

## A new species of mayflies *Ephemerella notata* Eaton, 1887 (Ephemeroptera, Ephemerellidae) in the fauna of Latvia

ARKĀDIJS POPPELS

Laboratory of Inland Water Problems, Latvian Fisheries Research Institute, 8 Daugavgrīvas Str., LV-1070, Rīga, Latvia; e-mail: apoppels@hotmail.com

---

POPPELS A. 2002. A NEW SPECIES OF MAYFLIES *EPHEMERELLA NOTATA* EATON, 1887 (EPHEMEROPTERA, EPHEMERELLIDAE) IN THE FAUNA OF LATVIA. – *Latv. Entomol.*, 39: 52-53.

**Abstract:** The Ephemeroptera fauna of the Gauja river basin was studied during 1998–2001. In 1998, *Ephemerella notata* Eaton, 1887 was stated new to the fauna of Latvia in the Gauja River near Velēna. In 1999 the species was also detected in the Amata River near Kārļi. Since the Ephemeroptera were found as larvae it is proved that they are indigeneous to Latvia.

**Key words:** Ephemeroptera, *Ephemerella notata*, fauna, Latvia.

---

### Introduction

In total 51 species of Ephemeroptera from 11 genera have been recorded in Latvia till this time. Three species were dated by 1864 and need conformation (Spuris, 1982).

*Ephemerella notata* was not included in the Catalogue of insects of Latvia. According literature *E. notata* Eaton, 1887 is typical species for Europe. This species is widely distributed in Southern part of Europe: in France, Greece, Macedonia, Albania, the former Yugoslavia, Bulgaria, Romania, Moldova, and Ukraine. In Northern Europe *E. notata* is common in Great Britain, Denmark, Sweden (till Stockholm) and in the European part of Russia. Till now this species has not been recorded in Baltic States.

### Material and methods

In total about of 500 samples of macroinvertebrates were sampled in the

basin of Gauja River (Central and Northern Latvia, Vidzeme region). Samples were generally taken using an entomological net and by Ekman-Berge sampler. All material was preserved in 70% alcohol. The principal taxonomic keys currently were used for identification of species (Chernova, 1964; Landa, 1969; Remm, 1970).

### Results

Species of Ephemeroptera were identified as larvae. In samples of benthos in 1998 from one locality in the Gauja River near Velēna (Gulbene district) only one specimen of *E. notata* Eaton, 1887 was found. In 1999, two specimens of this species were caught also in the Amata river near Kārļi fish breeding farm (Cēsis district) through numerous specimens of *Ephemerella ignita* Poda, 1761. It shows that *Ephemerella notata* Eaton, 1887 reproduce in Latvia and this species belongs to Latvian fauna.

## Kopsavilkums

Ephemeroptera faunas pētījumi Gaujas baseinā tika veikti no 1998–2001 gadam. Šajā laika posmā tika konstatēta Latvijai jauna viendienīšu suga *Ephemerella notata* Eaton, 1887. 1998. gadā tā tika pirmo reizi konstatēta Gaujā pie Velēnas. Atkārtoti suga konstatēta 1999. gadā Amatā pie Kārļu zivju audzētavas. Suga tika noteikta analizējot viendienīšu kāpurus. Tas norāda, ka suga vairojās Latvijā un pieskaitāma Latvijas faunai.

## References

- Chernova O. (Чернова О.) 1964. [Ephemeroptera]. - In: [Identification keys to insects of European part of USSR. 1]. Nauka, Moscow-Leningrad: 110-136 (in Russian).
- Landa V. 1969. Fauna ČSSR. Jepice-Ephemeroptera. Svazek 18. Československa Akademie věd., Praha: 1-350 (in Czech).
- Remm E. 1970. Eesti Ūhepäevikuliste (Ephemeroptera) Määrāja. - Abins Looder sevaatjejale, 60, Tartu, 1-59 (in Estonian).
- Spuris Z. 1982. Catalogue of the insects of Latvia. 3. Mayflies (Ephemeroptera). - Latv. Entomol., 25: 5-19 (in Latvian, English abstract).

Received: February 6, 2002.