

Truncatellina rothi (REINHARDT, 1916) (Gastropoda: Truncatellinae) – a New Species for the Bulgarian Malacofauna

Atanas A. Irikov

University of Plovdiv, 24 Tsar Assen Str., 4000 Plovdiv, Bulgaria; e-mail: irikov@uni-plovdiv.bg

Abstract: The species *Truncatellina rothi* (REINHARDT, 1916) is reported for first time in Bulgaria. Description of the shell, data for the locality and habitat in Western Rhodopes Mts. and general pervasion of the species are presented there. Photos of the shells of all *Truncatellina* species known from the territory of Bulgaria are presented.

Key words: *Truncatellina rothi*, Bulgarian fauna, Western Rhodopes, first record, diagnostics

Truncatellina rothi (REINHARDT, 1916)

(Fig. 1a-d)

Isthmia rothi: REINHARDT, 1916 (Greece: circa Athenes).

Truncatellina rothi: MAASSEN, 1984 (Greece: Xanti).

Description (Fig. 1a). The shell is blunt-cylindrical, dark horn-brown, with open and rounded navel; the navel is slightly covered by the collumelar end of the aperture; the shell is with 6 whorls separated by deep suture; they are more protruding in comparison with *Truncatellina cylindrica* (FÉRUSAC, 1807) (Fig. 1b). The embryonic whorls are smoothly and grow up sharply to the second whorl, the next ones are with identical diameter (the last whorl is not larger); the shell is with massive, sharp and regular ribs; the spaces between ribs wide as much as the ribs; the aperture is rounded, slightly higher than wide, without lamellas (folds) and teeth; the aperture end is quite widened out with faint concavity.

Measurements. H=1.2-1.9 mm, diameter 0.8-0.9 mm. The shell height varies very much in various localities, but the diameter almost not (WELTER-SCHULTES 1998).

Locality. The species occur in Bulgaria in island habitats in the region of rock bridges ‘Chudnite Mostove’ in Western Rhodopes Mts. at about 1500 m altitude. The animals live on limestone rocks with various vegeta-

tion, moss and ferns, in soil alluvium and litter, under rosettes, among the roots of plants and in rock rifts.

Material studied. Four specimens, 2.08.2004, leg. A. Irikov; the material is treasure up in the author’s personal collection (3 specimens) and in the collection of Bulgarian Malacological Society (BG – 4000 Plovdiv, 2 Todor Samodumov Str.) (1 specimen).

By reason of island-distribution of the species localities this species possible will be find in the future in other places in Bulgaria too.

Distribution out of Bulgaria. Turkey – Villaet Antalya: Larastrand, Villaet Isparta: Bademli, Villaet Afyon: Dinar; Su Çikan, Villaet IÇel: Silifke, Villaet Adana: Kozan, Villaet Hatay: Antakya, MagaraÇik (SCHUT 1996); Greece, in Pelopones and some islands in Aegean Sea (Gávdos S of Kríti, Lefkáda near Kaligoni); Albania (WELTER-SCHULTES 1998).

Habitat. In the base of plants on limestone rocks, under decaying parts of plants and under the stones.

Conchiological *Truncatellina rothi* clearly differs from the rest three species from the Genus, which occur in Bulgaria (Fig. 1a-d) – *T. cylindrica* (J. FÉRUSAC, 1807), *T. claustralis* (GREDLER, 1856) and *T. costulata* (NILSSON, 1822).

Some more considerable differences and distinguishing features are as follow: the whorls of shell are with comparatively large diameter and strongly protruding; the middle and the last whorls are with identical diameters; the shell with large, sharp and regular ribs; the space between ribs wide as much as the ribs; the aperture without lamellas and teeth; the aperture end is quite widened out.

Truncatellina callicratis (SCACCHI, 1833) is reported by DAMJANOV, LIKHAREV (1975) as *Truncatellina strobili* (GREDLER, 1856) for north areas of the Rhodopes Mts., but the authors do not indicate concrete finds and documented data about investigated original material are missing. The photo of the shell represented by DAMJANOV, LIKHAREV (1975) is not of original material from Bulgaria either. IRIKOV and MOLLOV (2006) accept that the species does not occur in the Rhodopes Mts. by reason of missing exact data for localities and investigated original material till now as well as the authors never find

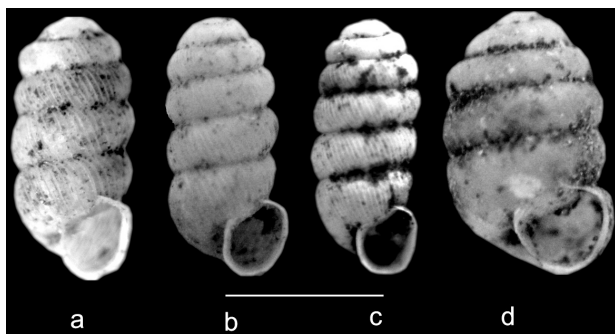


Fig. 1a-d. Species of Genus *Truncatellina* LÖWE 1852 from Bulgaria (scale 1 mm): a) *Truncatellina rothi* (REINHARDT, 1916), b) *Truncatellina cylindrica* (J. FÉRUSSAC, 1807), c) *Truncatellina claustralis* (GREDLER, 1856), *Truncatellina costulata* (NILSSON, 1822). Photo by A. Irikov.

shells of this species in the region notwithstanding the multifold and detailed investigations. The present report confirm the opinion of IRIKOV, MOLLOV (2006) and accept that *T. callicratis* is not valid for Rhodopes Mts. and respective for Bulgaria until finding of certain data disproved this conception.

References

- DAMJANOV S., I. LIKHAREV 1975. Fauna of Bulgaria, Gastropoda terrestria. Sofia, Bulgarian Academy of Science, vol. IV: 425 p. (In Bulgarian).
- IRIKOV A., I. MOLLOV 2006. Terrestrial gastropods fauna (Mollusca: Gastropoda) of the Western Rhodopes Mountain (Bulgaria). – In: Beron P. (ed.): Biodiversity of Bulgaria. Biodiversity of Western Rhodopes (Bulgaria and Greece), 753-832.
- MAASSEN W. 1984. Enkele Vidplaatsen van Mollusken in Noord Griekenland. – *De Kreukel*, Diemen, **20** (2): 23-34.
- REINHARDT O. 1916. Einige Bemerkungen über *Pupa minutissima* und Verwandte. – *Nachrichtsblatt der Deutschen Malakozologischen Gesellschaft*, Frankfurt am Main, **48** (4): 158-167.
- SCHUT H. 1996. Landschnecken der Türkei. – *Acta biologica Benrodis*. Supplementband. Solingen, Verl. Natur und Wissenschaft, 4: 1-497.
- WELTER-SCHULTES F. 1998. Die Landschnecken der griechischen Insel Gávdos, der südlichsten Insel Europas. – *Schriften zur Malakozoologie*, Cismar/Ostholstein, **12**: 1-120.

Received: 07.02.2008
Accepted: 27.10.2008

Truncatellina rothi (REINHARDT, 1916) (Gastropoda: Truncatellininae) – нов вид за българската малакофауна

A. Ириков

(Резюме)

Съобщава се за първото намиране на *Truncatellina rothi* (REINHARDT, 1916) в България. Представени са описание на черупката, данни за хабитата в новия локалитет в Западни Родопи и общо разпространение на вида. Представени са снимки на всички валидни за България видове от род *Truncatellina* LÖWE, 1852.