

THE FIRST RECORD OF *NANOPHYES GLOBIFORMIS* KIESENWETTER, 1864 (COLEOPTERA: BRENTIDAE: NANOPHYINAE) IN EASTERN BALTIC REGION FROM ESTONIA

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Nanophyes globiformis Kiesenwetter, 1864 is reported for the first time from Estonia. One specimen of this nanophyin species was recorded in Nina (Eastern Estonia). The species is new also for the Eastern Baltic region and for Fennoscandian fauna. The general information on its morphology, distribution and bionomy is given.

Key words: Coleoptera, Brentidae, Nanophyinae, *Nanophyes globiformis*, Estonia, first record, fauna.

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INTRODUCTION

Nanophyinae Gistel, 1856 contains approximately 300 species distributed in Palaearctic, Oriental and Afrotropical regions, only few species are known from the Nearctic and Australasian regions. Nanophyids cause a serious taxonomic problem and their status varies from tribe within Brentidae or Curculionidae, subfamily within Apionidae, to a separate family (Alonso-Zarazaga & Lyal 1999, Kissinger 1968, Legalov 2010, Lohse 1983, Smreczynski 1976, Wanat 2001, Wanat & Szypuła 2008, Zimmerman 1993). According the classification of the order Coleoptera accepted by Bouchard et al. (2011), nanophyins

are considered as a subfamily of Brentidae.

Nanophyin fauna of the Eastern Baltic region and Fennoscandia is poor. There are only 4 species of this subfamily are mentioned in the catalogue “Enumeratio renovata Coleopterorum Fennoscandiae, Daniae et Baltiae” (Silfverberg 2010).

Till now three species, *Nanomimus circumscriptus* Aubé, 1864, *Nanophyes marmoratus* (Goeze, 1777) and *Microon sahlbergi* (Sahlberg, 1835), are known from Estonia (Silfverberg 2010). In the current paper *Nanophyes globiformis* Kiesenwetter, 1864 is reported for the first time from Estonia.

MATERIAL AND METHODS

The examined material is deposited in the collection of Institute of Systematic Biology, Daugavpils University (DUBC, Latvia).

The following identification guides have been used for determination of specimen: Lohse (1983), Rheinheimer & Hassler (2010), Smreczynski (1976).

The photos were taken with a Nikon digital sight ds-fil camera using a stereomicroscope Nikon SMZ 745T.

RESULTS AND DISCUSSION

During the current study *Nanophyes globiformis* Kiesenwetter, 1864 was recorded for the first time in Estonia. This species is new also for the Eastern Baltic region (Estonia, Latvia, Lithuania and the Kaliningrad region) and Fennoscandia. After this record, the Estonian fauna of Nanophyinae comprises a total of 4 species.

Curculionoidea Latreille, 1802

Brentidae Billberg, 1820

Nanophyinae Gistel, 1848

***Nanophyes* Schönherr, 1838**

***Nanophyes globiformis* Kiesenwetter, 1864**

Material examined: Estonia, Tartumaa district, Nina, 9-10.VIII.1997 (1♀, bank of Peipsijarv Lake, leg. A. Barševskis). Sampling location of species is presented in Fig. 1.

Morphology: Body of *Nanophyes globiformis* is broadly oval (Fig. 2, 3), elytra obtuse apically in dorsal view. Rostrum is long and thin, distinctly longer than head and pronotum combined, weakly curved in lateral view (Fig. 4). Pronotum is conical, transverse, with almost straight lateral sides. Lateral sides of meso- and metathorax covered with dense scales. Legs are moderately long; femora without teeth. Coloration of dorsum varies from yellow brown to dark brown. Typically basal part of elytra and elytral suture are dark, often darkened sutural band in the middle interrupted with pale spot. The body length without a rostrum is 1.4–2.2 mm (Lohse 1983, Smreczyński 1976, Zherihin 1996).

Distribution: The species is distributed in southern, western and eastern Europe, north Africa (Morocco), Russian Far East (Primorsky Krai) (Dedyukhin 2012, Legalov 2010, Lohse



Fig. 1. Locality of *Nanophyes globiformis* in Estonia: Nina.



Fig. 2-4. *Nanophyes globiformis*, female: 2 – habitus, dorsal view, 3 – habitus, lateral view, 4 – rostrum, lateral view.

1983, Zherihin 1996). The nearest to Estonia findings of this nanophyine are in Poland, where it is considered as rare species (Smreczyński 1976, Wanat & Mokrzycki 2005, Wanat & Szypuła 2008). Thus, this record of *N. globiformis* in Estonia extends its distribution range to north.

Bionomy: It is stenotopic, hygrophilous species and inhabits banks of various water bodies. This phyllophagous species is oligophag and feeds on *Lythrum salicaria* L., *L. hyssopifolia* L. and *L. acutangula* Lug. (Lythraceae). Larvae develop in stem galls (Dieckmann 1963, Koch 1992).

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