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ISSN-0005-6219

The paper in this journal meets the guidelines for permanence and durability of the Committee on Production Guidelines for Book Longevity of the Council on Library Resources.

Printed by Hicaz Takım, Zwolle, The Netherlands

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On a new subspecies of
*Metafruticicola (Rothifruticicola) nicosiana* from Crete
(Gastropoda, Pulmonata, Hygromiidae)

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A new subspecies from Crete is described. This taxon is affiliated to the polytypic *Metafruticicola (Rothifruticicola) nicosiana*. It fills a distribution gap of this species in the centre of Crete.

Key words: Gastropoda, Hygromiidae, *Metafruticicola*, taxonomy, Greece, Crete.

**Introduction**

The genus *Metafruticicola* von Ihering, 1892, was recently revised by Bank et al. (2013). Among the species treated was the polytypic *Metafruticicola (Rothifruticicola) nicosiana* (Mousson, 1854), which is currently known to live in the southern part of the Aegean, i.e. *M. (R.) n. nicosiana* (Cyprus), *M. (R.) n. claudia* Bank & Welter-Schultes, 1998 (Gavdos and Gavdopoula), *M. (R.) n. freytagi* (von Maltzan, 1883) (western part of Crete), *M. (R.) n. maasseni* Bank, Gittenberger & Neubert, 2013 (eastern part of Crete), *M. (R.) n. conciliatrix* Fuchs & Käufel, 1936 (Karpathos) and *M. (R.) n. soror* Fuchs & Käufel, 1936 (Rhodos) (Bank et al. 2013, figs 93, 94). The distribution pattern of the subspecies on Crete shows a large gap between the western subspecies *freytagi* and the eastern subspecies *maasseni*. This gap of more than 100 km length (as the crow flies, Fig. 1) is, however, inhabited by a number of other *Metafruticicola* species like for example the widespread *Metafruticicola (Westerlundia) noverca* (L. Pfeffer, 1853). Recently, another subspecies of *M. (R.) nicosiana* was collected by the second author in the centre of that distributional gap, and is subsequently described here.

Fig. 1. Distribution pattern of *Metafruticicola (Rothifruticicola) nicosiana* subspecies on Crete and surrounding area. *M. (R.) n. freytagi* (triangles); *M. (R.) n. claudia* (diamonds); *M. (R.) n. maasseni* (stars); *M. (R.) n. viglensis* n. ssp. (circle)
Type locality. – Greece, S Crete, Nom. Irakliou, W Asterousia Mountains, small group of rock boulders about 1.4 km E of Pigaidakia beside the road to Mt. Ghria Vigla, 34.9873°N 24.8659°E, 510 m NN. The type locality is situated on the SW slope of Mt. Ghria Vigla about 1.0 km from the summit.

Description. – Shell small, depressed with slightly raised spire, horny brown with a conspicuous bright spiral band on the periphery of the shell. Protoconch of 1.5 whors, covered by a dense sculpture of wrinkles; teleoconch of 4 well rounded whors. Complete shell covered by a dense sculpture of large and evenly dispersed granules occurring even in the umbilicus, usually arranged on low and inconspicuous axial ribs. Suture of medium depth; last whorl slightly descending below the periphery of the preceding whorl with the upper part of the peristome slightly expanding and inclined. Aperture broadly oval, with a strong internal lip, indicated on the shell surface as a bright yellow stripe; peristome white, enlarged, sharp, broadly flared, partly covering the umbilicus. Umbilicus narrowly open, last whorl slightly eccentric.

Shell height 6.9 mm; shell diameter 9.3 mm; peristome height 5.3 mm; peristome diameter 4.8 mm; 5 whors.

Etymology. – The new subspecies is named after Mount Ghria Vigla (657 m) in the western Asterousia Mountains. On its SW slope M. nicosiana vigilensis sub-spec. nov. was found.

Distribution. – The new subspecies is only known from a single specimen from the type locality. Although the genus Metafruticicola in Crete is quite well known, the new subspecies has hitherto been over-looked. We estimate that its distribution probably covers only a small range in the western Asterousia mountains.

Remarks. – The new subspecies has a shell size like M. (R.) n. freytagi (Fig. 2), but it differs from that subspecies by its much denser teleoconch sculpture of granules, absence of ribs on the teleoconch, and the more open umbilicus. The shell of M. (R.) n. maasseni (Fig. 5) is larger, its granules are much smaller and less numerous, and the umbilicus is partly covered by the columellar reflection of the peristome. In M. (R.) n. claudia (Fig. 4) the shell is larger, the umbilicus is narrower and shaped like a bore-hole, and the last whorl declines much deeper under the periphery. It seems that the new subspecies is closely related to the latter subspecies, which is only known from the two small islands Gavdos and Gavdopoula south of Crete in the Libyan Sea.

At the type locality only few other mollusc species were found, all in very low numbers, viz. Albinaria corrugata corrugata (Bruguière, 1792), Albinaria terebra (L. Pfeiffer, 1853), Xerocrassa mesostena (Westerrlund, 1879) and Xerotricha conspurcata (Draparnaud, 1801). Metafruticicola sublecta (von Maltzan, 1884) and M. noverca (L. Pfeiffer, 1853) should live in the same region (Bank et al. 2013: 77, 108, 127), but were not found at the type locality.

References


