

## New records of *Gyraulus rossmaessleri* (Gastropoda: Planorbidae) in the Czech Republic

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BERAN L., 2005: New records of *Gyraulus rossmaessleri* (Gastropoda: Planorbidae) in the Czech Republic. – Malacologica Bohemoslovaca 4: 3–4. Online serial at <<http://mollusca.sav.sk>> 30-June-2005.

Populations of the freshwater snail *Gyraulus rossmaessleri* (Auerswald, 1852) (Gastropoda, Planorbidae) were found at 4 sites in the Meandry Smědé Nature Reserve (Northern Bohemia, Czech Republic). In Bohemia this species has not been found for last 25 years and the nearest localities with its known occurrence in the past are situated about 100 km to the south-west.

### Introduction

*Gyraulus rossmaessleri* (Auerswald, 1852) is according to MEIER-BROOK (1983) an European species with very restricted Central European range but GLÖER (2002) mentioned holarctic distribution. In comparison with other species of genus *Gyraulus* this gastropod inhabits especially temporary pools and wetlands. Conchs of *G. rossmaessleri* are often similar to non-angled conchs of *G. acronicus* (A. Férussac, 1807) and dissection is useful and often necessary for determination.

### Distribution in the Czech Republic

*Gyraulus rossmaessleri* is mentioned from the Czech Republic for the first time in MÁCHA (1963) from Silesia. Revision of material in different collections (National Museum of Prague, private collection of P. Kuchař – owner L.R. Kolouch) showed that this species occurred in the past also in North-Western Bohemia and in Eastern Bohemia (BERAN 2002). New sites with occurrence of this species in the Litovelské Pomoraví Protected Landscape Area (Central Moravia) mentioned BERAN (2000). Recently it is known from the Litovelské Pomoraví PLA (Central Moravia), Poodří PLA, Ostrava surroundings, Opava surroundings (all Silesia) (BERAN 2002). Distribution of this gastropod in the Czech

Republic in different periods is shown in BERAN (2002).

*G. rossmaessleri* in the Czech Republic inhabits different types of temporary wetlands – alder carrs, swamps overgrown with *Glyceria* spp., *Carex* spp., small temporary pools or canals in floodplain forest or meadows. All these types of wetlands are endangered especially outside of protected sites by different human activities (e.g., river regulation, soil draining).

### New records

New sites with occurrence of *G. rossmaessleri* were found in the Meandry Smědé Nature Reserve (Northern Bohemia) near Czech – Poland border in 2004. These new sites are mentioned below. Data are as follows – geographical coordinates, code of the mapping field for faunistic grid mapping (cf. PRUNER & MÍKA 1996), name of the nearest settlement, description of the site, altitude, name of finder, number of collected individuals, date of investigation): 50°59'18" N, 15°01'42" E, 5056, Filipovka, temporary ditch near border of Meandry Smědé NR 400 m from the railway station Filipovka, 235 m, L. Beran, 6 ex., 25 April 2004; 50°59'06" N, 15°01'24" E, 5056, Filipovka, sedge marsh 10 m outside of the Meandry Smědé NR

about 500 m from the railway station Filipovka, 235 m, L. Beran, 10 ex., 25 April 2004; 50°59'08" N, 15°01'34" E, 5056, Filipovka, 5056, swamp in the Meandry Smědé NR near ditch 600 m to the south from the railway station Filipovka, 235 m, L. Beran, 3 ex., 25 April 2004; 50°59'06" N, 15°01'36" E, 5056, Filipovka, ditch about 100 m before its inflow to the Smědá River in the Meandry Smědé NR, 235 m, L. Beran, 4 ex., 1 January 2004. Dissection of selected specimen confirmed the previous determination according conchs.

At mentioned localities *G. rossmaessleri* was found together with *Galba truncatula* (O.F. Müller, 1774), *Aplexa hypnorum* (Linnaeus, 1758), *Anisus leucostoma* (Millet, 1813), *Pisidium obtusale* (Lamarck, 1818), and *P. casertanum* (Poli, 1791).

In Bohemia this species has not been found for last 25 years and the nearest localities with its known occurrence more than 25 years ago are situated about 100 km to the south-west.

### References

BERAN L., 2000: Aquatic molluscs (Gastropoda, Bivalvia) of the Litovelské Pomoraví Protected Landscape Area. – Acta Universitatis Palackianae Olomucensis, Biologica, 38: 17–28.

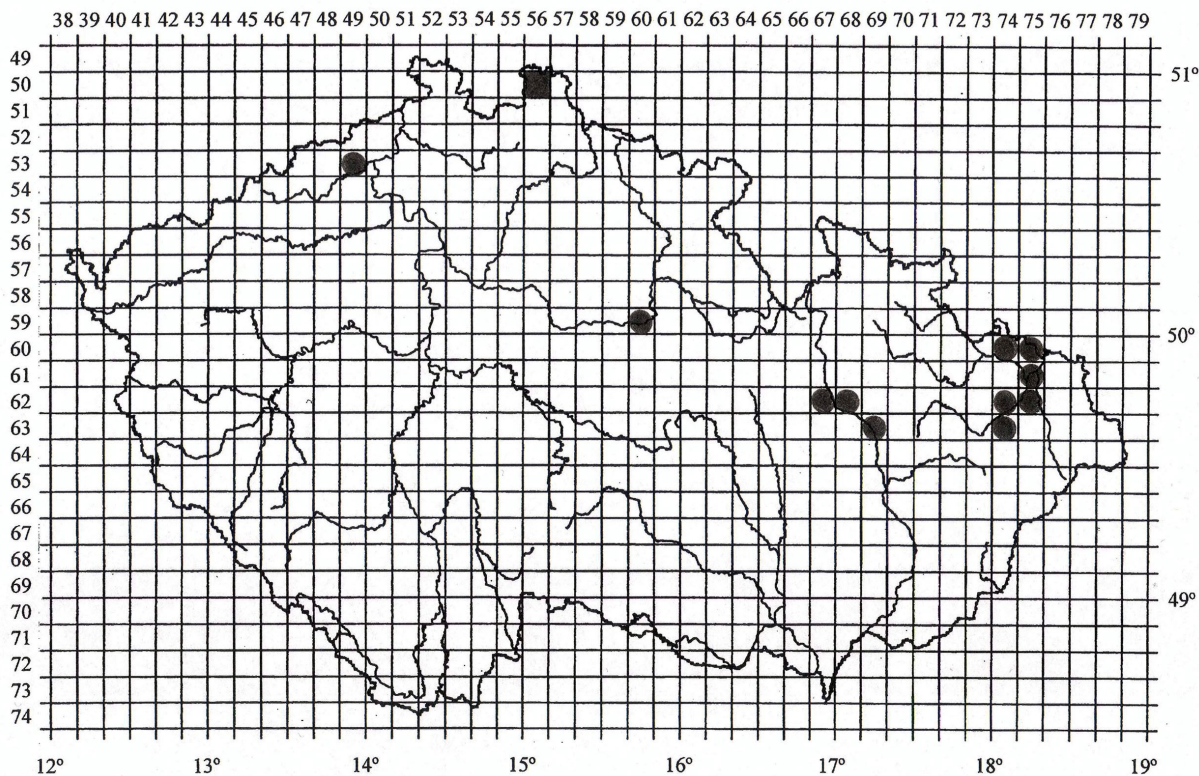
BERAN L., 2002: Vodní měkkýši České republiky – rozšíření a jeho změny, stanoviště, šíření, ohrožení a ochrana, červený seznam [Aquatic molluscs of the Czech Republic – distribution and its changes, habitats, dispersal, threat and protection, Red List]. – Sborník přírodovědného klubu v Uh. Hradišti, Supplementum 10, 258 pp.

GLÖER P., 2002: Süßwassergastropoden Nord- und Mitteleuropas. – ConchBooks, Hackenheim, 327 pp.

MÁCHA S., 1963: Nové poznatky o malakofauně Hlučínské pahorkatiny [Neue Kenntnisse von der Wiechtierfauna des Hultschiner Hügellandes]. – Acta musei Silesiae, Series A, Opava, 12: 85–99.

MEIER-BROOK C., 1983: Taxonomic studies on *Gyraulus* (Gastropoda: Planorbidae). – Malacologia, 24 (1–2): 1–113.

PRUNER L. & MÍKA P., 1996: Seznam obcí a jejich částí v České republice s čísly mapových polí pro síťové mapování fauny [List of settlements in the Czech Republic with associated map field codes for faunistic grid mapping system]. – Klapekiana, 32, Suppl.: 1–175.



**Fig. 1.** The map for faunistic grid mapping with the known distribution of *Gyraulus rossmaessleri* in the Czech Republic. Full circle – adopted from BERAN (2002), full mapping field – new records mentioned above.