and West-Dinarids

Stream Češnjica, Rudno, VM 32, 07.05. 1991, 1♀; stream Jernejčkov graben, Setnik, VM 40, 18.06. 1991 4♂, leg. B.Horvat & I. Sivec

Limnephilidae

3. *Acrophylax zerberus* Brauer 1867

Distribution: Alps, Pyrenees, Carpathian, Subalpin mountains

Koča pri sedmerih jezerih, 1683 m, Triglav National park, 21.07. 1983, 1♂; 05.07. 2000 1♂, 1♀, all leg. I. Sivec

4. *Chaetopterygopsis maclachlani* Stein 1874

Distribution: widespread in Europe

Pesek, Pohorje, 1340 m, WM 24, 28.10.1989, 1♂, 1♀, leg. I. Sivec & B. Horvat

Leptoceridae

5. *Ceraclea annulicornis* (Stephens 1836)

Distribution: widespread in Europe

River Mura, Srednja Bistrica, 09.06. 2000, 1♂, 1♀, leg. G. Urbanič

6. *Ceraclea riparia* (Albarda 1874)

Distribution: widespread in Europe

Kostanjevica na Krki, 07.07 1994, 12.07. 1994 1♂, 28.07. 1994 2♂, 1♀, all leg. S. Gomboc (light-trap)

Beraeidae

7. *Beraea maurus* (Curtis 1834)

Distribution: widespread in Europe

Slovenska Bistrica, WM 44, 22.06. 1989, 1♂, leg. I. Sivec & B. Horvat

8. *Beraemyia hrabei* (Mayer 1937)

Distribution: central and south-east Europe

Stream Skrednica, Brezovica v Podbočju, WL 47, 05.07. 1990, leg. M. Černila & B. Horvat, stream Črni potok, Žerovnik, VL 50, 05.07. 1995, 1♂, leg. I. Sivec & B. Horvat; stream Grabnarica, Bormes, VM 50, 05.07. 1995, 1♂, leg. I. Sivec & B. Horvat; stream Rečica, Lipnica, 10.07.2002, 1♂, VM33, leg. G. Urbanič

9. *Beraemyia schmidi* Botosaneanu 1960

Distribution: Balkan, Carpathian mountains and Italy

River Reka, Zabiče, VL 53, 14. 05. 1992, 1♂, 1♀, leg. B. Horvat & I. Sivec, river Idrijca, Bača pri Modreju, 13.06.2002, 1♂, VM01, leg. G. Urbanič

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