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Baetis digitatus Bengtsson (Ephemeroptera) found in Finland

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Abstract

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Baetis digitatus Bengtsson, 1912 is recorded from Finland for the first time. Eight nymphal samples are listed from various parts of Finland. The imagines are difficult to distinguish from those of B. niger, but nymphs are easy to determine by the shape of the last gill.

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In his survey of the distribution of mayflies in Finland Tiensuu (1939) recorded 14 Baetis species. Since the revision of the European Baetis species by Müller-Liebenau (1969) the number of species found in Finland has been reduced to nine because of synonymizations (see also Müller-Liebe-NAU & SAVOLAINEN 1975). While checking the mayfly collection of Kuopio Museum the author (Savolainen) found eight nymphal specimens of Baetis digitatus. Saaristo also found specimens of some imagines which may represent this species in the mayfly collection of the Zoological Museum of the University of Turku. This, however, demands further confirmation and the specimens are not listed here. Baetis digitatus has not previously been recorded in Finland and the reliable Finnish specimens are as follows.

Tb, Virrat, 6911:329, Herraskoski, from aquatic mosses, 1976-08-13, 2 nymphs, J. Rossi leg. The place was a c. 30 m wide dredged rapid with moderately fast current. (Determination was verified by Dr. Ingrid Müller-Liebenau, to whom we present our cordial thanks.) Ok, Kuhmo, 7133:637, Kalliojoki, from

Ok, Kuhmo, 7133:637, Kalliojoki, from aquatic mosses and sedges, 4 nymphs, 1977-06-12, E. Savolainen leg. The river was c. 10 m wide and the current was moderately fast.

Ok, Hyrynsalmi, 7183:556, Syväjoki, from aquatic sedges, 2 nymphs, 1978-06-08, E. Savolainen and A. Miettinen leg. The river was c. 10 m wide and the current was moderately fast.

Ks, Kuusamo, 7358:596, Kitkanjoki, from aquatic mosses, one nymph, 1977-06-10, E. Sa-

volainen leg. The river was c. 30 m wide and the current was strong.

Ks, Kuusamo, 7363:605, outflow of Merenoja, from aquatic mosses, 57 nymphs, 1979-06-29, E. Savolainen leg. The river was c. 4 m wide with a moderately fast current.

Ks, Kuusamo, 7366:604, Oulankajoki, from aquatic mosses, 12 nymphs, 1977-06-08 and 3 nymphs, 1979-06-29, E. Savolainen leg. The river was c. 25 m wide and the current strong.

Li, Inari, 7698:509, a river discharging into Lake Säytsjärvi, from aquatic mosses and sedges, 2 nymphs, 1978-07-05, E. Savolainen leg. The river was shallow and c. 10 m wide with moderately fast current.

B. digitatus is very similar to B. niger which is very common in Finland. The imagines of the two species are difficult to distinguish and more studies are required to find good characteristics for their determination. On the other hand, the nymphs are easy to recognize because the hind margin of the last gill of B. digitatus is concave and there are 2—4 bristles on the upper surface of the tip of the glossa, while B. niger has an oval-shaped last gill and there are 8—20 bristles on the upper surface of the tip of the glossa (MÜLLER-LIEBENAU 1969).

The distribution and habits of B. digitatus are poorly known. It has been recorded from central Sweden (BENGTSSON 1912), from Austria and southern England (MÜLLER-LIEBENAU 1969), from southern France (MÜLLER-LIEBENAU 1974), and from Poland (Sowa 1975, KEFFERMÜLLER 1978). As the samples of B. digitatus presented here come from various parts of Finland, the species is probably spread over the whole country. However, it seems to be rarer and in smaller numbers than B. niger.

According to MÜLLER-LIEBENAU (1969) B. digitatus prefers slowly flowing waters, where the nymphs live among aquatic vegetation. Sowa (1975) mentions that the species lives in small or large rivers rich in aquatic vegetation.

The Finnish records represent differently sized rivers with a moderately fast or strong current and with few vascular plants. The nymphs, however, were collected from sheltered places from aquatic sedges and mosses.

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Selostus

Baetis digitatus, Suomeile uusi sukeitajasurvisinen

Baetis digitatus ilmoitetaan Suomelle uutena seuraavista kunnista: PH: Virrat, Kn: Kuhmo ja Hyrynsalmi, Ks: Kuusamo ja InL: Inari. Nämä kaikki löydöt ovat toukkalöytöjä.

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 Ann. Entomol. Fennici 5:97—124.

Referat

Baetis digitatus, en för Finland ny dagstända

Baetis digitatus anmäls som ny för Finland från följande orter: Tb: Virdois, Ok: Kuhmo och Hyrynsalmi, Ks: Kuusamo och Li: Enare. Alla dessa fynd är larvfynd.

Symposio — Symposium

Seventh European Drosophila Research Conference

The Conference will be held on the Linnanmaa Campus of the University of Oulu at Oulu, Finland. The Conference will be opened on Tuesday, June 30, at 9 a.m., and will end at approximately 4 p.m. on Friday, July 3. The Conference Bureau will open on the campus for registration at 12, noon Monday, June 29, 1981.

The program will consist of two or three sections, each with short reports and some invited lectures with discussions. The official language for the Conference will be English.

Participants wishing to present a short report (20 minutes including discussion) or a poster are requested to submit an abstract not exceeding one typed page to reach the Conference Secretariat (Dept. of Genetics, University of Oulu, SF-90570 Oulu 57, Finland) not later than April 15, 1981. Abstract reproduction forms will be sent out later. Also the invited lecturers are requested to submit an abstract. The abstracts of the presentations will be preprinted for distribution to the participants upon

registration. No proceedings will be published. Excursions are being planned. Some additional program will be organized for both participants and accompanying non-participating

members.

Three alternative standards of accommodation are available.

The registration fee (about FIM 300) and accomodation deposit (about FIM 100) should be paid before April 30, 1981. The account number will be given in the circular. The receipt of fees will be confirmed. Cancellations less than four weeks before the Conference can not be accepted. Otherwise the registration fee will be refunded after a deduction of FIM 50 for registration expenses.

Preliminary registration should reach the Conference Secretariat not later than October 15, 1980. A circular will be mailed to those, who have preliminary registered, by January 15,

1981.