

First record of *Stagnicola fuscus* (Mollusca: Gastropoda) from the Czech Republic

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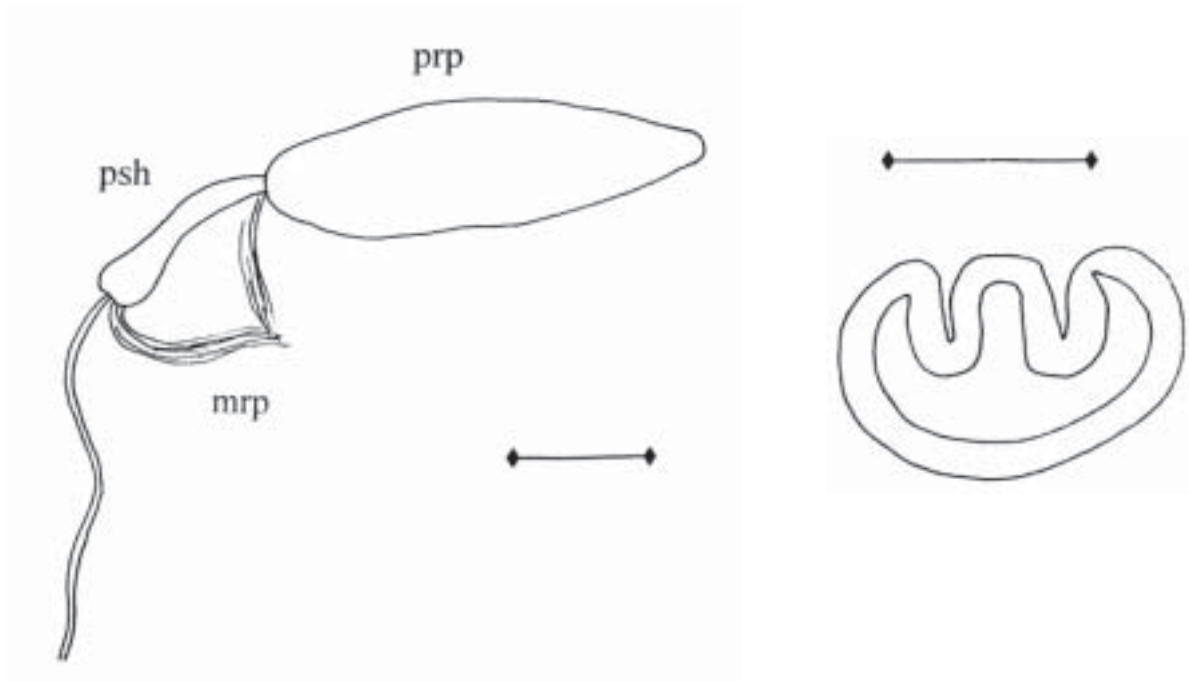
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Abstract. Additionally to the three previously known species of the genus *Stagnicola* Jeffreys, 1830 (*S. turricula* (Held, 1836), *S. occultus* (Jackiewicz, 1959), *S. corvus* (Gmelin, 1791)) from the Czech Republic, *S. fuscus* (C. Pfeiffer, 1821) is recorded from this territory for the first time.

Distribution, Mollusca, Gastropoda, *Stagnicola*, *Stagnicola fuscus*, Palearctic region

INTRODUCTION

Species *Stagnicola fuscus* (C. Pfeiffer, 1821), syn. *Lymnaea vulnerata* Küster, 1862 sensu Jackiewicz (1993) is one of five European *Stagnicola palustris* (O. F. Müller, 1774) species complex (Jackiewicz 1993). Other four species are *S. turricula* (Held, 1836), *S. occultus* (Jackiewicz, 1959), *S. corvus* (Gmelin, 1791) and *S. palustris*. The prostate with two folds seems to an important diagnostic character separating *S. fuscus* from the related species above (Fig. 2).



Figs 1–2. 1 – Part of male copulatory system of *Stagnicola fuscus* (C. Pfeiffer), mrp – penis retractor muscle, prp – preaputium, psh – penis sheath. Scale = 1 mm. Orig. L. Beran. 2 – Cross section of prostate of *S. fuscus*. Scale = 1 mm. Orig. L. Beran.

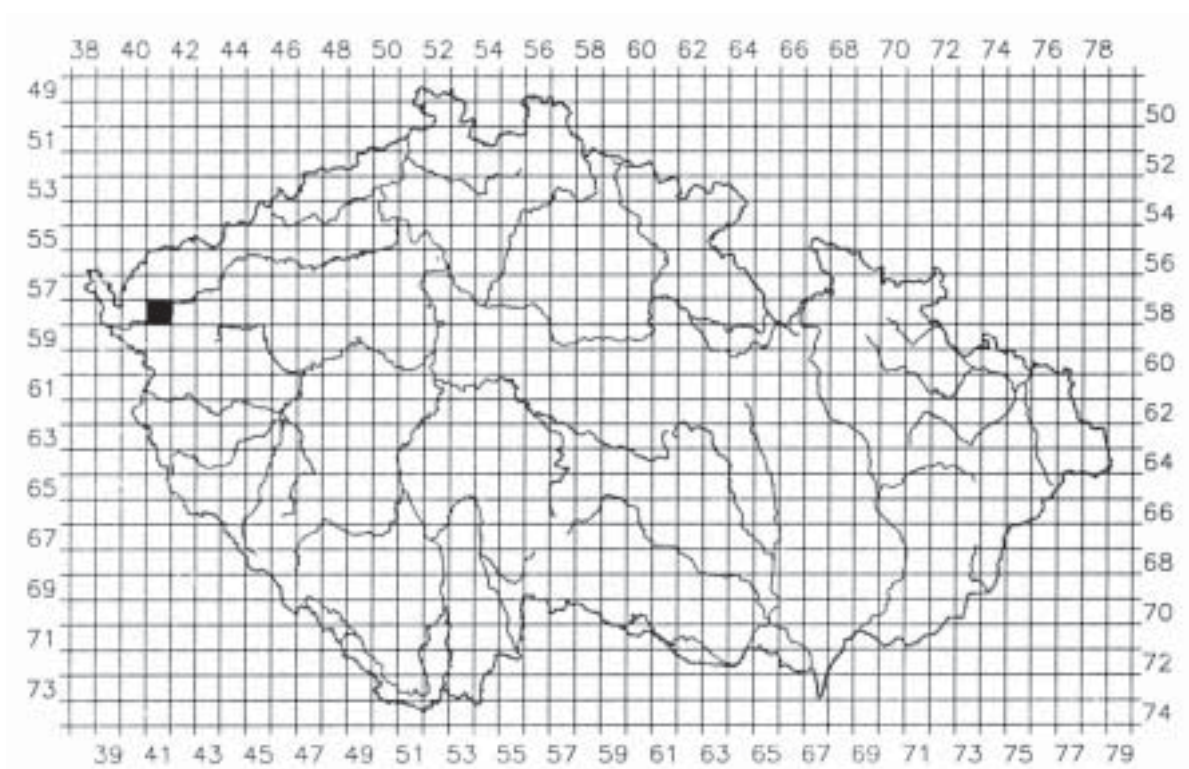


Fig. 3. Known distribution of *Stagnicola fuscus* (C. Pfeiffer) in the Czech Republic.

RESULTS

Only three species of *Stagnicola palustris* (O. F. Müller, 1774) species complex were recorded from the Czech Republic until now: *S. occultus*, *S. turricula* and *S. corvus*. Species *S. occultus* has been known from the Czech Republic only from one (Hudec & Brabenec 1966), recently probably not existing locality (Beran 1998). Both other species are relatively widespread and common in the Czech Republic (Beran 1998). The author have dissected hundreds specimens from more than 100 localities until 2001, but all specimens belong to *S. turricula* and *S. corvus*, except the record described below. First specimens of *S. fuscus* were identified by the author in the sample from the oxbow of the Ohře River at north-western border of the Kynšperk nad Ohří (Western Bohemia, code of mapping square 5841 [see Buchar 1982, for details], July 6, 2000, lgt. L. Beran) and from the oxbow of the Ohře River near railway between Kynšperk nad Ohří and Chlum Svaté Máří (Western Bohemia, 5841, July 6, 2000, lgt. L. Beran). Conchs of these specimens remind conchs of *S. turricula*, but dissection showed pertinence to *S. fuscus*. This finding is first documented occurrence of *S. fuscus* in the Czech Republic.

REFERENCES

- BERAN L. 1998: *Vodní měkkýši ČR. Metodika Českého svazu ochránců přírody č. 17 [Aquatic molluscs of the Czech Republic. Methodics of the Czech Union for Nature Conservation No. 17]*. Vlašim: ZO ČSOP Vlašim, 113 pp (in Czech).
- BUCHAR J. 1982: Publication of faunistic data from Czechoslovakia. *Věst. Čs. Společ. Zool.* **46**: 317–318.
- HUDEC V. & BRABENEC J. 1966: Neue Erkenntnisse die Schnecken der Gesamtart *Galba palustris* (Müll., 1774) aus der Tschechoslowakei. *Fol. Parasitol.* **13**: 132–143.
- JACKIEWICZ M. 1993: Phylogeny and Relationships within the European Species of the Family Lymnaeidae. *Fol. Malacol.* **5**: 61–95.